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Annual Report of the University, 1963-1964

University of New Mexico

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FOREWORD

As president of the University, I hereby submit the report of the University of New Mexico for the 1963-64 academic year. As is traditional, the report will not be confined strictly to the 12-month period ended June 30, 1964, but will also be concerned with continuing developments of significance to the institution and the state.

During the year, the University celebrated the Seventy-Fifth Anniversary of its founding by the Territorial Legislature. This year, marking a milestone in the history of the institution, was in itself a time for attaining old goals and for making new beginnings. In the Seventy-Fifth Year the University saw:

its School of Medicine begin operations, opening a new and long-needed service for New Mexico;
the beginning of a new era of sharply increasing demands for higher education in our state;
an encouraging demonstration by the citizens of New Mexico, in a bond issue election, of their determination to meet these demands;
substantial progress in physical and financial planning for a record-breaking building program;
a heartening increase in interest and support shown by the University alumni;
continued dramatic growth of the University program in graduate education.

Following sections of this report will provide additional information relative to these and other developments in University affairs. A much more detailed analysis of the year's operations may be found in the annual reports prepared by the various academic and administrative departments which are kept on file for reference.
THE ANNIVERSARY YEAR

The University of New Mexico reached its 75th birthday on February 28, 1964. As the date approached, the University had just absorbed a 10 per cent enrollment increase and was anticipating an even larger gain in the autumn ahead. Because of this situation, it was decided that special efforts to commemorate the anniversary should be devoted to preparing for the future and not to celebrating the past. All operations of the Anniversary Year were placed under the direction of a 20-member executive committee composed of faculty members, students, administrators, and alumni, with the regents of the University represented. Before the year had ended, 259 persons had served on various subcommittees of this organization.

The Anniversary was opened with the only purely celebrative event of the year—a General Convocation attended by representatives of 223 universities and learned societies. At this convocation, the University awarded the first New Mexico Medal for distinguished service to the state and the nation to U.S. Senator Clinton P. Anderson. The creation of such an award had been recommended by the Anniversary Executive Committee and approved by the Regents of the University. Its purpose is to honor, in the name of the University and the people of New Mexico, persons associated with our state who have earned national or international recognition for their contributions to society. The faculty, administration and regents felt that such recognition was both deserved and overdue for Senator Anderson.

Space here will allow only brief mention of a few of the highlights of the yearlong Anniversary observance. These included:

The new College of Education Center was dedicated by Governor Jack M. Campbell, followed by a three-day conference concerned with the evolving role of education in a changing world;
a yearlong series of lectures on "New Thinking About the Cold War" brought ten internationally recognized authorities on various Cold War problems to the campus for public addresses and informal discussion with students:

dedication of the Fine Arts Center began a month-long series of public lectures, plays, concerts and art exhibits—including the "Art Since 1889" exhibition which drew record-breaking crowds to the University Gallery and provided the first public showing in New Mexico of many of the great masters of modern art movements:

a three-day conference on "Aerospace Frontiers in New Mexico" brought together officials of various space and atomic installations in the state with faculty and engineering students of UNM and other New Mexico schools:

a conference on "Uses of Literature" in today's society featured addresses by British and American literary authorities.

In addition to these and many other events of cultural and educational importance, action by the Anniversary Executive Committee resulted in several permanent campus improvements and continuing programs.
THE ENROLLMENT BOOM

When the Territorial Legislature founded the University of New Mexico 75 years ago, it decreed that the new institution "shall provide the inhabitants of the state of New Mexico with the means of acquiring a thorough knowledge of the various branches of literature, science and arts." The responsibility given the University by that legislative mandate has never been heavier than it is today.

In September, 1963, the University absorbed an enrollment increase of 9.3 per cent, with the number of students registered for credit growing from 8,612 to 9,494. In September, 1964, University enrollment climbed to 10,723, representing an increase of 12.9 per cent. Thus in two years the size of the student body has increased by more than 2,000. Next fall, another 1,300 or more will be added. Since some 300,000 students are currently attending New Mexico elementary and secondary schools it seems absolutely safe to predict that the University enrollment boom is only beginning. It seems equally safe to predict that the student body will number more than 15,000 by 1966 and will reach the 20,000 level early in the 1970's.

In part, this dramatic trend is simply a reflection of the great increase in birthrate and the general growth of New Mexico which followed World War II. But other important factors are also involved and these underline the heavy responsibilities of the University.
Freshman admissions in recent years have increased at a rate substantially outpacing the growth in New Mexico high school graduating classes. This is true because more young New Mexicans are becoming aware that their prospects for success in our complex economy depend more and more upon the quality of their education. As the Commission on Statewide Higher Education Problems pointed out in its 1964 report, it is also true that the future economic development of New Mexico depends heavily on the quality of higher education these young citizens receive. As this commission of laymen stated: "Because the dividend can be so great we must not only support higher education but be absolutely certain our product is good."

Thus the University has a responsibility to do more than somehow crowd these students into classrooms. It should, in the face of the enrollment crisis, continue to improve the quality of its academic programs. This the University is determined to do.

Registration records of the past year show that 82 per cent of the students are New Mexico residents, with all 32 counties well represented. The remaining 18 per cent is made up of residents of the other 49 states and the District of Columbia and foreign students representing 69 nations.
To meet pressing needs for an expanded physical plant, the University completed plans in the past year for the greatest building program in its history. A detailed inventory was made of space available in existing buildings. These figures were compared to current and projected needs. From this comparison, a priority list of building projects with an estimated cost of about $20,000,000 was developed.

At the same time, the Regents of the University were laying the financial foundation for this expansion program. The Budget Committee, under the chairmanship of Thomas R. Roberts, evolved a plan under which bonded indebtedness of the University has been refunded through a new $23,500,000 bond issue. Revenue from sale of the new issue will retire some $15,500,000 in bonds previously outstanding and make available approximately $8,000,000 in building funds. The new issue will be retired from income now pledged to the previous bonds.

To these funds, the University will add its allocation from the $8,000,000 state bond issue authorized by the voters in the 1964 general election. It will also use funds available from savings and from federal and private grants. The resulting building program will increase the University plant valuation by at least 50 per cent. And yet it will fall far short of meeting needs unless additional financing can be provided by the state.

At the close of the 1963-64 academic year, the list of building projects needed immediately by the University included the following:

Graduate Research Building

Now under construction. This 41,156 square foot addition to the Physics and Astronomy building will be completed at the end of 1965. It will provide critically needed laboratories and some offices, classrooms and seminar rooms. Contract cost was $349,000, which included equipment worth $103,000.

Zimmerman Library Addition

Now under construction, with completion scheduled in 1966. The $1,769,685 contract includes a three-story and basement wing of 105,165 square feet, approximately doubling central library space. Application has been filed for a $770,000 federal grant under Public Law 88-204.

Concert Hall

Now under construction. This addition to the Fine Arts Center will provide the finest facility for musical and cultural events in New Mexico and meet a long-time need of the University and the state. Seating capacity will be 2,080 and the cost $2,100,000.
Basic Medical Science Building
Scheduled for bid-opening by late 1965 at an estimated cost of $5,500,000. The structure will be among the largest on the campus. It will house classroom, laboratory, and administrative facilities of the School of Medicine. Approximately $3,500,000 of the cost will be covered by private and federal grants, with the remainder to be financed through savings and medical research revenues.

College of Business Administration
Tentatively scheduled for contracting by mid-1965. The project represents the first phase of a major academic structure to be erected on the north end of old Zimmerman field adjoining the library. It will include some 62,500 square feet and will house the College of Business Administration, the Bureau of Business Research, the Data Processing Center, and 30 offices of social science faculty members. The instructional wing will include 37 classrooms, ranging in capacity from 30 to 150 seats. Cost is estimated at $1,452,000.

Student Infirmary
This badly needed facility for student health services is in the advanced stage of planning. It would consist of a wing added to Mesa Vista Dormitory, a building which eventually will be converted for administrative uses.

Biology Building Addition
Tentatively scheduled for contracting by mid-1965. Planned as a wing addition to the existing Biology building, the project will include 60,836 square feet and house 17 teaching laboratories, 16 research laboratories, 18 laboratory-offices, five animal and stock rooms, a greenhouse and environmental chamber, and an assortment of offices and classrooms. The estimated cost of $2,242,000 includes major remodeling of the Biology Building.

College of Engineering Center
The center will provide 62,100 square feet of space to meet College of Engineering needs for teaching laboratories, faculty and administrative space, and facilities for a large, and growing, volume of research supported by grants and contracts. Application has been made for a $300,000 National Science Foundation grant, which would leave $1,987,000 of the $2,297,000 estimated cost to be provided before the project can be contracted.

Science-Engineering Classroom Building
This structure would supply a 600-seat lecture hall and 11 large classrooms for use by all departments of the College of Engineering. Estimated total cost is $544,000, including equipment. Application has been made for $182,000 of federal funds under the Educational Facilities Act.

Chemistry Building Addition
The new chemistry wing would virtually triple the space now available for the Department of Chemistry, providing an additional 41,715 square feet largely devoted to laboratories. Estimated cost is $1,556,000. Applications have been made for a $307,000 Education Facilities grant, and a $394,000 National Science Foundation allocation.

Department of Psychology Building
The project, a 33,000 square feet building, to be constructed on Yale south of Zimmerman Library, would include teaching research laboratories, auxiliary instructional facilities, and administrative and faculty offices. Cost is estimated at $1,070,000. Prospects appear good for National Science Foundation and National Institutes of Health grants totaling $250,000.

Despite the progress the University will make in building the months ahead, it does not now seem possible to fully meet expansion requirements. Each of the building projects listed represents a serious and immediate need, a need which must be met if the University is to carry out its responsibilities to the state. The number of these projects which can be let to contract will depend in part on fund allocation requests still outstanding. But even if all these requests are granted, resources fall considerably short of the amount required. As has been emphasized previously in these annual reports, the University must be provided additional funds for capital improvements.

OTHER PROJECTS
Construction is currently progressing on Santa Ana and Alvarado dormitories, each with the capacity of 184 students. Both will be ready for occupancy by September, 1965. Another much larger dormitory is being planned for construction at the southeast corner of the Central Campus, a site now occupied by the University baseball diamond. Like all University dormitories, this high-rise building
KEY
A. Zimmerman Library addition
B. Basic Medical Science Building
C. Graduate Research Center
D. Concert Hall
E. Student Infirmary
F. Chemistry Addition
G. Biology Addition
H. College of Engineering Center and Science-Engineering Classroom Building
I. College of Business Administration and Psychology Building.
J. Santa Ana and Alvarado Dormitories
will be self-financing, with construction costs repaid from rental revenues. Another self-financing project which will soon be under construction is an 18-hole University golf course located on the South Campus not far from University Stadium. Condemnation of a strip of land through the present North Campus golf course for an Albuquerque flood control channel, combined with the need for a North Campus site for the School of Medicine building, dictated an early move of this facility. Plans call for relocating the baseball diamond and various practice fields on the South Campus by the autumn of 1965, thus clearing Central Campus sites for academic and student housing uses.

CAMPUS BEAUTIFICATION

As part of its long-range planning, the University two years ago adopted a blueprint for landscaping the campus. Despite a shortage of funds for this purpose some progress was made during the past year in implementing this plan. More progress is anticipated during the current academic year.

In the season ahead, it is hoped that Redondo Drive can be built from Stanford Avenue to Yale, opening another section of this circular route which will eventually provide the only vehicular traffic arterial of the campus. Plans also call for installing a new parking area adjoining Lomas Boulevard and for paving of Campus Boulevard to serve this lot.

It may also prove possible to let a contract on the first major phase of the landscaping blueprint—a project to convert Ash Street to an attractive pedestrian mall between Mesa Vista Dormitory and Yale Boulevard. The street, a principal walkway between classes, has been closed to vehicles for two years.

THE GRADUATE SCHOOL

The past year brought continuation of a trend which is rapidly, and we believe inevitably, changing the character of the University of New Mexico. Growth of the Graduate School once again substantially outpaced the general enrollment increase.

In the fall semester of 1964, a total of 1,962 students were enrolled for advanced study. Thus, while general enrollment was climbing 12.9 per cent, graduate enrollment gained 17.2 per cent.

The trend is neither new nor unexpected. For the past ten years the number of students working toward masters and doctoral degrees has increased at a rate double that of the general growth of the University. This development is the natural outgrowth of changes in the New Mexico economy which have involved our state deeply in the so-called "think and theory" business.

The responsibility for educating scientists equipped to man this growing industry falls heavily on the University of New Mexico and poses a serious financial problem. The problem can be understood only by understanding some of the differences between undergraduate and advanced education. This difference is made clear by considering a single student of electrical engineering. As an undergraduate candidate for a bachelor's degree, he attended classes and lectures which ranged in size from 30 to 600. In addition to his texts, his reading requirements called for him to use from 25 to 30 books in the University library—all of them standard and relatively inexpensive volumes. He worked in large teaching laboratories where a single instructor can assist scores of students. Here his equipment was basic and again relatively inexpensive. But as a candidate for a doctor of science degree in electrical engineering his situation is entirely different. Now the classes he attends are very small and highly specialized. Many are seminars, small round-table discussion groups. He has moved now from the teaching laboratory to a research laboratory where he must work alone, with individual attention from faculty members. The library books and materials he now needs range into the hundreds, largely in highly technical fields. Before he receives his doctoral degree, this student must not only have a command of the available knowledge of his specialty but must also have made his own significant contribution to this body of knowledge.

When the case of this one student is considered, it is easy to understand why the comparative cost of teaching him is some five times higher as a doctoral candidate than it was when he was a sophomore engineering student. When one considers that today the University of New Mexico has 177 such students working on advanced degrees in electrical engineering alone, of whom 43 are working at the doctoral level, it is equally easy to understand why the University's need for a realistic basis of state support for the graduate program has become desperate.

The University is no longer able to underwrite the additional cost of the graduate program through economies at the undergraduate level. The rapid increase in the proportion of graduate students to undergraduates makes such an approach increasingly impossible. In the past year, 345 of the 1,132 degrees awarded by the University were at the masters or doctoral level. At the moment, 17.7 per cent of the student body is enrolled in Graduate School. This compares with a national average announced by the U.S. Office of Education of 8 per cent. Only nine of the 97 state and land grant universities have a higher percentage of graduate students. Their average is 13.3 per cent.

If the University of New Mexico is to meet its responsibilities at the graduate level—and the economic future of New Mexico dictates that it should meet this responsibility—it is absolutely essential that the state provide financial support for the program.
GRADUATE ENROLLMENT TO TOTAL ENROLLMENT

The University of New Mexico

97 United States Universities

U.N.M. National Rank... 10th

Among Southwestern, Rocky Mountain and Pacific Coast Universities

U.N.M. Ranks 2nd in Percent of Graduate Enrollment
The University is able to report continued progress in its efforts to expand and improve the faculty. Since the enrollment boom confronting the University is also occurring across the nation, competition for scholars and scientists competent to teach at the university level has become increasingly severe. During the past year, our faculty lost several valuable people who left to take positions at substantially higher salaries. To replace these losses and to increase personnel to meet growing needs, the University added 81 full-time faculty members for the current academic year. Their quality is high in terms of both educational credentials and academic reputation. Of this list, 55 hold, or will soon receive, their doctoral degrees. Most of the others are experienced specialists in technical and professional fields ranging from surgical nursing to lithography. They come to the University from all parts of the United States and from European and South American universities. Many have already established solid reputations for research and scholarship. Others are young men and women at the beginning of promising careers. In sum, they represent progress in efforts of the University to offer excellence in higher education.

The University faculty now includes 319 on the full-time teaching list, plus 52 deans and department chairmen and 122 part-time teachers recruited largely from the scientific and professional talent of the area. Another 22 faculty members are currently on leave. A year ago, the University listed 282 full-time faculty, 48 deans and department chairmen, and 68 part-time teachers, with 16 on leave.

Several factors are involved in the University's success in faculty recruiting. One of these is an improvement the University was able to make in salaries during the past year, an adjustment which brought the pay of experienced full professors more in line with schedules at similar universities in neighboring states. Another helpful factor is the University's growing academic prestige and still another is the expanding research program which offers these men and women an opportunity for self-improvement in their fields. In addition, the atmosphere of academic freedom which the people of New Mexico have made it possible for the University to offer is an important attraction for those who wish to work and to teach in a climate of free inquiry. One of the more important projects completed by the faculty and the regents in the past year was the drafting and adoption of a complete new policy in this area—a policy we believe could serve as a national model.

The faculty salary increases put into effect in the past year brought the schedule at the University approximately in line with national averages for public universities of comparable size. It should be pointed out, however, that the faculty itself made these average salaries possible by carrying far more than the average load. Nationally, the student-faculty ratio in universities is approximately 14 to 1. At UNM, that ratio is 21 to 1. The University of New Mexico is able to set a pay scale on the national par only because its faculty members are willing and able to produce about a third more student credit hours than the normal quota. They do so by giving up their leisure time and at the expense of full opportunity for research.
STUDENT FACULTY RATIO
AVERAGE STUDENT CREDIT
HOUR PER FACULTY

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- FACULTY WITH LESS THAN MASTERS DEGREES
- FACULTY WITH DOCTORAL DEGREES
RESEARCH PROGRAM

The general growth of the University in the past year was more than matched by the continuing increase in sponsored research activities. At the year end, research contracts and grants held by the University amounted to $3,877,052. Faculty members of 18 academic departments and divisions were engaged in 97 projects sponsored by 16 different federal agencies, by the State Highway Department and State Planning Department, and by various private companies and organizations. Reimbursements for sponsored research in the 1963-64 academic year totaled $2,168,704, an increase of 16.3 per cent from the previous year.

A glance at the list of these projects provides a hint of the breadth of activity at a modern university. They range from research on highway fill, culvert design and flexible pavements through tumor-virus studies and heart research to measurements of atmospheric ozone and examination of the transfer of energy within molecules. They involve tracing the biological distribution of radioisotopes, mapping radar echoes from the moon and the use of sediment layers in rock to establish a pattern of ancient climatic cycles. They involve such subjects as education problems among New Mexico Indians, human performance studies, theoretical work to advance the science of mathematics, development of low-cost electronic computers and communication between submerged submarines.

The research program has become an important source of income for the University, but this is not the real source of its importance. Its real importance lies in enrichment of the academic program, in the opportunity it gives faculty members to improve their knowledge of their fields and in the exposure of large numbers of students—particularly those at the graduate level—to science and scholarship in action. Teaching is the primary purpose of the University, and the faculty can teach best while it is itself learning.

The 97 projects sponsored by agencies outside the University represent only part of the picture. Virtually all members of the faculty are engaged in research. In the past academic year, faculty members wrote 31 books which ranged from textbooks to volumes of literary criticism, and 256 articles published in a wide variety of journals.
MEDICAL EDUCATION

Four years ago, the Liaison Committee of Medical Education, which represents both the American Medical Association and the Association of American Medical Colleges, issued a report expressing concern over a serious and worsening shortage of physicians in the Western States. The report noted that this problem was most severe in New Mexico with only 60.8 practicing physicians per 100,000 people—the lowest ratio in the West and one of the lowest in the nation.

Today the University is able to report concrete action to relieve this shortage. The University of New Mexico School of Medicine is now in operation. The first class of 24 freshmen is pursuing its studies, 14 physicians are enrolled in a post-graduate residency program in medicine, residency programs have been organized in surgery and pathology, and members of the faculty are involved in continuing education work with local medical societies around the state.

Investigations into the motives of physicians in selection of the state in which they will practice medicine reveal that the mere existence of a school of medicine is a major attraction. These surveys also indicate that physicians frequently remain in the state where they take their post-graduate residency training. When these two factors are added to the consideration that the University School of Medicine will more than double the opportunity of New Mexico youth to win admission to medical school it seems apparent that our state has taken an extremely significant step toward solving one of its crucial problems.

The first freshman class was selected from a group of 252 students who completed formal applications—a fact which gives some index to the heavy demand for medical education. These 24 posted scores on the Medical College Admission Tests which averaged above the 70th percentile on a national basis. Thus, the University School of Medicine begins operations with a student body of substantially more than the average aptitude. We believe we can also claim unsurpassed quality in medical faculty.
The relationship between the School of Medicine and both the Bernalillo County-Indian Hospital and the Veterans Administration Hospital continues with increasing realization of mutual benefits. Development of additional space for patient care and research has been accomplished at both hospitals. A contractual arrangement has been negotiated whereby the School of Medicine has assumed responsibility for professional services in pathology and radiology at BC-I as well as for professional, educational and research programs. An excellent working arrangement has also been reached with the Veterans Hospital, where research laboratories have been established for the study of certain aspects of pulmonary diseases and cytogenetics. The hospital remodeled its research area to install a special animal laboratory needed in the program.

The Library of Medical Sciences merged the 6,000-volume library of the Bernalillo County Medical Association with its own growing collection during the year into a mechanized operation based on an IBM equipment system. At the end of the academic period, some 16,000 volumes were cataloged, with delivery pending on an additional 10,000. The automated library system has aroused considerable interest and has attracted visitors from such universities as Harvard, Columbia and Rutgers. The library was assisted during the year with several substantial gifts, including a 2,500-volume contribution from the American College of Surgeons.

**SERVICE**

Progress was made during the year in making educational facilities of the University available to more New Mexicans. During the year, more than 70,000 persons were served in one of the various programs of the Division of Extension, Summer Session and Community Services and many thousands more through the facilities of the educational television station on the University campus.

Television Station KNME-TV, which the University operates as a cooperative venture with the Albuquerque Public Schools and the State Department of Education, played an increasing important role in New Mexico education during the year. Its award-winning programs in science and music were a regular part of the study plan in almost 3,000 classrooms, reaching an estimated 90,000 students and comprising a regular feature of the curriculum of some 60 of New Mexico’s 90 school districts.

The station also continued its telecasting of courses in beginning and advanced conversational Spanish and of public service programming of special interest to New Mexico audiences.

The diverse activities of the Department of Extension, Summer Session and Community Services continued to show a pattern of growth, although some programs are beginning to feel the pinch of overcrowded facilities.

Enrollment in off-campus extension courses at Los
Alamos, Holloman Air Force Base, Gallup, Los Lunas, Santa Fe, Socorro, the West Mesa Air Force Station and the Quito Institute totaled 1,354 for the year, with another 1,288 attending a series of seminars in the sciences held at Cloudcroft. The Quito Institute, in which 54 teachers of Spanish spend the summer studying the language in Ecuador, has proved a valuable addition to extension offerings.

The number of persons at work on 75 University correspondence courses during the year was 1,576, an increase of 236 from the previous year. All but five New Mexico counties were represented in the list of students.

University Community College operations underwent adjustments to meet changing vocational needs and public demand. Eleven new courses were offered during the year in the non-credit evening school program. Enrollment was 2,321.

Attendance at conferences, training classes and similar activities of two-or-more-days duration held on the campus during the year totaled 22,561 persons, an increase of more than 3,000. Unfortunately, increased use of facilities for regular instructional purposes is beginning to seriously limit continuing education programs on the campus. In the past year, these events ranged from short courses for motor fleet supervisors, music teachers, and air pollution authorities to conferences of book collectors, pavement engineers and church leaders.

PUBLIC AND ALUMNI SUPPORT

The past months have produced encouraging indications that the willingness of the general public to support higher education in New Mexico has kept pace with increased demands for educational institutions. The general election of November 4, 1964, provided the most impressive display of this support in the history of our state. A dramatic upturn in interest shown by alumni in the University and its affairs has been equally heartening.

In the election, the taxpayers of New Mexico voted by an overwhelming margin of 91,896 to 36,655 to impose a levy upon their property to finance an $8,000,000 college building bond issue. While the amount represented only a small percentage of building needs of the colleges and universities, a trend apparent in the election results is encouraging. The bond issue was approved by 72.1 per cent of those voting, compared to 65.7 per cent registered in favor of a similar 1960 bond issue and 59.6 per cent voting for such bonds in 1956. It should also be noted that in 1964, all 32 counties voted in favor of the bonds. Four years earlier, seven counties had disapproved, and in 1954, eleven counties were in the opposition column.
The Greater UNM Fund, founded by the Alumni Association only the previous year, provided an impressive index to the growth in alumni support. At the end of its first 12 months of operations, Dr. Albert G. Simms II, chairman of the Fund Board of Directors, was able to report a 133 per cent increase in donors to the University and a 330 per cent gain of unrestricted gifts. Even more impressive, individual alumni participation in financial support of the University increased 465 per cent.

The alumni program made it possible to finance additional scholarships. It provided allocations for purchase of a library of early American fiction, electroshock equipment for the College of Pharmacy, vacuum gauging apparatus for the Electrical Engineering solid state laboratory, equipment for the geochemistry trace element laboratory, and important additions to microfilm files. Fund grants also provided money for guest lecturers and other "margin of excellence" purposes.

The number of alumni contributing soared from 189 in the previous year to 1,067, while cash donations from alumni sources rose from $7,039 to $25,776. Support from other friends of the University also grew. A year earlier, 398 persons in this category donated $8,929. For the past year, 634 donors contributed $22,868 in cash. In addition, 110 business firms made cash contributions of $63,903 through the Fund, $66,191 was received from organizations, and receipts from foundations and gifts from estates and miscellaneous sources totaled $223,246. In all, cash gifts reported by the Greater UNM Fund totaled $401,984, an amount which does not include many valuable gifts of books, museum materials and other property.

The Association conducted many other successful programs. It brought members of the New Mexico Legislature to the campus for an on-the-spot look at University facilities. It expanded its High School Achievement Awards program and presented prizes to 62 outstanding seniors in 31 New Mexico communities. It stepped up its campaign to interest graduating UNM seniors in alumni activities, and members of the Alumni Advisory Committee provided valuable counsel to the University administration on several important policy questions.

CHANGES IN THE ADMINISTRATION

George M. Boyden was appointed Assistant Dean of the School of Medicine as of July 1, 1964.

Henry P. Weihofen was named Acting Dean of the School of Law for 1964-65.

Morris S. Hendrickson, Acting Dean of the Col-
College of Arts and Sciences during 1963-64, was appointed Acting Dean of the Graduate School for the 1964-65 academic year.

Margaret Nolte, Assistant Dean of Women, was named Associate Dean of Women as of December 16, 1963.

G. Ward Fenley, Director of Public Information, and Anthony G. Hillerman, Administrative Assistant, were named Director and Associate Director, respectively, of the newly created Office of Information and Publications.

David T. Benedetti, Associate Professor of Psychology, was appointed director of the Peace Corps Training Center as of July 1, 1964. Marshall R. Nason, who had earlier served as director of the Center, resigned to devote his full time to teaching in the Department of Modern and Classical Languages.

Eleanor B. Adams, Research Associate in History, was given additional duties as editor of the New Mexico Historical Review as of 1964-65, replacing Frank D. Reeve who retired in June, 1964.

Albert E. Utton, Assistant Professor of Law, was given additional duties as Assistant to the Dean of the School of Law as of 1964-65.

Administrative appointments made between January and June, 1964, were as follows: Jack A. Cairns, Supervisor of Campus Security; James M. Etherton, Director of Non-Academic Personnel; and Joe D. Harris, Assistant Comptroller.

Other appointments, effective with the 1964-65 academic year were: Robert M. Ellis, Assistant Director of the University Art Gallery; Edward B. T. Glass, Assistant to the University Architect; Jack M. McCabe, University Physician; John C. McClure, Assistant Director for Educational Placement; Bobby J. Poole, Personnel Coordinator for Men’s Housing; and Ian L. Shand, University Physician, who received additional duties as Assistant Director of the Student Health Service.

In the University Libraries, the following 1964-65 professional appointments were made: In Zimmerman Library, Donald L. Foster, Cataloger, replaced Lillian S. Pankratz who retired; Benny L. Johnston, Assistant Acquisitions Librarian; and Elaine Keebler, Cataloger. In the Library of the Medical Sciences, Louise Small replaced Mollie Sittner as Assistant Librarian.

NECROLOGY

Since last year’s report, the University has lost by death one active member of its staff. William Jackson Parish, Dean of the Graduate School and Professor of Business Administration and formerly Dean of the College of Business Administration, died on May 4, 1964.

Respectfully submitted,
Tom L. Popejoy, President

REVENUE SOURCES . . . . 63-64 ACADEMIC YEAR

<table>
<thead>
<tr>
<th>Source</th>
<th>Amount</th>
<th>Per Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Appropriation</td>
<td>$6,122,521</td>
<td>34.55</td>
</tr>
<tr>
<td>Tuition and Fees</td>
<td>$2,417,905</td>
<td>13.64</td>
</tr>
<tr>
<td>Endowment and Land Income</td>
<td>$434,080</td>
<td>2.45</td>
</tr>
<tr>
<td>Auxiliary Enterprises</td>
<td>$3,924,099</td>
<td>22.24</td>
</tr>
<tr>
<td>Federal Grants</td>
<td>$3,623,784</td>
<td>20.49</td>
</tr>
<tr>
<td>Private Gifts and Grants</td>
<td>$100,000</td>
<td>00.56</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>$1,067,373</td>
<td>6.04</td>
</tr>
</tbody>
</table>
Activities of the College of Arts and Sciences for the academic year 1963-64 are summarized in this report under four main headings: Students, Faculty, Work of the College in Teaching, and Work of the College in Research. A few projections and needs for the future are included at the end.

I. STUDENTS

The number of students enrolled as bachelor degree candidates again increased sharply in both semesters, although the Semester II increase was considerably less than in the last two years.

<table>
<thead>
<tr>
<th>Year</th>
<th>Sem. I</th>
<th>% Inc. Over Prev. Year</th>
<th>Sem. II</th>
<th>% Inc. Over Prev. Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1958-59</td>
<td>831</td>
<td>-2.9</td>
<td>771</td>
<td>-2.8</td>
</tr>
<tr>
<td>1959-60</td>
<td>757</td>
<td>-8.9</td>
<td>758</td>
<td>-1.7</td>
</tr>
<tr>
<td>1960-61</td>
<td>810</td>
<td>7.0</td>
<td>813</td>
<td>7.3</td>
</tr>
<tr>
<td>1961-62</td>
<td>920</td>
<td>13.6</td>
<td>963</td>
<td>18.5</td>
</tr>
<tr>
<td>1962-63</td>
<td>1,059</td>
<td>15.1</td>
<td>1,136</td>
<td>18.0</td>
</tr>
<tr>
<td>1963-64</td>
<td>1,270</td>
<td>19.9</td>
<td>1,296</td>
<td>14.1</td>
</tr>
</tbody>
</table>

In the past five years the second semester enrollments have increased by 68.1%, an average increase of 11%. If this trend were to continue, the enrollment in 1970 would be 2,680 and in 1975 would be 4,507.

The number of graduates took an unexplainably large jump—almost 31%.
Bachelor's Degrees Awarded (A&S only)

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Degrees</th>
<th>% Increase Over Previous Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1959</td>
<td>191</td>
<td></td>
</tr>
<tr>
<td>1960</td>
<td>190</td>
<td>-0.5</td>
</tr>
<tr>
<td>1961</td>
<td>214</td>
<td>12.6</td>
</tr>
<tr>
<td>1962</td>
<td>223</td>
<td>4.2</td>
</tr>
<tr>
<td>1963</td>
<td>230</td>
<td>3.1</td>
</tr>
<tr>
<td>1964</td>
<td>301</td>
<td>30.9</td>
</tr>
</tbody>
</table>

An additional 80 students were granted bachelor's degrees in Education in 1964 with majors in Arts and Sciences departments.

Graduate enrollments increased appreciably and the total number of advanced degrees also increased, although there was a decrease in the number of doctorates and the total number was less than in 1962.

Advanced Degrees Awarded (A&S only)

<table>
<thead>
<tr>
<th>Year</th>
<th>Master's</th>
<th>Doctor's</th>
</tr>
</thead>
<tbody>
<tr>
<td>1959</td>
<td>51</td>
<td>13</td>
</tr>
<tr>
<td>1960</td>
<td>57</td>
<td>7</td>
</tr>
<tr>
<td>1961</td>
<td>72</td>
<td>17</td>
</tr>
<tr>
<td>1962</td>
<td>74</td>
<td>21</td>
</tr>
<tr>
<td>1963</td>
<td>58</td>
<td>18</td>
</tr>
<tr>
<td>1964</td>
<td>76</td>
<td>14</td>
</tr>
</tbody>
</table>

If Master of Arts in Teaching and Master of Education in Science degrees awarded to students in institutes for teachers of Spanish, mathematics, and science are included, the totals for master's degrees in the last four years are 84, 92, 110, and 109 respectively.

As usual, the performance of the students enrolled in the College varied from very poor to very good. Overall, the performance was about the same, with fewer bad students but also
fewer excellent ones on a proportional basis. Both the number and proportion of those on probation were lower than last year, while the proportion of those released from probation was slightly lower.

### Comparative Suspension and Probation Figures

<table>
<thead>
<tr>
<th>Semester I</th>
<th>1961-62</th>
<th>1962-63</th>
<th>1963-64</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>%</td>
<td>No.</td>
<td>%</td>
</tr>
<tr>
<td>Probation</td>
<td>87</td>
<td>9.3</td>
<td>109</td>
</tr>
<tr>
<td>Suspended</td>
<td>21</td>
<td>2.3</td>
<td>14</td>
</tr>
<tr>
<td>Released from Prob</td>
<td>15</td>
<td>1.6</td>
<td>25</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester II</th>
<th>1961-62</th>
<th>1962-63</th>
<th>1963-64</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>%</td>
<td>No.</td>
<td>%</td>
</tr>
<tr>
<td>Probation</td>
<td>97</td>
<td>10.0</td>
<td>119</td>
</tr>
<tr>
<td>Suspended</td>
<td>27</td>
<td>2.8</td>
<td>25</td>
</tr>
<tr>
<td>Released from Prob</td>
<td>14</td>
<td>1.5</td>
<td>27</td>
</tr>
</tbody>
</table>

In contrast to last year, the number of students on the dean's list was higher than last year during Semester I but lower in Semester II, but the proportion was considerably lower both semesters.

### Students on Dean's List

<table>
<thead>
<tr>
<th>Grade Average</th>
<th>1962-1963</th>
<th></th>
<th>1963-1964</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Semester I</td>
<td>Semester II</td>
<td>Semester I</td>
<td>Semester II</td>
</tr>
<tr>
<td></td>
<td>No. %</td>
<td>No. %</td>
<td>No. %</td>
<td>No. %</td>
</tr>
<tr>
<td>4.00</td>
<td>16 1.5</td>
<td>16 1.4</td>
<td>9 0.7</td>
<td>11 0.9</td>
</tr>
<tr>
<td>3.5 - 3.99</td>
<td>57 5.4</td>
<td>63 5.5</td>
<td>54 4.2</td>
<td>74 5.7</td>
</tr>
<tr>
<td>3.0 - 3.49</td>
<td>90 8.5</td>
<td>175 15.4</td>
<td>128 10.1</td>
<td>149 11.5</td>
</tr>
<tr>
<td>TOTALS</td>
<td>163 15.4</td>
<td>254 22.4</td>
<td>191 15.0</td>
<td>234 18.1</td>
</tr>
</tbody>
</table>

Another index of academic achievement of the students is their performance on the Graduate Record Examination. The most recent study by A. A. Wellick, Director of Counseling and
Testing, shows that the median scaled scores of graduating seniors were 0-40 points above the 1954-63 medians on the three area tests, with the best performance being in the humanities. As compared with 1963, performance increased in humanities but decreased in both social sciences and sciences.

**Median GRE Scores of A&S Seniors**

<table>
<thead>
<tr>
<th></th>
<th>1963</th>
<th>1954-63</th>
<th>1964</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Science</td>
<td>535</td>
<td>500</td>
<td>520</td>
</tr>
<tr>
<td>Humanities</td>
<td>525</td>
<td>500</td>
<td>540</td>
</tr>
<tr>
<td>Natural Science</td>
<td>540</td>
<td>530</td>
<td>530</td>
</tr>
</tbody>
</table>

Compared with seniors in other colleges, A&S seniors ranked first in Humanities, second to Business Administration seniors by 30 points in the Social Sciences, and third behind Engineering and Pharmacy in the Natural Sciences.

**Median GRE Scores of Seniors in Highest Colleges, 1964**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A&amp;S</td>
<td>520</td>
<td>540</td>
<td>530</td>
</tr>
<tr>
<td>Bus. Admin.</td>
<td>550</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engineering</td>
<td></td>
<td>500</td>
<td>580</td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pharmacy</td>
<td></td>
<td></td>
<td>560</td>
</tr>
</tbody>
</table>

Among many honors awarded to members of the 1964 graduating class, the following are particularly notable.

**Final Undergraduate Honors (A&S only)**

- Honors in General Studies: 15
- Departmental Honors: 5
- Graduation with Distinction: 19
- Election to Phi Kappa Phi: 23
- Woodrow Wilson fellowships: 4
II. FACULTY

In the fall of 1963 the faculty of the College totalled 346 men and women, including part-time instructors and graduate and teaching assistants. Their distribution is shown in the table below:

<table>
<thead>
<tr>
<th></th>
<th>Full-Time</th>
<th>Part-Time</th>
<th>Assistants</th>
<th>On Leave</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size of the College Faculty, Semester I, 1963-64</td>
<td>143</td>
<td>47</td>
<td>148</td>
<td>8</td>
<td>346</td>
</tr>
</tbody>
</table>

The total increased by 27 or 8.5% but there was actually a decrease of two in the number of full-time teachers. The two largest departments, English and mathematics, had 60 and 44 staff members respectively. Average department size was just over 20.

ADMINISTRATIVE CHANGES

One of the veteran chairmen, W. W. (Nibs) HILL, who had been chairman of the department of anthropology for 17 years, asked to be relieved of his administrative responsibilities in order to have more time for research and writing. Professor Hill took his doctorate at Yale and first came to the University in 1937. He has maintained the anthropology department as one of the better known on the campus. Professor Hill will be succeeded as chairman by John Campbell, a former student here, who is presently at George Washington University.

MORRIS S. HENDRICKSON, acting as dean of the College of Arts and Sciences this year and chairman of the mathematics
department for the past ten years, requested to be relieved as chairman of that department. Professor Hendrickson received his doctorate at Ohio State University, taught there and at Bowling Green State University before the war and came to the University in 1946 immediately after his discharge from the Army Air Force. He will continue as a part-time professor of mathematics and as acting dean of the Graduate School. He will be replaced as chairman by JULIUS BLUM, who is acting chairman now.

MARSHALL NASON, who has been director of the Peace Corps, is returning to the department of modern and classical languages as a full time professor.

DAVID BENEDETTI, associate professor of Psychology, has been named as the new director of the Peace Corps. Professor Benedetti is a former student at the University of New Mexico who first started teaching here in 1947. He received his Ph. D. from the University of Colorado in 1952 and is a specialist in abnormal psychology.

PROMOTIONS IN RANK

1. From Associate Professor to Professor:

   ERNEST BAUGHMAN (English). Professor Baughman has been at the University since 1948. He received his Ph. D. from Indiana and specializes in the field of folklore. His recent book, The Types and Motifs of the Folktales of England and North America, may well turn out to be the definitive work in this field.

   FREDERICK CHREIST (Speech). Professor Chreist came to the University in 1947 as an assistant professor. He received his Ph. D. from Northwestern University and is a specialist in speech therapy. His speech clinic is well known over the state and has helped hundreds of children with speech handicaps. His recently published book, Foreign Accent, promises to be a real contribution to the literature in the field of speech correction.
J. PAUL FITZSIMMONS (Geology). Professor Fitzsimmons has been at the University since 1949 when he received his Ph. D. from the University of Washington. Professor Fitzsimmons is a specialist in petrology and has been spending a major part of his time recently in translating Russian books and articles on geology into English.

MARSHALL NASON (Modern and Classical Languages). Professor Nason came to the University in 1947 as an instructor. He received his Ph. D. from the University of Chicago. His major interest is in Spanish-American literature. For the past two years he has been director of the Peace Corps and has recently resigned to devote his full time to teaching and research.

2. From Assistant Professor to Associate Professor:

EDITH BUCHANAN (English). Miss Buchanan has been at the University since 1955. She received her Ph. D. from Duke University and prior to coming here was an instructor at the University of Colorado. She is generally recognized by both students and faculty as being one of the best teachers on the campus.

WILLIAM MARTIN (Biology). Professor Martin received his Ph. D. from Indiana University in 1958 and came directly from there to the University of New Mexico. He is a botanist and has made a significant contribution to the department through his work in collecting, identifying, and classifying items for the herbarium which he has turned into a fine research collection.

YI-FU TUAN (Geography). Professor Tuan received his Ph. D. from the University of California at Berkeley in 1957 and has been at the University since 1959. He is particularly interested in world climates but shows a great depth of scholarship both inside and outside his field, and he is in great demand by other departments for special lectures.

SEPARATIONS FROM THE FACULTY

There was only one retirement from the faculty at the end of this year, but he was one of our really senior citizens and will be sorely missed. MATTHEW PEARCE, professor of English, has been at the University for 37 years, having first come here in 1927. From 1939 through 1952 he was chairman of the English department. He is a specialist in medieval literature and has published widely in this field.
Seven members of the faculty resigned to accept positions elsewhere or for other reasons.

MARIA BULLARD, instructor in English, resigned to accept a position at the new branch of St. John's College being built in Santa Fe.

JACK GRAVLEE, assistant professor of speech, has accepted an associate professorship at Alabama Polytechnic Institute.

IGNACE KOLODNER, professor of Mathematics, has been named chairman of the mathematics department at Carnegie Institute of Technology. At the University since 1956, Professor Kolodner was to a large extent responsible for getting the doctoral program in mathematics started.

FRANCISCO PEREZ, instructor in modern languages, is leaving to accept a position at Parsons College, Fairfield, Iowa.

SILVIANO SANTIAGO, instructor in modern languages, is resigning to return to his home in Brazil.

WALTER SCHOENHOLZ, assistant professor of biology, has resigned to accept a similar position at the University of Illinois.

MARGARET SMITH, assistant professor of psychology, has resigned to accept a position in industrial psychology at the University of Akron.

**ADDITIONS TO THE FACULTY**

Twenty-three new full-time appointments were made to the faculty for 1964-65. The securing of staff is becoming more and more difficult, and many more offers were made and refused. The English department, in particular, had extremely poor luck in its search for additional staff.

**Anthropology**

JOHN M. CAMPBELL, associate professor and chairman of the department. Currently at George Washington University and a former student at the University of New Mexico, Professor Campbell received his Ph. - D. from Yale and is a specialist in Arctic archæology.
Biology

CLIFFORD S. CRAWFORD, assistant professor (Ph. D., Washington State University), is a specialist in entomology and is currently teaching at Oregon State University.

Chemistry

MIRIAM MALM, instructor (M.S., UNM, 1964). Mrs. Malm will be responsible for the demonstration laboratories.

Economics

ALFRED PARKER, assistant professor (Ph. D., Ohio State, 1963). Professor Parker's primary interest is in the area of money and banking.

English

JANE BALTZELL, assistant professor (B.A., Pembroke College; B.A. and M.A., Cambridge; M.A., University of California, Ph. D. expected). Miss Baltzell is currently at Sandia Corporation and is a specialist in the medieval period.

DONALD KING, instructor (B.A. and M.A., University of Colorado). Mr. King has been a teaching assistant here for two years.

JESSIE MORRIS, instructor (M.A., University of Connecticut). Mrs. Morris has been a teaching assistant in the department for three years.

Government

HARRY STUMPF, assistant professor (Ph. D., Northwestern University). Professor Stumpf is currently at Colorado State University and is a specialist in American government and constitutional law.

UNJA LEE, instructor. Miss Lee, a Korean, is working on her doctoral degree at Berkeley and is a specialist in governments and politics of the Far East.

History

FRANK C. STUART, visiting assistant professor (Ph. D., UNM, 1964.)

Mathematics and Statistics

MELVIN KATZ, associate professor (Ph. D., University of California). Professor Katz is currently at the University of Chicago and is a specialist in statistics.

LAMBERT KOOPMANS, visiting associate professor (Ph. D., University of California). Professor Koopmans is currently at Sandia Corporation and is a statistician. He is replacing James Abbott, who is on leave.

NATHANIEL FRIEDMAN, assistant professor (Ph. D., Brown University). Professor Friedman is a specialist in real variables.
RUBEN HERSHEY, assistant professor (Ph. D., New York Univ.). Professor Hersh is presently at Stanford and is a specialist in differential equations.

IRVIN LYNN, assistant professor (Ph. D., Purdue University). Professor Lynn is a topologist.

**Modern and Classical Languages**

JULIAN E. WHITE, assistant professor (Ph. D., University of North Carolina). Professor White will teach French and is currently at Mary Baldwin College.

ROBERT E. HOLZAPFEL, assistant professor (Ph. D., State University of Iowa). Professor Holzapfel, who is just completing his degree, will teach German.

TAMARA HOLZAPFEL, assistant professor (Ph. D., State University of Iowa). Mrs. Holzapfel, a native born Russian, will teach Russian and Spanish.

**Physics and Astronomy**

A. G. DAVIS PHILIP, assistant professor of astronomy (Ph.D., Case Institute of Technology).

JOHN LEE HOWARTH, associate professor (Ph. D., University of London). Professor Howarth is a specialist in biophysics.

**Psychology**

JOHN RHODES, associate professor (Ph. D., University of Southern California). Professor Rhodes is currently at the Brain Research Institute at UCLA and is a specialist in physiological psychology.

**Sociology**

HAROLD C. MEIER, assistant professor (Ph. D., University of Colorado). Professor Meier is currently at the University of California at Santa Barbara and his field is general sociology.

**Speech**

ROBERT HALLE, instructor (M.A., University of Oregon). Mr. Halle is a specialist in public address and forensics and will be director of forensics.

Some of the difficulty in securing new staff may be deduced from the fact that as of this date there are sixteen authorized but unfilled full-time positions in the College.
III. WORK OF THE COLLEGE IN TEACHING

One of the most accurate measures of the teaching done by the various divisions within the University is the number of student credit hours taught. Although this measure gives a false picture of the work done by the science and engineering departments, it is still probably the best single measure of teaching load. The total in the College of Arts and Sciences was 10.51% greater than the previous year and for the tenth year in a row, with one exception, the College grew faster than the University. The table below shows the student credit hours taught by the University and the College of Arts and Sciences for a ten year period and the percentage of total teaching done by the College.

<table>
<thead>
<tr>
<th>YEAR</th>
<th>UNM SCH</th>
<th>A&amp;S SCH</th>
<th>A&amp;S per cent of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1953-54</td>
<td>92,201</td>
<td>59,100</td>
<td>64.10'</td>
</tr>
<tr>
<td>1954-55</td>
<td>104,959</td>
<td>67,569</td>
<td>64.38</td>
</tr>
<tr>
<td>1955-56</td>
<td>114,300</td>
<td>75,440</td>
<td>66.00</td>
</tr>
<tr>
<td>1956-57</td>
<td>127,738</td>
<td>85,919</td>
<td>68.04</td>
</tr>
<tr>
<td>1957-58</td>
<td>139,584</td>
<td>92,356</td>
<td>66.17</td>
</tr>
<tr>
<td>1958-59</td>
<td>146,525</td>
<td>96,983</td>
<td>66.19</td>
</tr>
<tr>
<td>1959-60</td>
<td>154,052</td>
<td>103,087</td>
<td>66.92</td>
</tr>
<tr>
<td>1960-61</td>
<td>163,117</td>
<td>111,105</td>
<td>68.11</td>
</tr>
<tr>
<td>1961-62</td>
<td>176,970</td>
<td>120,569</td>
<td>68.13</td>
</tr>
<tr>
<td>1962-63</td>
<td>192,884</td>
<td>132,393</td>
<td>68.64</td>
</tr>
<tr>
<td>1963-64</td>
<td>212,968</td>
<td>146,301</td>
<td>68.70</td>
</tr>
</tbody>
</table>

If the trend in the ratio shown in the last column above were to continue, the A&S College would teach about 73% of all the credit hours taught in 1975. This fact would seem to indicate that serious thought should be given to splitting the College into two parts, one containing mathematics and the
sciences and the other containing the humanities and social sciences. This division is now common in many of the major universities. With such a split, each of the separate parts would still teach more than twice as many credit hours as any other college.

Within the College, teaching loads ranged from 648 in journalism to 24,908 in English. The table below shows the trend of enrollments over the past five years.

**STUDENT CREDIT HOURS BY DEPARTMENTS**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Anth.</td>
<td>4,070</td>
<td>4,392</td>
<td>5,550</td>
<td>6,620</td>
<td>7,615</td>
<td>7,945</td>
<td>95%</td>
<td></td>
</tr>
<tr>
<td>Biol.</td>
<td>7,761</td>
<td>8,217</td>
<td>8,621</td>
<td>10,930</td>
<td>12,132</td>
<td>13,485</td>
<td>74%</td>
<td></td>
</tr>
<tr>
<td>Chem.</td>
<td>7,146</td>
<td>7,238</td>
<td>7,517</td>
<td>7,654</td>
<td>8,133</td>
<td>8,953</td>
<td>25%</td>
<td></td>
</tr>
<tr>
<td>Econ.</td>
<td>3,405</td>
<td>3,957</td>
<td>4,362</td>
<td>4,226</td>
<td>5,203</td>
<td>5,424</td>
<td>59%</td>
<td></td>
</tr>
<tr>
<td>Engl.</td>
<td>16,595</td>
<td>16,837</td>
<td>17,912</td>
<td>19,549</td>
<td>21,922</td>
<td>24,908</td>
<td>50%</td>
<td></td>
</tr>
<tr>
<td>Geog.</td>
<td>1,020</td>
<td>1,468</td>
<td>1,411</td>
<td>1,517</td>
<td>2,188</td>
<td>2,833</td>
<td>178%</td>
<td></td>
</tr>
<tr>
<td>Geol.</td>
<td>4,356</td>
<td>3,703</td>
<td>3,506</td>
<td>4,543</td>
<td>4,945</td>
<td>5,464</td>
<td>25%</td>
<td></td>
</tr>
<tr>
<td>Govt.</td>
<td>3,829</td>
<td>3,214</td>
<td>3,990</td>
<td>4,600</td>
<td>4,486</td>
<td>5,058</td>
<td>32%</td>
<td></td>
</tr>
<tr>
<td>Hist.</td>
<td>8,307</td>
<td>9,756</td>
<td>11,068</td>
<td>11,995</td>
<td>12,044</td>
<td>13,830</td>
<td>66%</td>
<td></td>
</tr>
<tr>
<td>Journ.</td>
<td>583</td>
<td>540</td>
<td>559</td>
<td>555</td>
<td>569</td>
<td>648</td>
<td>11%</td>
<td></td>
</tr>
<tr>
<td>Math.</td>
<td>12,654*</td>
<td>14,121*</td>
<td>14,482*</td>
<td>14,906</td>
<td>15,438</td>
<td>17,068</td>
<td>35%</td>
<td></td>
</tr>
<tr>
<td>M&amp;CL</td>
<td>7,961</td>
<td>8,787</td>
<td>10,440</td>
<td>12,331</td>
<td>13,791</td>
<td>14,423</td>
<td>81%</td>
<td></td>
</tr>
<tr>
<td>Phil.</td>
<td>2,194</td>
<td>2,451</td>
<td>2,524</td>
<td>3,513</td>
<td>3,027</td>
<td>3,178</td>
<td>45%</td>
<td></td>
</tr>
<tr>
<td>Phys.</td>
<td>4,451</td>
<td>5,213</td>
<td>5,184</td>
<td>4,973</td>
<td>5,539</td>
<td>6,058</td>
<td>36%</td>
<td></td>
</tr>
<tr>
<td>Psych.</td>
<td>5,959</td>
<td>6,471</td>
<td>6,900</td>
<td>7,047</td>
<td>8,630</td>
<td>9,658</td>
<td>62%</td>
<td></td>
</tr>
<tr>
<td>Socio.</td>
<td>1,755</td>
<td>2,238</td>
<td>2,290</td>
<td>2,567</td>
<td>3,538</td>
<td>3,891</td>
<td>122%</td>
<td></td>
</tr>
<tr>
<td>Spch.</td>
<td>2,146</td>
<td>2,153</td>
<td>2,583</td>
<td>3,043</td>
<td>3,193</td>
<td>3,477</td>
<td>62%</td>
<td></td>
</tr>
</tbody>
</table>

* Math. 2 credit omitted to make figures comparable with 1961-64

The percentage increases in mathematics and physics are somewhat misleading, since astronomy has been shifted from the mathematics department to the physics department. There were 543 SCH taught in astronomy in 1963-64. If these are removed
from physics and added to mathematics, the five-year percentage increases become 39% for mathematics and 24% for physics.

The most rapid growth has clearly been in the social science fields. Four out of five of these have grown faster than the College average. Among the humanities, modern and classical languages and history have grown the fastest, while among the sciences, biology and psychology lead the way.

There is very little correlation between the number of student credit hours taught by a department and the number of graduating seniors from that department. This situation is caused primarily by the fact that most of the largest departments, such as English, mathematics, and modern languages, are primarily service departments.

The table on the following page shows the number of students awarded baccalaureate and advanced degrees in the departmental and interdepartmental curricula offered by the College for the last three years. Students with double majors are counted for both departments, so the totals do not agree with those on page 2.
<table>
<thead>
<tr>
<th>Department</th>
<th>B.A., B.S. 1962 '63 '64</th>
<th>M.A., M.S. 1962 '63 '64</th>
<th>Ph. D 1962 '63 '64</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology</td>
<td>10 11 17</td>
<td>2 1 7</td>
<td>1 3 -</td>
</tr>
<tr>
<td>Biology</td>
<td>34 23 39</td>
<td>12 6 12</td>
<td>- 1 1</td>
</tr>
<tr>
<td>Chemistry</td>
<td>8 11 11</td>
<td>1 2 6</td>
<td>7 3 3</td>
</tr>
<tr>
<td>Comp. Lit.</td>
<td>- 2 2</td>
<td>- - 1</td>
<td>- -</td>
</tr>
<tr>
<td>Economics</td>
<td>12 13 9</td>
<td>2 - 1</td>
<td>- -</td>
</tr>
<tr>
<td>English</td>
<td>29 32 42</td>
<td>5 6 6</td>
<td>1 2 1</td>
</tr>
<tr>
<td>Engl.-Phil.</td>
<td>1 5 2</td>
<td>- -</td>
<td>- -</td>
</tr>
<tr>
<td>For. Studies</td>
<td>14 12 15</td>
<td>2 - 1</td>
<td>- -</td>
</tr>
<tr>
<td>Geography</td>
<td>1 2 -</td>
<td>- -</td>
<td>- -</td>
</tr>
<tr>
<td>Geology</td>
<td>10 8 8</td>
<td>9 6 5</td>
<td>2 1 1</td>
</tr>
<tr>
<td>Government</td>
<td>16 14 16</td>
<td>- 2 4</td>
<td>- -</td>
</tr>
<tr>
<td>History</td>
<td>26 22 28</td>
<td>12 7 10</td>
<td>4 3 3</td>
</tr>
<tr>
<td>Journalism</td>
<td>7 9 11</td>
<td>- -</td>
<td>- -</td>
</tr>
<tr>
<td>Mathematics</td>
<td>19 26 30</td>
<td>3 4 5</td>
<td>1 2 2</td>
</tr>
<tr>
<td>Mod. Lang.</td>
<td>10 9 30</td>
<td>4 4 6</td>
<td>- -</td>
</tr>
<tr>
<td>Philosophy</td>
<td>2 2 3</td>
<td>- -</td>
<td>- -</td>
</tr>
<tr>
<td>Physics</td>
<td>3 3 4</td>
<td>14 13 10</td>
<td>3 2 2</td>
</tr>
<tr>
<td>Psychology</td>
<td>13 21 40</td>
<td>5 3 1</td>
<td>1 - -</td>
</tr>
<tr>
<td>Sociology</td>
<td>8 13 6</td>
<td>1 - -</td>
<td>- -</td>
</tr>
<tr>
<td>Speech</td>
<td>6 5 4</td>
<td>2 3 2</td>
<td>- -</td>
</tr>
<tr>
<td>Art*</td>
<td>3 3 3</td>
<td>- -</td>
<td>- -</td>
</tr>
<tr>
<td>Dietetics*</td>
<td>- 3 -</td>
<td>- -</td>
<td>- -</td>
</tr>
<tr>
<td>Med. Tech.*</td>
<td>3 1 3</td>
<td>- -</td>
<td>- -</td>
</tr>
<tr>
<td>Amer. Studies**</td>
<td>- 1 -</td>
<td>- -</td>
<td>- -</td>
</tr>
<tr>
<td>Ibero-Amer.**</td>
<td>- 1 -</td>
<td>- -</td>
<td>- -</td>
</tr>
<tr>
<td>M.A.T. (Span.)</td>
<td>- 10 21 9</td>
<td>- 8 31 24</td>
<td>21 18 14</td>
</tr>
</tbody>
</table>

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

** Interdisciplinary programs at the doctoral level.

** CURRICULAR CHANGES

Curricular changes this year were relatively minor. Many courses were added and many removed, but the net change was not great. The mathematics department made a major revision in its numbering system to get a more logical arrangement, but otherwise the changes were relatively minor.
The English department made a major revision in the requirements for a major, increasing the total hours required and reducing the number of choices allowed.

One new degree, a master's program in International Affairs, was added. This is an interdepartmental degree involving the departments of government, economics, and history, and is under the supervision of the Division of Foreign Studies.

IV. THE WORK OF THE COLLEGE IN RESEARCH

The transformation of the University of New Mexico from essentially an undergraduate institution to a major research university continued in 1963-64. There were more publications and more sponsored research than ever before.

The two most active departments from the standpoint of published research were history and mathematics. The history department published four books, 13 articles, and 21 scholarly reviews. The mathematics department had 30 articles in scholarly journals. Nine members of the history department and ten of the mathematics department had at least one book or article published.

In sponsored research, the physics department was the leader by a wide margin. Grants and contracts now active amount to approximately $1,300,000 with an additional $600,000 in applications pending. The department also received $350,000 from the National Science Foundation to help in the construction of a graduate level research building.
The chemistry department was next in sponsored research with about $200,000 in force, while the mathematics department was third with about $130,000.

The economics department continued its studies of the Colorado River basin under a grant from the Public Health Service and shared in a grant from the National Science Foundation to support the continuation of the work of Professor Bower on the use of water for manufacturing. Professor Chung continued his work on the strategic hamlet program in Viet Nam under a Defense Department grant, and Professor Wollman received a grant from Resources for the Future to support a 14-month stay in South America next year.

Professor Basehart of the anthropology department received a grant running from February of 1963 through January of 1964 to study the Matengo tribe in Tanganyika.

Many other smaller grants too numerous to mention were received by various members of the College, and a number of applications were sent in whose fate is not yet known.

The Annual Research Lecture was given this year by Professor Milton Kahn, professor of chemistry. His lecture was entitled "Radioisotopes in the Study of Unweighable Amounts of Matter." Professor Kahn has been at the University since 1948, and is nationally recognized as an expert on iodine 131. He has published over 50 books and papers in various phases of chemistry, principally in physical chemistry.

It would be unduly long to mention all the research accomplishments of the College in a report of this sort. A large
per cent of the departments were quite active and those mentioned were picked because their activity seemed to stand out somewhat above the others.

V. SOME COMMENTS ON FUTURE PROJECTIONS AND NEEDS

1. The physics department received a $350,000 grant from the National Science Foundation to help in the construction of a graduate-level research building. Plans for the building are pretty well completed and construction should start soon.

2. A request by the biology department for matching funds to construct an addition to the biology building has been turned down by the National Science Foundation for lack of funds. The biology department has completely outgrown its present building, and unless it gets additional space in the very near future will be in really serious straits. It is hoped the new Educational Facilities Act may help remedy this situation.

3. New space will soon be vitally needed by chemistry and new office space is greatly needed by the social science departments. The offices planned in the new library addition may alleviate this latter situation temporarily, but a permanent solution needs to be found.

4. One of the most serious needs in the College is for major increases in the supply and equipment budgets of the science departments. In spite of the increased costs, most departments are receiving very little more per student than they
did ten years ago. We are falling far below what the other schools in our area provide and the program is suffering. The situation is particularly acute in the biology and chemistry departments.

5. Additional gains were made in the direction of reduced teaching loads, primarily in the anthropology and geography departments. The problem of teaching loads is becoming acute in several departments where it is becoming almost impossible to get senior staff members without offering at most a 6-hour load. This situation will get worse as the proportion of graduate work increases. It would appear to me that the only solution to the problem is to adopt a policy of variable teaching loads, with the graduate staff having 6-hour loads and the undergraduate staff having as much as a 12-hour load, both groups being rewarded equally.

6. The economics department has been given tentative approval to work toward offering the Ph. D. in the near future. A target date of 1966 for accepting students has been set. The department should have a man in mathematical economics before the program gets under way. Such a man was authorized for this year but the search for him was unsuccessful.

7. Serious consideration should be given to offering a degree in computer sciences in the near future. The demand for such programs is growing all over the country. Such a program should be handled by the mathematics department but should be interdisciplinary in nature, involving the physics department and the College of Engineering.
8. At the present time, as mentioned earlier, the College of Arts and Sciences accounts for almost 69% of all student credit hours taught in the University and the proportion has been steadily rising. This would appear to be an unduly large share, especially since the next largest college, Education, accounts for only about 11%. If a division were made into two colleges, one including the humanities and social sciences and the other mathematics and the sciences, a much more manageable situation would ensue. This year, for example, if such a separation were in effect, the humanities and social sciences college would have taught 40.4% of the total University load and the science-mathematics college would have taught 28.3%. These proportions are still too high but are a great improvement over 69%. Such a division is common in a large number of major colleges, and the administration should give serious thought to such a division here.
The Report of the Department of Anthropology  
July 1, 1963 - June 30, 1964  
W. W. Hill, Chairman

I. General departmental information

A. Significant achievements during the academic year, 1963-64.

During the year 1963-1964 sixteen students received the Bachelor of Arts degree in Anthropology and seven obtained the degree of Master of Science. In addition to these, five students received baccalaureate degrees who were minors in anthropology.

Besides its regular program the Department held its annual Field Session. The headquarters for the thirty-third Field Session was at Northern New Mexico College. Archaeological excavations were conducted at the ruin of Sapawe.

Volume 20 of the Southwestern Journal of Anthropology, sponsored by the department and co-edited by Dr. Harry Basehart and Dr. Stanley Newman, with W. W. Hill as Associate Editor, was published. This Journal, recognized as one of the leading quarterlies in the field of Anthropology, now has 1629 subscribers. Of these 318 are in foreign countries. Details concerning the Journal are contained in a separate report.

The exhibits of the Museum of Anthropology serve as important adjuncts to our teaching program.

Attendance: From the period July 1, 1963 to May 20, 1964

Guided groups: 228

Attendance in guided groups 6,679
Other attendance (approximate) 24,863
31,542 (approximate)

Projected attendance to June 30, 1964 33,807

Most groups were from the Albuquerque public school system, grades 4-7 predominating. Also school groups from Socorro, Los Lunas, Grants, Gallup, Jemez Springs, Bernalillo, and Los Alamos were guided through the museum.

Collections: Collections were augmented considerably during the last year. Of first importance was the series of Navajo rugs and blankets donated by Gil Maxwell of Farmington, New Mexico and a very complete
collection of Indian silverwork from Mrs. Morris Udall of Tucson, Arizona. These collections, both historic in character and of fine quality, strengthened two important collection areas of the Museum.

**Exhibitions:** During its first year open to the public the Museum prepared exhibits of Navajo weaving from the Gil Maxwell collection as the first in a series of thematic exhibitions which will explore various aspects of anthropology. Exhibits of silverwork, ethnological presentations of Plains, Northwest Coast, Eskimo, African, Oceanic, and Pueblo materials were completed. The archaeological sequence of the American Southwest nears completion. An archaeological presentation of Early Europe is finished.

**Other:** The first phase of the reorganization of the storage areas was completed during the course of the year. Initial steps in recataloging the collection were also taken. The new cataloging system utilizes punch cards and will allow simple cross-indexing of all collection materials. The cataloging and classification of the large collection of Museum photographs was also begun.

**B. Significant plans and recommendations for the future.**

The overall enrollment in Anthropology has continued to increase and there is no reason to believe that this will not continue in the future. In view of this the department should have at least one additional staff member for each of the coming two years. Since a large percentage of this increase is in the area of the lower division a request for additional graduate assistants is also in order. Since Dr. Campbell is assuming the chairmanship this coming year I would be ill-advised to comment on expansions in terms of courses without consulting him. I do know, however, that he is extremely interested in expanding the graduate area of the department and hopes that we can attract research money which will facilitate our graduate program.

-2-
C. Appointments to staff.

Dr. John M. Campbell, a new appointment, formerly of the George Washington University, will become chairman of the Department of Anthropology on September 1, 1964.

D. Separations from staff.

No separations.

II. Composite of information requested on individual biographical supplements.

1. Advanced study.

J. J. Brody, Curator - received his M.A. degree from the University of New Mexico, spring, 1964. His thesis title was "Design Analysis of the Rio Grande Glazed Pottery of Pottery Mound, New Mexico."

Karl Schwerin - expects to complete his dissertation and receive his doctorate at the end of the summer.

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

Harry Basehart - was granted sabbatical leave to do field research on the social structure of the Matengo tribe, southwestern Tanganyika, NSF supported.

- travel in India, Thailand, Hong Kong, and Hawaii enroute home from Songea, Tanganyika where research was conducted.


- will direct the 33rd Field School during the summer of 1964.

Frank C. Hibben - lecturer at the National Science Foundation

Karl Schwerin - taught summer school at the University of New Mexico during the summer of 1964.

3. New scholastic honors, fellowships, etc.

Brody - elected to Phi Kappa Phi, 1964.

4. Publications during the period.


- "A Reconstruction of the Basic Jemez Patterns in Social Organization, with Comparisons to Other Tanoan Social Structures," UNM Publications (in preparation).


Series of articles for the 1963-1964 science series of the Minneapolis Star-Tribune.


5. Other research projects

Basehart - NIMH Research in Anthro-Psychoanalytic Techniques $8,556.00, completed, May, 1964.


Bock - Consultant to College of Nursing (UNM) under their Public Health Service Training Grant.

- Continued preparation of dissertation materials for publication under grant from Faculty Research Committee.


- In progress: Maize, the Paintings of Joseph A. Imhof, an exhibition scheduled for January, 1965.

Ellis - A study by archaeology and tradition of the pueblo peoples for the Wetherill Mesa Project and the National Geographic Society.

Hibben - UNM Research Grant for educational TV film of the Bushman and Samburu tribes of Africa.

- UNM Research Grant for work on the prehispanic mural paintings at Pottery Mound, New Mexico.

Hill - Completed "Navaho Material Culture."
Newman: Writing a "General Introduction" to a book of articles by various authors, to be called *Studies in Ethnolinguistics: Meaning and History in the Languages of the American Southwest*.

6. Activities in learned and professional societies

**Basehart** - Secretary, Sigma Xi, 1964-1965.

**Bock** - Annual meeting, American Sociological Association, Los Angeles, California, August, 1963.


**Ellis** - Attended Archaeological Society of America meetings, Boulder, Colorado.


- Trustee, New Mexico Archaeological Society.

- Presented paper, "San Gabriel, Onate's First Capitol," New Mexico Archaeological Society, Santa Fe.


- Presented paper at the national meeting of the American Society for the Advancement of Science.

- Lecturer for the annual lecture series of the American Institute of Archaeology at midwestern universities, February, 1964.


**Newman** - President, New Mexico Phi Beta Kappa.

- Vice President, Social Sciences Section, Southwestern and Rocky Mountain Division, American Association for the Advancement of Science.
7. Other professional activities

Basehart - Co-editor, Southwestern Journal of Anthropology.

Brody - Talks - West Side Lion's Club, Albuquerque Old Glass Club, Corrales Art Center, Beta Sigma Phi

   - TV - George Fishbeck's "Science Fair".

Ellis - Director, UNM Field Session in Anthropology.

   - Lectures: "Dig, Dig, Dig Those Crazy Bones," Theta Sigma Phi Women's Honorary Journalism Fraternity, May 9, 1964.

   "Your Kind of Poverty May Not be Mine," Southwest Regional Meeting American Welfare Association, Santa Fe, April 8, 1964.

   "The Prehistoric Builders of Sapawe Also Were Amateurs," Santa Fe AAUW, April 1, 1964.

   "San Gabriel, Onate's First Capitol," Presbyterian Ministers, Ghost Ranch.


Hibben - Speaker for a number of archaeological societies, among them Grant and Chavez Counties and El Paso.

   - Numerous high school commencement addresses.

   - New Mexico Medical Association meeting speaker, Carlsbad, New Mexico, 1964.

   - Speaker for several Albuquerque Public School Career Days.

   - Talks before a number of public school classroom groups, women's clubs, etc.

   - Sigma Xi speaker at New Mexico State University and Highlands University chapters, spring, 1964.
Hill  - Treasurer, and member, of the Board of Regents of the Museum of New Mexico.
   - Treasurer, and member, of the Museum of New Mexico Foundation Board.
   - Member of the State Commission on Indian Affairs.
Newman  - Reviewer of two research proposals submitted to the National Science Foundation.
   - Co-editor of the Southwestern Journal of Anthropology.
Schwerin  - Consultant to the Peace Corps.

8. Non-teaching University service
Bock  - Secretary of faculty of Arts and Sciences.
   - General Honors Council.
   - Faculty Advisor, Kiva Club.
   - Career Scholar tutor.
Brody  - Member of President's ad hoc committee on Museums and Galleries.
   - Member of ad hoc committee on Museology.
   - Faculty Advisor, University College.
Ellis  - Member of Scholarship Committee
   - University College advisor.
Hibben  - University College advisor.
   - M-3 advisor.
   - Chairman of the ad hoc committee for courses in museology.
   - Director, Museum of Anthropology of the University of New Mexico.
Hill  - Member of the Dean's Advisory Committee.
   - M-3 coordinator.
Newman  - University College advisor (for Indian students)
- Member of the Publication Committee
- Editor, UNM Publications in Anthropology
- Co-editor, Southwestern Journal of Anthropology

Schwerin - M-3 advisor.

9. Public Service

Hibben - State Game Commission member
- Albuquerque Park Board member
I. General Departmental Information.

A. Significant achievements during the academic year 1963-64.

Unusual increases in enrollment in biology courses continue and required an increase of Graduate Assistants up to 24 in number. To meet the General Biology enrollments, laboratory sections were scheduled in all available daytime hours plus evening sections, except for Friday, and Saturday morning. Next fall, all available rooms and available hours, daytime and evening, will be used. The advancement of the heavy enrollment into upper division and graduate levels poses several problems. Multiple sections of laboratory in advanced courses, where the laboratory instructor should have the experience and knowledge of faculty, are having to be turned over to Graduate Assistants under faculty direction, thus endangering the quality of education. Examples include several courses in physiology, embryology, and comparative anatomy.

To prevent this continuing trend, additional faculty will have to be added. In some areas of emphasis the load
of graduate students is becoming excessive and there is a definite trend toward a higher percentage of doctoral candidates among the applicants and enrolled graduate students. Some better objective method of adjusting teaching loads in recognition of graduate student advisement should be formulated.

During the early part of the year, a self-analysis of the department was completed which included present curriculum and areas of course content to be added with departmental growth, the teaching and research specialty of future faculty additions, and the principal space problems and needs for future expansion. Following this, a detailed 90-page request was prepared for support in the construction of a research and training addition to the Biology Building. The proposal includes a request to the National Science Foundation to provide $761,000 of the estimated two million dollar cost of the addition, conversion, furnishings, and allowable equipment. Following a site visit, the request has received favorable approval from the first review board of the Foundation. Final decision of the amount and date of availability should be received by July 1, 1964.
department has presented building plans based on the analysis of the present departmental operation and the projected needs for the next ten years. The plans emphasize a functional approach. Room by room details of utilities, fixed furnishings, special physical requirements, room use and occupancy, and relation to the other areas of the building have been provided to the University architect. The firm of Flatow, Moore, Bryan, and Fairburn has been appointed as the architectural firm for the addition.

The research study collections in the department have continued growth with accompanying signs of national recognition of their importance as university collections. Increased professional use of the collections has been made by visiting scientists and through exchange of specimens. Professional specialists have been complimentary of the curatorial quality of some of the collections. The Herbarium now contains 34,300 sheets of plant specimens, the mammal collection 19,000 specimens, the bird collection 2,400 skins, and the herpetology collection 11,700 specimens. A major addition of cases for
fungal collections, two drying ovens and 50 herbarium cases was made to the Herbarium by a graduate science facilities grant from the National Science Foundation through Dr. William Martin.

Approval of the ninth Radiation Biology Institute for 40 high school and college teachers under the sponsorship of the AEC and NSF has been approved for the summer of 1964. To date, about 172 teachers have been trained in this specialized program and the University of New Mexico, one of the co-originators of the program, is the oldest university in years of service. The department was host in April to the national meeting of directors of Radiation Biology and Nuclear Technology Institutes.

The Rocky Mountain Forest and Range Experiment Station, Ft. Collins, has continued its two-year cooperative Research Agreement to support a Research Assistant to re-evaluate the ecology of 25-year protected enclosures in New Mexico forests.

Members of the department, notably Dr. Marvin L. Riedesel and Dr. Martin Fleck were active in the Spring meeting on campus of ARMU which emphasized
radiation biology and nuclear technology.

A program of training new Graduate Assistants in the responsibilities of university teaching and techniques of laboratory instruction has been well developed and is a real contribution to future university personnel.

One post-doctoral Danforth Fellow was attached to the department in Semester I. A continued program of post-doctoral fellowships is planned as space is available. Fifty-five graduate biology majors were enrolled in 1963-64. Thirteen master's degrees and one doctoral degree have been completed during this year.

B. Significant plans and recommendations for the near future.

The greatest anticipation is the National Science Foundation approval of matching funds for the support of the graduate training and research portion of the proposed biology addition. Upon receipt of this approval detailed architectural plans can be made, bids let, and construction could begin by December, with the building ready for occupancy.
by Semester II, 1965-66. With accompanying increases in faculty and the availability of research laboratories, an expanded program of biological research will occur.

Increases in personnel are a must and will include faculty, increased secretarial help, and increased student assistance for clerical work and curatorial functions in the research collections.

C. Appointments to staff.

Dr. Clifford S. Crawford, Assistant Professor in entomology, has been appointed effective September, 1964 to expand the offerings in entomology and to develop a research and graduate program in this field.

One Teaching Assistantship and the equivalent of 24 Graduate Assistantship appointments were made for 1963-64. In addition, several senior and one graduate intern in the Ford Foundation Career Scholar program were used as laboratory instructors.

Mrs. Mary Coe was employed to replace Mrs. Arthur Harris as departmental secretary, effective September, 1963.

D. Separations from staff.

Two graduate assistantship appointments, namely Kenneth Goodrow and Daniel Walton, were terminated during the year at their request for personal reasons.
II. Composite of information requested on individual biographical supplements.

1. Advanced study.

None

2. Sabbaticals, leaves, etc.

Dr. C. Clayton Hoff was on sabbatical leave in Semester I to continue research studies on pseudoscorpions.

Collecting of biological specimens from Canada into Mexico was done by several faculty.

Dr. Martin Fleck served as guest lecturer at University of Hawaii Radiation Biology Institute.

3. New scholastic honors, fellowships, etc.

Dr. William Johnson. (1) enrolled in faculty course on data processing, (2) elected to full membership in Sigma Xi, (3) elected to Phi Sigma, (4) elected to Genetics Society of America, (5) elected to American Association for the Advancement of Science.

4. Publications.


5. Other research projects in progress.

Degenhardt, William. (1) Continued work on a snake and tick association, (2) continued work on the herpetofauna of New Mexico, (3) (granted stipend from) University research fund to carry on studies of reptiles and amphibians in New Mexico.
Dittmer, Howard. (1) Last year of 3-year $11,400 grant from NSF on root systems of plants living in arid and semi-arid regions, (2) UNM research grant of $1,200 for research on root systems of desert plants.

Findley, James. (1) Manuscript completed on the Reptiles and Amphibians of New Mexico, (2) Manuscript completed on the bats of New Mexico, (3) About 4 papers in press, (4) Studies on biogeography of SW vertebrates in progress.

Hoff, C. Clayton. (1) Grant GB-43 from NSF still active; for studying pseudoscorpions from Florida and the West Indies, (2) one paper in press and another in process of being completed.

Johnson, William. (1) UNM Research Grant of $710 for Drosophila research.

Martin, William. (1) Finishing a checklist of gymnosperms and angiosperms of New Mexico, (2) continued work on a manual of the trees and shrubs of New Mexico, (3) Working on Rita Blancan Pleistocene flora, (4) Received facilities improvement grant from NSF for expansion of graduate studies in systematic botany.


Riedesel, Marvin. (1) Continuation of NSF Grant No. GB-216, "Evaluation of Physiological Strain

Schoenholtz, Walter (1) Investigations on cellular immunity in Bedsonia infections and problems of virus latency. (To be supported by a 3-year grant from NIH, favorably recommended for 1964 in the approximate amount of $34,000). Grant No. AI-05675-01-VR.

6. Activities in learned and professional societies.

Degenhardt, William. (1) Reappointed (for 2nd year) State Director of the National Association of Biology Teachers. (2) Elected a Fellow of the Herpetologist's Leage, (3) Elected President of the New Mexico Herpetological Society. (4) Paper on association between Elaphe suboculoris and the tick Aponomma elaphensis at A.S.I.H. meeting, Vancouver, B.C.

Dittmer, Howard. (1) Member of Executive Committee of the AAAS, Southwestern and Rocky Mountain Division. (2) Attended AAAS, Southwestern and Rocky Mountain Division meeting in Lubbock, Texas, April 25-30.

Findley, James. (1) Board of Directors, American Society Mammalogists (and 2 committees).


Koster, William. (1) Associate Editor - SWANiEWS S. W. Assoc. Naturalists.

Martin, William. (1) Participant in symposium at Michigan State University concerning the role of the herbarium in the modern university.
Potter, Loren. (1) Completed final year as an Associate Botanical Editor of Ecology, the journal of the Ecological Society of America. (2) Attended meetings of Southwest Division of AAAS and the national meetings of the American Society of Range Management. (3) Served as one of the editors for a bulletin on Range Management in New Mexico.


Schoenholz, Walter. (1) Attendance at national meeting of American Society of Microbiologists, Washington, D.C.

7. Other professional activities.

Degenhardt, William. (1) Committee chairman for selection of Outstanding Biology Teacher of New Mexico, (2) Lecture to Albuquerque Biology Teachers Assoc., (3) Science fair judge, (4) assisted in TV (Ch. 5) biology program, (5) Talk to Albuquerque Gem and Mineral Society.

Dittmer, Howard. (1) Visiting lecturer, New Mexico Academy of Science and NSF, to seven high schools, (2) Consultant to Los Alamos Biological Laboratories on radiation damage to western yellow pine trees, (3) Judge of Regional Science Fair, (4) Talks to local garden clubs, (5) Consultant for Insurance Company in assessing damage to plants in yards caused by gas leaks, (6) Identification of materials for Museum of New Mexico, Santa Fe. (7) Review of General Botany Manuscript for Academic Press

Hoff, C. Clayton. (1) Gave three special lectures on thesis writing for graduate students. (2) Biology Editor, Scholarly Series, UNM Publications.

Koster, William. (1) Talk on educational TV program. (2) Career Days speaker.

Martin, William. (1) Numerous addresses to local groups concerning aspects of the flora of New Mexico. (2) Served as judge both for local and regional Science Fair.

Potter, Loren. (1) Director of Radiation Biology Institutes for high school teachers and college professors (AEC & NSF sponsored). (2) Charge of local arrangements for national meeting of Radiation Biology and Nuclear Technology Institute Directors, Albuquerque, April 1964. (3) Preparation of 90-page grant request reviewing development and plans for Biology Department, plans for building addition, and grant request to NSF for $750,000.

Riedesel, Marvin. (1) Participant in the American Institute of Biological Science, Program of Visiting Biologists to Colleges. (2) Participant in New Mexico Academy of Science, Program of Visiting Scientist Program for Junior and Senior High Schools. (3) Presented paper on "Effects of Cold Exposure and Hibernation on Cesium-137 Metabolism in Several Mammals", AEC-ARMI Conference, April 22-24, 1964. (4) Consultant to Office of Technology Utilization, National Aeronautics and Space Administration. (5) Consultant to General Programmed Teaching Corp.
Schoenholz, Walter. (1) Consultation with local physicians on bacteriological problems.

8. Non-teaching University service

Degenhardt, William. (1) University College advisor. (2) M-3 advisor. (3) Student Affairs Committee. (4) Curator of Reptiles and Amphibians in Museum of Southwestern Biology.

Dittmer, Howard. (1) Chairman A and S Scholarship Committee. (2) Member Publications Committee. (3) Member Dean's Advancement Committee for Science Fields. (4) Assistant Dean College of Arts and Sciences.

Findley, James. (1) UNM Research Committee. (2) Marshal at commencement(s). (3) honorary degree committee.

Fleck, Martin. (1) Campus Safety and Civil Defense Committee. (2) Student Publications Board. (3) Chairman Citizenship Committee of UNM Alumni Association. (4) Member of several ad hoc committees.

Hoff, C. Clayton. (1) Advisor for majors in Biology, Sem. II. (2) In charge of selection of books for purchase from Biology Department book funds, Sem. II. (3) Departmental committee for selection of Graduate Assistants.

Johnson, William. (1) Faculty Advisor for M-3 student in biology. (2) Chairman of Biology Department Seminar.


Martin, William. (1) Faculty advisor-University College. (2) Faculty advisor - Phi Sigma Society. (3) Acting Chairman (1-month), Summer 1963. (4) Departmental building committee.

Potter, Loren. (1) Chairman, Biology Dept. (2) Graduate student advisor. (3) Lawrence Ranch

Riedesel, Marvin. (1) Faculty Advisor for Sophomores. (2) Member of Graduate Committee. (3) Chairman, Sub-committee on Residency, Graduate Committee.

Schoenholz, Walter. (1) Member Student Standards Committee. (2) Member of departmental committee for selection of Graduate Assistants.


Degenhardt, William. (1) Identification of biological material.

Dittmer, Howard. (1) Information to general public on gardening, etc.

Findley, James. (1) President, Sandoval P.T.A.

Fleck, Martin. (1) Responds to numerous inquiries regarding medical and biological problems.

Koster, William. (1) Consultations with N.M. Game and Fish Department. (2) Consultations on commercial enterprises on fish production. (3) Identification service.

Martin, William. (1) Identification of plants for governmental agencies and individuals. (2) Committeeman, Assistant Scoutmaster, Merit Badge Councilor for Boy Scouts.

Potter, Loren. (1) Commission on Education, Methodist Church, (2) UNM Wesley Foundation Board.

Riedesel, Marvin. (1) Chairman, United Campus Christian Fellowship.

Schoenholz, Walter. (1) Participation as Advisor in Camp Fire Girl activities.
I. General Departmental Information

A. Significant achievements during the academic year 1963-64.

Eleven undergraduate chemistry majors received either the B.S. or B.A. degrees this year. Of these, ten will do graduate work.

A National Science Foundation Grant for undergraduate equipment has been granted in the amount of $17,000 to upgrade the analytical and inorganic chemistry laboratories.

A similar NSF undergraduate equipment grant has also been received for physical chemistry.

Receipt of research funds from outside agencies have increased. The staff continues to be vigorous in both teaching and research.

B. Significant plans and recommendations for the near future.

An addition to the faculty is presently being sought which will enable us to reduce teaching loads for those doing research, so that time can be divided between research and teaching.

The increased supply and expense budget has been of real help in maintaining the departmental supplies. There is a great need, however, for relatively large amounts of permanent equipment funds. Instruments ranging in price from $10,000 to $50,000 or more are now essential for the graduate program. These instruments are required if we are to build a first class Department of Chemistry at both the undergraduate and graduate level. The list of equipment submitted to the Dean of the Graduate School represents only a part of our equipment needs.
C. Appointments to staff.

Dr. Bruce D. West was appointed Assistant Professor of Chemistry for the academic year 1963-64 to fill our needs in Biochemistry. Mrs. Miriam Malm has been appointed Instructor in Chemistry beginning July 1, 1964. She will be responsible for the demonstration laboratories in general chemistry and will assist us in the organic chemistry program.

D. Separations from staff.

None.

II. Composite of Information Requested on Individual Biographical Supplements

1. Advanced study

None

2. Sabbatical leaves of absences, summer teaching, travel, etc. during the period.

   a. RAYMOND N. CASTLE: Travel to England, France, Germany and Ireland, July, 1963. See item 6 for meetings attended, research papers presented and universities and research institutes visited.


3. New scholastic honors, fellowships, etc.

   a. GLENN A. CROSBY: Fulbright Lectureship for University of Tübingen for Summer 1964.

   b. MILTON KAHN: University of New Mexico, 11th Annual Research Lecturer.
4. Publications during the period.

a. RAYMOND M. CASTLE


(4) The Synthesis and Cleavage of Dipyrido[4,5-b:4,5-c]-1,4-dithiin-1,6-dione, Die Naturwissenschaften, 51, 38 (1964) (with K. Kaji) 1 page.


b. ROY D. CATON


c. GLENN A. CROSBY


(2) The Effect of Deuterium on the Luminescence Decay Times of Solvated Rare Earth Chlorides, accepted for publication, J. Mol. Spectry., (with J. J. Freeman and K. Lawson)

(3) Crystal Field Splitting in Yb$^{3+}$ Chelates, submitted for publication (with W. G. Perkins)
5. Other research projects or creative work in progress or completed during period.

a. RAYMOND N. CASTLE


(2) Completed Ultraviolet and Infrared Spectroscopic Studies of Cinnolines with Regitze R. Shoup. Two manuscripts are being prepared for publication.

(3) Completed a research project sponsored by Smith, Kline and French Laboratories on 2-Phenylimidazo[4,5-d]pyridazines with Miriam Malm. A manuscript is being prepared for publication.

(4) Synthesis of Pyridazines with William D. Rhoads substantially completed.

(5) The Synthesis of Imidazo[4,5-d]pyridazines and Related Nitrogen Heterocycles with Anne Gerhardt is in progress.

(6) The 10th, 11th, and 12th years of support have been approved by the National Cancer Institute of the National Institutes of Health for the grant entitled "Pyridazines as Antitumor Agents". The amounts granted are as follows: 1964-65, $20,510; 1965-66, $20,160; 1966-67, $20,150. The total for the three years is $60,830. In addition to the study of pyridazines, a study of the mechanism of energy transfer in DNA will be explored.
(7) The 6th, 7th, 8th, and 9th years of support have been approved by the National Cancer Institute of the National Institutes of Health for a grant entitled "Cinnolines and Polyazanaphthalenes as Antitumor Agents". The amounts granted are as follows: $19,440 each year for 1964-65, 1965-66, 1966-67, and 1967-68. The total for the four additional years is $77,760.

(8) The total research funds available for 1964-65 are $63,844, detailed under (1), (6), and (7). Negotiations are under way for a $44,000 per year contract from the Walter Reed Army Institute of Research.

(9) Several manuscripts based upon research completed in past years are being prepared for publication.

b. ROY D. CATON

(1) Spectrophotometric determination of some transition metals in metaphosphate glasses (with C. Wolfe)

(2) Electrochemistry of vanadium and manganese in molten alkali metaphosphates (with C. Wolfe)

(3) Electrode potentials in molten alkali metaphosphates.

(4) Spectrophotometric determination of iron with 3-oximino-2,4-diketochromane (with B. West)

(5) Grants received: American Chemical Society - Petroleum Research Fund, $1,500, 1 year, grant received September 15, 1963.

c. GLENN A. CROSBY

(1) Air Force Office of Scientific Research Grant (1st year) $77,730/2 years. "Fundamental Investigations of Luminescent Materials".

(2) National Science Foundation Grant (last full year) $52,000/3 years. "Spectra of Coordinated Rare Earth Ions".

(3) Sandia Corporation Grant = $16,000/year. "Energy Transfer".

(4) Work in progress - essentially same as last year.

d) GUIDO H. DAUB

(1) Liquid scintillators. A study of steric inhibition of resonance in liquid scintillators.

(2) Liquid Scintillators. Some trans-stilbene derivatives.

(3) Synthesis of some Azabenzo[a]pyrenes.

(4) Grant: Continuation of grant from U.S. Atomic Energy Commission for period of September 15, 1963 to September 14, 1964.
(1) The Preparation and Properties of Carrier-Free Silver-110m Amalgams (with H. L. Hamster). Accepted for publication by the Journal of Inorganic and Nuclear Chemistry.

(2) Chemical Behavior of Carrier-Free Antimony-125 (with K. H. Jones). Submitted for publication.


(4) Self-Diffusion of Tungsten and Diffusion of Rhenium in Single Tungsten Crystals (with R. Andelin and J. D. Knight). Submitted for publication.


(15) Grants Received:
   b) University of California, Lawrence Radiation Laboratory, $5,766. Recovery of Iodine-131 Incorporated in Soil and Organic Material as a Result of a Nuclear Detonation. 1963-64.

   f. JESSE L. RIEBSOMER       None
   g. VICTOR V. SEARCY          None
   h. BRUCE D. WEST
      (1) Investigation of analytical chemical applications of 3-oximino-2,4-diketochromene (with Roy D. Caton)
   i. MASAHARU YAMAUCHI
      (1) Work in progress on the Tetra(dimethylamino) diboron-diborane system (with Jack D. Cummings)
      (2) Work in progress on Synthesis of "covalent" Triborohydrides.
      (3) Grant received: National Science Foundation, $28,400, Chemistry of the Boron Hydrides, Summer 1962 to Summer 1964.
      (4) Wrote proposal with Roy D. Caton for an undergraduate equipment grant to the National Science Foundation.

6. Activities in learned and professional societies.

   a. RAYMOND N. CASTLE
During July, 1963 the following were visited: Cambridge University, Cambridge; Professor A. R. Katritzky, University of East Anglia, Norwich; Dr. N. Openshaw, Research Administrator, Burroughs Wellcome Research Laboratories, Welwyn, Kent; Professor N. P. Buu-Hoi, Centre National de la Recherche Scientifique, Paris; Dr. J. Ladik, the Sorbonne, Paris; Professor Dr. H. Bredereck, President of the Technische Hochschule, Stuttgart.

Presented the following research papers before the New Mexico Academy of Sciences, Albuquerque, October 25, 1963: (1) "A Novel Nucleophilic Displacement Reaction in Nitrogen Heterocycles with Phosphorus Penta-sulfide" with A. Gerhardt, W. Guither, T. Kuraishi, M. Malm, W. Rhoads, R. Shoup and C. Weber; (2) "The Synthesis of Imidazo[4,5-d]pyridazines and 1,2,4-Triazolo[4,3-b]pyridazines" with T. Kuraishi; and (3) "The Synthesis of 2-Phenylimidazo[4,5-d]-pyridazines as Potential Medicinal Agents" with M. Malm.

Presented an invited research lecture entitled "The Chemistry of Nitrogen Heterocycles with Two Nitrogen Atoms Adjacent" before the research staff of the E. C. Britton Research Laboratory of the Dow Chemical Company, October 18, 1963, Midland, Michigan.

Attended the Southwest Regional Meeting of the American Chemical Society in Houston, Texas, December 4-7, 1963 and represented the New Mexico Section of the American Chemical Society at the Annual Council Meeting. As a result of the invitation extended at this meeting, the annual Southwest Regional Meeting will be held in Albuquerque in December, 1966.

Attended the National Meeting of the American Chemical Society in Denver, Colorado, January 19-23, 1964.

Attended the National Meeting of the American Chemical Society in Philadelphia, Pa., April 5-10, 1964.


Visited the Walter Reed Army Institute of Research for a research conference with Drs. D. Jacobus, T. R. Sweeney and F. Coad, April 3, 1964 (A.M.).

Visited the National Cancer Institute of the National Institutes of Health, Bethesda, Md., April 3, 1964 (P.M.) for a research conference.

Served for the second year as a member of the chemistry panel of the National Research Council for the selection of NSF predoctoral and postdoctoral research fellows on a national level, Washington, D.C., February 18-20, 1964.

(14) Met with Dr. Carrigan and staff at the National Science Foundation, Research Facilities Branch to discuss possible NSF funds for the proposed addition to the UNM Chemistry Bldg., Washington, D.C., February 17, 1964.

(15) Three manuscripts were reviewed for publication in the Journal of Organic Chemistry and one manuscript was reviewed for publication in the Journal of Pharmaceutical Sciences.

(16) Chairman, Nominating Committee, UNM Chapter, Society of the Sigma Xi.

b. ROY D. CATON


c. GLENN A. CROSBY

(1) Attended Summer School in Menton, France as mentioned in (2)


d) GUIDO H. DAUB

(1) Treasurer, New Mexico Chapter of Sigma Xi.

(2) Advisor, New Mexico Section of American Chemical Society.


(4) Member of Sigma Xi, Phi Kappa Phi, Phi Lambda Upsilon, American Chemical Society, American Association for the Advancement of Science (Fellow), Blue Key.

e. MILNOR KAHN

(1) Attended the 146th National Meeting of the American Chemical Society in Denver, Colorado, January, 1964.

(2) On invitation, spent one week at Washington University. Participated in several radiochemistry seminars.
f. JESSE L. RIEBSOMER

(1) Attended Organic Chemistry Symposium, Columbus, Ohio, June, 1963.

(2) Served as consultant to Allied Chemical Company, New York City, August, 1963.

(3) Attended New Mexico Academy of Science, Albuquerque, N.M., October, 1963 and presented a paper entitled "The Analysis of Seed Oils of Six Tropical Plants".

(4) Attended 146th National Meeting of the American Chemical Society, January, 1964 in Denver, Colorado.

(5) Attended meeting of Academic Year Institute, chemistry instructors, Chapel Hill, N.C., April, 1964.


(7) Served as Assistant Editor of "The Journal of Heterocyclic Chemistry".

(8) Elected Councilor of the New Mexico Section of the American Chemical Society.

g. VICTOR V. SEARCY

None

h. BRUCE D. WEST

None

i. MASANOBU YAMAUCHI

(1) Attended National American Chemical Society Meeting, Los Angeles

7. Other professional activities.

a. RAYMOND M. CASTLE

(1) Editor of the new international trilingual scientific journal, "The Journal of Heterocyclic Chemistry."

(2) Invited to participate in the Smith, Kline and French Consultants Conference and dinner, April 7, 1964, Philadelphia, Pa.

(3) An average of two off-campus talks or lectures have been given per month, primarily in connection with church work.


b. ROY D. CATON

(1) June 1-5, 1963: Visited Oregon State University, Chemistry Dept. Consulted on electroanalytical methods in molten salt solvents.
c. GLENN A. CROSBY

(1) Series of 5 lectures on quantum chemistry, Highlands University, Las Vegas, N.M., June 1963

(2) Invited talk, "Energy Transfer in Rare Earth Chelates", Westinghouse Corp., Pittsburgh, Pa., June 1963

(3) Invited talk, "Crystal Field Splitting in Coordination Compounds", Chemstrand Corp., Durham, N.C., June 1963

(4) Invited talk, "Crystal Field Splitting in Coordination Compounds", Sandia Corp., Albuquerque, January 1964

(5) Consultancies: Texas Instruments, Dallas, Texas; Chemstrand Corp., Durham, N.C.; Space Technology Laboratories, Redondo Beach, California.

(6) Advisor for Kingston Committee (Department of Defense), Washington, D.C.

(7) Advisor for Institute for Defense Analyses, Washington, D.C.


(9) Refereed six papers for scientific journals.

d. GULDO H. DAUB

(1) Consultant to Sandia Corporation

(2) Consultant to Packard Instrument Sales Co., Albuquerque, N.M.

(3) Consultant to Arapahoe Chemical Co., Boulder, Colorado.

(4) Refereed several papers for J. Org. Chem. during year.

e. MILYOI KAHN

(1) Presented the 11th Annual University Research Lecture.

(2) Delivered two lectures at Washington University, Chemistry Dept., St. Louis, Mo.
   1. Kinetics of Isotopic Exchange Reactions
   2. Dilute Solution Chemistry

(3) Delivered two lectures at Lawrence Radiation Laboratory, Livermore, California:
   1. Dilute Solution Chemistry of Iodine
   2. Dilute Solution Chemistry of Antimony and Silver
(4) Delivered a lecture to the "21" Club - "Hot-Atom" Chemistry.

(5) Consultant to Los Alamos Scientific Laboratory.

(6) Consultant to University of California Lawrence Radiation Laboratory.

f. JESSE L. RIEBSOMER None

g. VICTOR V. SEARCY
Constantly gives off-campus talks

h. BRUCE D. WEST None

i. MASANOBU YAMAUCHI None

8. Non-teaching University service.

a. RAYMOND M. CASTLE

(1) Invited speaker at the Chapel Service, UNM Memorial Chapel, commemorating the 75th Anniversary of the Founding of The University of New Mexico, February 28, 1964.

(2) Member, University Research Committee.

(3) Member, Coordinating Council, Career Scholar Program.

(4) Committee member for the selection of summer fellowships in the Career Scholar Program.

(5) Committee member for the selection of the 1965 Annual Research Lecturer.

b. ROY D. CATON

(1) Faculty advisor - University College

(2) Prepared and submitted the following proposals:

(a) Proposal to National Science Foundation, Special Projects in Science Education, for Undergraduate Instructional Scientific Equipment (with M. Yamauchi) for $25,850 in matching funds. NSF granted $17,000 on May 1, 1964.

(b) Proposal to Sandia Corporation, "The Electrochemistry of Some Transition Metals and Lanthanides Dissolved in Molten Alkali Metaphosphates." Grant was received. (Effective July 1, 1964)
c. GLENN A. CROSBY

(1) Graduate Committee
(2) Subcommittee on Graduate Research Policy
(3) NASA Committee
(4) Chairman - Sandia-UNM Colloquium Committee
(5) Faculty Advisor - University College
(6) M-3 Program Faculty Participant
(7) Received grant of $15,000 (matching funds) from National Science Foundation for "Modernization and Expansion of the Physical Chemistry Laboratory".
(8) Received grant of $7,500 (matching funds) for Graduate-Level Research Facilities Construction.

d. GUIDO H. DAUB

(1) Chairman - Athletic Council
(2) Engineering Doctorate Committee
(3) Faculty Representative to Western Athletic Conference, Chairman of Eligibility Committee
(4) Faculty Representative to National Collegiate Athletic Association.

e. MILTON KALEN

(1) Served on Woodrow Wilson National Fellowship Foundation Committee
(2) Member of Committee on Academic Freedom and Tenure
(3) Advisor to Honor Students
(4) Chairman - Promotion Committee for the Sciences of the College of Arts and Sciences
(5) Participated, in part, in the Freshman Honors Program

f. JESSE L. ROBESMER

(1) Chairman - Curricula Committee
g. VICTOR V. SEARCY

(1) Faculty Advisor - University College

h. BRUCE D. WEST

None

i. MASANOBU YAMAUCHI

(1) Faculty Advisor - University College
(2) Chairman, Chemistry Department Seminar Committee
(3) Served on NASA Committee as temporary member


a. RAYMOND N. CASTLE

(1) Member of the Albuquerque Stake High Council, Church of Jesus Christ of Latter-Day Saints.
(2) Chairman, Scout Committee, Albuquerque Stake, Church of Jesus Christ of Latter-Day Saints.

b. ROY D. CATON

None

c. GLENN A. CROSBY

(1) September 1963 to January 1964 - Third grade Sunday school teacher, First Unitarian Church, Albuquerque
(2) Talk "Frontiers in Chemistry" at Highland High School

d. GLENN H. DAUB

(1) Member, Covenant Presbyterian Church, taught Sr. High Sunday School Class
(2) Chairman of Transportation Committee for Boy Scouts Troop 166.
(3) Institutional Representative for Cub Scout Pack 182.

e. M'LEON KAHN

None
f. JESSE L. RIEBSOMER

(1) Served as member of the New Mexico Basic Science Board. Was president during half of the year.

(2) Served as chairman of the Board of Appeals of the Bernalillo County Air Pollution Control Board.

g. VICTOR V. SEARCY

(1) Active in church

h. BRUCE D. WEST


i. MASANOBU YAMAUCHI  None


None.
II. General departmental information

A. Significant achievements during the academic year, 1963-64.

Research: The department was the recipient of the following grants and contracts: (1) a contract for continuation of its study through 1964-65 of the Colorado River Basin for the United States Public Health Service, (2) a small grant from Resources for the Future to support a brief trip to South America by Professor Wollman, (3) a larger grant from Resources for the Future to support a fourteen-month stay in South America during 1964-65 by Professor Wollman, and (4) shares, with the Department of Civil Engineering in a new grant from the National Science Foundation to support the work of Professor Bower. Most of the work by Professor Chung under, (5), contract with the Department of Defense came within this period, although initiation of his study began in May 1963. (6) Professor Liepe has been asked by W.R. Grace & Co. to conduct a study that will require him to spend some time in Mexico this summer.

The department shared responsibility with a number of others for the creation of a Natural Resources Center. The center is under the direction of a board consisting of
representatives of several disciplines. It is expected that Professor Bower will become the executive officer of the Center.

Curriculum and teaching program.

The department has reexamined its offerings, adding, deleting, and modifying requirements for the undergraduate major as well as for the master's degree. Several new courses were added and several were dropped.

Preliminary steps were taken to secure authorization of a Ph.D. program.

B. Significant Plans and Recommendations.

The department expects in 1964-65 to proceed with the formal steps necessary for authorization of a Ph.D. program. It hopes that it can accept students for candidacy by either September 1965 or September 1966. The present staff is adequate for such a program but the addition of established scholars in the fields of micro-theory and mathematical economics would be desirable.

Two appropriate areas for additional emphasis in future programs are: (1) natural resource economics; (2) Latin American economics. There is a need within the United States for a natural resources program, especially at the graduate level. There is a need for additional programs designed to train Latin Americans and North Americans in economic problems of Latin America. Latin American universities are deficient in this regard, and there is a scarcity of qualified professionals.

Our curriculum is deficient in certain subjects for which
we have been relying upon other departments. We find that other departments either are not interested in meeting our needs or are incapable of doing so by virtue of a different disciplinary approach. These areas are economic history, economic geography, and statistics. The course in economic history is taught by the history department and lacks the analytical content of an economics offering; courses in economic geography are rarely given by the geography department. The course in statistics now offered by the College of Business Administration is too elementary for our needs: The Curriculum Committee has recommended that we give our own courses in economic history and economic geography. They made no recommendation regarding statistics. We would be happy to see the College of Business Administration retain responsibility for statistics but hope that its content is expanded.

Another area that should be explored is the possibility of more extensive use of programmed learning, especially for the beginning course in economic analysis (Eco. 200-201). We should begin experimentation by collaborating with one of the Albuquerque enterprises in the writing of a course. Some form of branching program would be most suitable. Until the size of our staff grows, however, we do not have the spare manpower required for such activity.

The department urgently requires a consolidation and expansion of office and research space. Our activities are spread
among several, widely separated points on campus.

C. **Appointments to staff**

1. Alfred Parker, assistant professor, effective 15 September 1964.

2. Gilbert Bonem, temporary instructor, effective 15 September 1964. (Mr. Bonem has been on a part-time research appointment during the year 1963-1964.)

3. Messrs. Philip Reno and Stanley Dyas were appointed graduate assistants.

D. **Separations from staff**

1. Dr. Rosemary Griffith, effective 1 February 1964, because of illness. (We were all saddened by the untimely death of Dr. Griffith in May.)

II. **Composite of information requested on individual biographical supplements**

1. Advanced study:
   
   Professor Udis sat in on two new elementary mathematics courses and a course in data processing.

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc. during the period:
   
   Professor Hamilton was on sabbatical leave during the second semester. Professor Wollman visited several South American cities in January-February 1964 on behalf of RFF.

4. **Publications:**

   WOLLMAN, NATHANIEL
WOLLMAN, NATHANIEL (Continued)

"Economic Base Study as a Tool for Water Quality Management" Proceedings, Committee on the Economics of Water Resources.

HAMILTON, DAVID
"The Meaning of Freedom in an Industrial Civilization", New Mexico Quarterly, Spring, 1963

UDIS, BERNARD

"Input-Output Analysis and The Colorado River Basin", appearing as a paper in the proceedings of the Western Section of the Regional Science Association to be published in June 1964 by the University of Oregon Press.

THERKILDSEN, PAUL T.
Public Assistance and American Values, Division of Government Research, University of New Mexico, January 1964, 105 pages.

BOWER, BLAIR

5. Other research projects or creative work in progress or completed during period:

WOLLMAN, NATHANIEL
Completed study on water supply and demand for RFF. Director, Economic Base Study, U.S. Public Health Service grant of $174,000 for 1963-64. (Study to continue during 1964-65 under grant of $120,000.)

HAMILTON, DAVID
Reviews of Kuhn The Evolution of Economic Thought and of Gill Economic Development: Past and Present for Southwestern Social Quarterly (Scheduled)

"The Great Wheel of Wealth: A Reflection of Social Reciprocity," American Journal of Economics and Sociology (Scheduled for early 1965.)
HAMILTON, DAVID (Continued)


UDIS, BERNARD
1. Associate Director, PHS contract.
2. Study of Wage Dispersion under UNM Research Committee grant.

THERKILDSEN, PAUL T.
Study on recreation under PHS contract.

BOWER, BLAIR
Research on industrial water use under NSF grant.

LIEPE, WOLFRAM
Study on Mexican economy for W.R. Grace & Co.

CHUNG, PHAM
Department of Defense contract on strategic hamlet program in Viet Nam.

HUFFBAUER, GARY CLYDE
Revision of Ph.D. thesis for publication.

6. Activities in learned and professional societies

WOLLMAN, NATHANIEL
Member Committee on Desert and Arid Zone Research of AAAS, (resigned in May because of prospective absence from country.)

Member Nominating Committee, American Economic Association.

Discussant, annual meetings of American Economic Association (See 4c).

HAMILTON, DAVID
Chairman of Panel on "Economic Thought" at Southwestern Social Science Association Meeting, March 29, Dallas, Texas.

UDIS, BERNARD
UDIS, BERNARD (continued)

BOWER, BLAIR

7. Other professional activities:

WOLLMAN, NATHANIEL

b. President, UNM Chapter AAUP, 1962-64.

c. Member, Technical Advisory Committee, State of Maryland.

UDIS, BERNARD
1. December 12, 1963 participated in University television program.

2. March 11, 1964 participated in conference sponsored by the University's College of Business Administration for New Mexico Highway Engineers.

3. As a member of the faculty of the Southwest Management Program sponsored by the College of Business Administration discussed national labor policy and the economic effects of unionism in the U.S. in sessions held November 6, 1963 and February 12, April 15, and May 13, 1964.

4. April 29, 1964 spoke before the Albuquerque Naval Reserve Officers' Training class on aspects of the Soviet economy.

THERKILDSEN, PAUL T.
Commission on Statewide Higher Education Problems in New Mexico - Finance Committee Chairman, October 1962 - June 1964.

BOWER, BLAIR
3 lectures on water resources planning, presented on campus, March 1964.

Talk on economics of water resources to Pecos Valley Aqualantes, April 28, 1964.

HUFBAUER, GARY CLYDE
Appeared on shirt-sleeves session in November 1963 for a discussion of British foreign trade policies.

8. Non-teaching University service:

WOLLMAN, NATHANIEL
Member of Policy Committee

HAMILTON, DAVID
Freshman Adviser (Fall semester only)
Academic Freedom and Tenure Committee

UDIS, BERNARD
Member of Graduate Committee.
Served on two Master's committees and one Doctoral committee. Discussed social and economic conditions in the U.S. with Mr. Marko Kozman, member of editorial staff of the publication Komunist of Belgrade, Yugoslavia and Mr. Waldemar von Knoeringen, chairman of the Social Democrat Party of Bavaria, and former member of the West Germany Bundestag - April 29 and 30, 1964.

THERKILDSEN, PAUL T.
Economics Club - Faculty Advisor; Curricula Committee

LIEPE, WOLFRAM
Advisor for Economics majors, Semester 2, 1963-64.

CHUNG, PHAM
Advisor for freshman and sophomore students. Supervisor of a Master thesis. Member of a thesis committee.

9. Public service:

HAMILTON, DAVID
Member of Community Council, Board of Family Consultation Service, Board of Coronado Credit Union.

UDIS, BERNARD
On April 19, 1964 participated in a dramatic presentation entitled, "From Many Egyptians" presented before the kick-off dinner of the Albuquerque Jewish Welfare Fund.

THERKILDSEN, PAUL T.
Supervisory Committee, Coronado Credit Union

HUFBAUER, GARY CLYDE
Steward at St. John's Episcopal Cathedral
I. General departmental information

A. Significant achievements during the academic year 1963-64

1. CURRICULAR CHANGES

Although no new courses were added this year, the requirements for major study were completely revised. Where there were four options—"general cultural," "secondary school teaching," "writing," and the "option for those planning graduate study"—there is now a single option which provides a more uniform course of study but which allows students with special interests to pursue them. The old options specified 27 to 30 hours, 15 to be in upper division courses. The new option requires 33 hours for all students.

The History of the English Language, English 91, was renumbered 403 so as to permit it to be taken for graduate credit. Anthropology 354 (The Nature of Language) and English 292 (Introduction to Linguistics) were added as options to the major.

2. ENGLISH TRENDS

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<th>1961-62</th>
<th>1962-63</th>
<th>1963-64</th>
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<tr>
<td>Freshman writing</td>
<td>5385</td>
<td>9508</td>
<td>9518</td>
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<tr>
<td>LD Writing &amp; Ling.</td>
<td>719</td>
<td>896</td>
<td>908</td>
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<tr>
<td>LD Literature</td>
<td>1441</td>
<td>1682</td>
<td>1972</td>
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<tr>
<td>UD &amp; Graduate</td>
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<td>1058</td>
<td>1448</td>
</tr>
<tr>
<td>General Studies</td>
<td>76</td>
<td>117</td>
<td>139</td>
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<tr>
<td>English A</td>
<td>785</td>
<td>725</td>
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</tbody>
</table>

These figures indicate that, first, we have held the line with 25 in English 1 and 27 in English 2, though we are now offering four of the large lecture sections with quizzes instead of three.
The average number of students in sophomore literature sections has risen slowly, though in general we have been able to keep up with the rise. Although the lower-division writing courses have kept under 30, English 55 (Vocabulary Building) has maintained an average of 40 to 50 students per section. There has been a gradual rise in the average number of students in sections of upper-division literature. It is expected that these will, however, level off at about 40 students per section.

Needless to say, the instructors of certain popular courses whose enrollments reach 60 will not be consoled by the averages, but in the long run things are as they ought to be, and we have taken steps to alleviate the worst pressures by offering two sections of English 135 (Contemporary Fiction) and by offering both halves of the Shakespeare course each semester. The pressures on English 82 will be relieved by extra sections each semester. The two upper-division American literature courses, 168-169, will be divided to reduce the enrollments to figures closer to the average.

Freshman composition enrollments increased 5.8 percent. Upper division enrollments increased more than 35.5 percent. This jump in upper division and graduate literature is again gratifying, since it indicates that the Department of English is serving the cultural needs of the university in an increasing proportion beyond the courses required by the various colleges.
Table of the Average Numbers of Students per Section

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<th>1961-62</th>
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<tbody>
<tr>
<td>LD Literature</td>
<td>34 sections</td>
<td>37 sections</td>
<td>44 sections</td>
</tr>
<tr>
<td></td>
<td>42 students</td>
<td>45 students</td>
<td>45 students</td>
</tr>
<tr>
<td></td>
<td>per section</td>
<td>per section</td>
<td>per section</td>
</tr>
<tr>
<td>Upper-division</td>
<td>28 sections</td>
<td>29 sections</td>
<td>34 sections</td>
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<tr>
<td>Literature</td>
<td>29 students</td>
<td>33 students</td>
<td>39 students</td>
</tr>
<tr>
<td></td>
<td>per section</td>
<td>per section</td>
<td>per section</td>
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</table>

The number of students earning degrees with a major in English leapt in the past two years—25% in 1962-63, 32% in 1963-64. These figures reflect the increase in the colleges.

<table>
<thead>
<tr>
<th></th>
<th>BA minor</th>
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<td>33</td>
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<tr>
<td>1960-61</td>
<td>36</td>
<td>6</td>
<td>5</td>
</tr>
<tr>
<td>1961-62</td>
<td>44</td>
<td>35</td>
<td>5</td>
</tr>
<tr>
<td>1962-63</td>
<td>56</td>
<td>49</td>
<td>7</td>
</tr>
<tr>
<td>1963-64</td>
<td>74</td>
<td>51</td>
<td>6</td>
</tr>
</tbody>
</table>

3. THE CAREER-SCHOLAR (K-3) PROGRAM

We began the year with 15 students and ended with 12. Maria C. Byron, Mary Madeline Rowan, and Genevieve Townsend received the B.A. Genevieve Townsend also received the M.A. The complete list of those who finished the year in the program is as follows: Nanette Barrows, Emeline Beisman, Maria C. Byron, William Leon Coburn, Patricia Eogan, Gwyneth Ann Cravens, Michaels Karni, Elizabeth E. Crew, Stephanie Redd, Mary Madeline Rowan, Genevieve Townsend, and Almira Whiteside.

New appointments for the coming year include John Gray Sweeny, Myra Camburn Goff, Patricia Ann McGuire, and Janet E. McCormack.

As in the past, Miss Simons has been responsible for coordinating the program by advising students and assigning them to their preceptors. Without her efforts the program would not have been the success which it has been.
4. LECTURES AND READINGS SPONSORED BY THE ENGLISH DEPARTMENT

In the regular program series financed through the liberality of the Associated Students, we were fortunate in securing readings by Edward Dorn, Bob Creeley, Geal Turnbull, Denise Levertov, Robert Duncan, and Ron Loewinsohn.

In September John Crow of King's College, University of London, gave a series of talks on bibliography and drama under the joint sponsorship of The Career-Scholars Program, the General Honors Program, and the Department of English.

In honor of the University's 75th Anniversary a committee consisting of Hoyt Troubridge, George Arms, and Tim MacCurdy brought a group of distinguished lecturers for a Conference on the Uses of Literature, May 7-9. Reuben Brower, Herbert Davis, Louis Freiberg, Edwin Honig, and Nathan Scott were the speakers. Since Henry Steele Commager was unable to attend because of illness in his family, Professor Nash of the Department of History delivered his address.

The Department of English joined the Department of History in sponsoring a lecture by Stephen Graubard on trends in higher education.

A conference on D. H. Lawrence is tentatively planned for next year.

5. THE D. H. LAWRENCE FELLOWSHIP

For the first time, the summer fellowship at Kiowa ranch has been awarded to a musician, John Verrall. Mr. Verrall has studied at the U. of Minnesota, in London and in Budapest. He held a Guggenheim Fellowship in 1946, and was awarded the Honolulu
Academy of Arts Award for a set of orchestral variations. He is currently on the faculty at the University of Washington.

6. MISCELLANEOUS ITEMS OF INTEREST

The Library has acquired an excellent collection of American fiction from the end of the eighteenth century to 1875. For the earlier part of the collection we are indebted to the Development Committee who donated $500 to enable us to round out our holdings. These books, added to our existing holdings and to the Blair Collection acquired last year, broaden considerably the research facilities for students in American literature and in the American Studies Program.

Drama
John Russell Brown, Chairman of the Department of the University of Birmingham (England), taught a seminar in Elizabethan drama and the course in Elizabethan and Jacobean drama exclusive of Shakespeare. Professor Brown is the author of *Shakespeare and His Comedies*, editor of the plays of John Webster for Methuen's Revels Series, and author of numerous articles on the contemporary theater, on bibliography, and on Shakespearean drama. Before becoming the head of the newly created drama department at Birmingham, Professor Brown divided his time between the University and the Stratford Shakespeare Institute.

At the end of summer session, Professor Brown went to Washington as a Folger Library fellow. After returning to England, Professor Brown came back to the United States for several weeks as Mellon lecturer at The Carnegie Institution of Technology.
Our second visitor for the summer was Donald Greene, who taught the eighteenth-century course before returning to Victoria College, Toronto. Although Professor Greene was unable to accept our invitation this summer, we hope that he will return regularly in the future.

We are very much indebted to the Development Committee of the University not only for the collection of books noted above but also for a perceptoscope to assist in improving student reading speed. This machine, which cost more than $1,200, will be shared with the Audio-Visual Center for the purpose of general instruction of faculty and students interested in acquiring habits of speed reading. Deb Wylder, who suggested this purchase to the Development Committee, will train the English A staff and other interested staff members in the use of the machine.

B. Significant plans and recommendations for the near future

1. PROGRAMS

As was mentioned earlier, we hope to bring a group of scholars together with some of the people who knew D. H. Lawrence and Frieda for a conference tentatively scheduled for December. There is a possibility that we may find money to sponsor a conference of New Mexico authors in the second semester.

2. CURRICULUM CHANGES

Professor Ryan is at work with a departmental committee to consider the problems of the curriculum for the next several years. The committee's report, to be submitted before the Fall deadline for catalog changes, will concern itself with the feasibility of
remarking course-offerings so as to make some separation
between junior and senior classes, the advisability of open-
ing pro-seminars for graduate students, and the necessity of
adding course-offerings to provide a more balanced curriculum
on the upper-division and graduate level.

3. VACANCIES IN THE DEPARTMENT

The general policy of the department will be to keep up with
rising student population by hiring about two new instructors
or assistant professors each year. We are still looking for
men at the rank of assistant or associate professor to fill
vacancies in the eighteenth century and in drama. In addition,
the Personnel and Policy Committee has pointed out the need for
a publishing scholar in the Romantic period. Every effort will
be made early in the Fall to locate superior people to fill
these positions.

C. Appointments to Staff

The English Department has hired three full-time and two part-time
faculty members for 1964-65.

Miss Jane Baltzell comes to us from the Sandia Corporation. After
receiving her B.A. from Pembroke College, Brown, she received a
B.A. and M.A. from Cambridge. She also holds an M.A. from the
University of California (Berkeley) where she has also completed
requirements for the Ph.D. Her languages include Greek, Latin;
French, and German. Her interests lie in the medieval period.
Her dissertation concerns Chaucer's rhetoric.
Mr. Donald King has been appointed instructor after two years as a teaching assistant in the department. He received his BA and MA at the University of Colorado. Before coming to the University of New Mexico Mr. King held the rank of instructor in the Engineering English Department of the University of Colorado.

Mrs. Jessie Morris has been appointed instructor after three years in the department as a teaching assistant. She received her BA at Salem College and her MA at the University of Connecticut. Before coming to UNM Mrs. Morris taught in the secondary school system and held the rank of instructor in the University of Connecticut.

Mrs. Mildred Greene has received an appointment as half-time instructor. She will complete her doctoral dissertation on the novel under the direction of Professor Arms this summer.

Mrs. Edith Stemm has received an appointment as half-time instructor. She is writing a dissertation on Emily Dickinson's prosody. Part of the findings of her research has been published by the Saturday Review of Literature, and a new article outlining further lines of development has just been recommended for publication by John Ciardi.

D. Separations from the staff

Professor T. M. Pearce retires, three years before retirement age, after 37 years of service to the University.

Marcie Bullard has resigned to accept an appointment on the new campus of St. John's College (Annapolis) now being established in Santa Fe.
II. Composite of Information Requested on Individual Biographical Supplements.

1. Advanced Study

Miss Bullard, Mr. Haufleran, Mr. Wylder, and Miss Whidden have continued to work on dissertations. Miss Whidden expects to complete her requirements for the doctorate this August.

2. Sabbaticals, leaves of absence, travel, etc.

Professor George Arms and his wife have been travelling on the Continent and in England looking for letters of W. B. Yeats.

Robert Creeley served as Director of the Creative Writing Workshop in Poetry at the University of British Columbia 24 July to 15 August. He has also given readings at several universities and colleges, including the University of Arizona, Wayne State, Cornell, Colgate, Utica, Robert, Buffalo, Syracuse, and Rochester. He also gave a reading at the Guggenheim Museum.

Franklin Dickey spent the summer in Chicago on a Newberry Fellowship for research in 16th century poetry.

Morris Freedman spent several days in Berkeley and San Francisco doing research on contemporary drama.

Hamlin Hill made two trips to Berkeley to do research on the Mark Twain papers.

Professor Willis Jacobs spent the summer studying in Mexico.
3. New Scholastic honors, fellowships, etc.

George Arms received a grant-in-aid from the American Council of Learned Societies for research on W. D. Howells.

Edith Buchanan was voted Professor of the Month for October.

Robert Creeley has received a John Simon Guggenheim Fellowship for 1964-65 for poetry.

Morris Freedman was elected to Blue Key honorary organization.

Benedict Hill received a grant-in-aid from the American Council of Learned Societies for assistance in editing The Gilded Age. He also received the University of New Mexico Development Committee faculty fellowship for continued research on Mark Twain.

A short story by Professor Willis Jacobs, "Treason in English 1," was included on the roll of honor in the 1963 edition of Best American Short Stories.

Mary Bess Whidden was elected to Phi Kappa Phi.

Professor Joseph Zavadil received a grant-in-aid for research on Chaucer at the Huntington Library.
4. Publications


--- Poetry in The Moderns, New York: Corinth.

--- Interview in The Sullen Art, New York: Corinth.

--- Publication in The Nation, Poetry, etc.


--- Review in Winter issue, 1963-64 New Mexico Quarterly.

DICKEY, FRANKLIN M. Poems in the New Mexico Quarterly.


--- "Sett Loringood's Dream," The Loringood Papers (1963), 61-64.


- "Treason in English I" listed on the roster of Distinguished Short Stories in American Magazines for 1962.
- "Ionesco's The Chairs," The Explicator, February 1963, XXII, No. 6, pp. 3-5.
- Five reviews accepted by New Mexico Quarterly.


- "Shakespeare's Classical Characteronyms," The Shakespeare Newsletter, XXXI (December 1963), 50.
- Naming Customs Among Southwestern Indians," The New Mexico Folklore Record, XX (1964-65).


5. Other research projects or creative work in progress or completed.

George Arna
- Editorial Adviser, College English (term ending December, 1963).

Mary Jane Cook
- Article just completed and submitted: "Harrilson Cooccurrences in Subjunctive Structures with wish."

- Textbook in progress: English as a second language (handbook and drills, intermediate level).

Robert Freely
- Option from Scribners for a second novel, The Market Place.
- Contract for a critical work on Charles Olson from Twayne for their U.S. Author's series.
Norton E. Crouse
In progress, a second book on Robert Browning.

Paul B. Davis
Work in progress on Defoe's satiric techniques.

Franklin M. Dickey
Work in progress on Elizabethan prosody.

Morris Freedman
In progress, study of modern drama.

Hamlin Hill

Willis D. Jacobs

Joseph M. Kurtz
In progress - An Anthology of World Literature

T. M. Pearce
Mary Hunter Austin, for Twayne's United States Authors Series; completed December 15, 1963. 185 pp.

Ernest W. Tedlock

Hoyt Trowbridge

Delbert E. Wylder
Dudley Wynn

Joseph B. Zavadil
Article on Middle English "Patience" near completion. Investigation of Chaucer's Man of Law's Tale to be continued and completed at Huntington this summer.

6. Activities in learned and professional societies

George Arms
Attended Modern Language Association meeting, December 1963 (Chairman of Nominating Committee, American Literature Group).

Ernest W. Baughman

Edith Buchanan
Treasurer for Phi Kappa Phi (University of New Mexico Chapter), University Associate for the American Council of Learned Societies.

Mary Jane Cook
Attended NAFSA Regional Conference, Nov. 11-16, Fort Collins. Speaker, English Language Section. College Entrance Examination Board Workshop on Admission of Foreign Students, Feb. 20-21, 1964, Austin, reporter, "Tests for Measuring Academic Aptitudes, English Language, etc." Tucson Conference on Teaching English to Speakers of Other Languages, May 8-9, 1964; member of panels on "Inservice Training for Peace Corps Volunteers" and "Methods and Materials for Teaching English as a Second Language." Invited as speaker on communication theory at NAFSA National meeting, April 29-30, 1964, Minneapolis.

Robert Creeley
Was invited to read at the Ruth Stephen Poetry Center at the University of Arizona. In April-May he read at Wayne State's Contemporary Arts Festival, at the Guggenheim Museum in New York, and for the Upstate New York Poetry Circuit -- a tour of readings which took him to Cornell, Colgate, Utica College, Robert, Buffalo, Syracuse, Corning Community College, the N. Y. State Colleges of Education at Potsdam and Oswego, and to Rochester.

Paul Benjamin Davis
Member, bibliography committee, Literature and Society Section, MLA.
Franklin M. Dickey

Morris Freedman
Paper on creative writing, HMLA, Fall 1963, Denver.

Karen Hill

Willis Dana Jacobs
Member: MLA; ETE; CEA; ALAS; AUP.

Katherine C. Simon
New Mexico association of teachers of English; attended April meeting.

Thomas M. Pearce

Hoyt Trombridge

Delbert E. Wylder
Attended HMLA meeting in Denver, Colorado (October, 1963) as Chairman of American Literature Section, Chairman of New Mexico HMLA Committee on Standards for Teacher Certification. Member of Bibliographical staff of 20th Century Literature: A Scholarly Quarterly.

Joseph E. Zavodil
Chairman, Section of Teaching, at HMLA Meeting in Denver last October.

7. Other professional activities.

E. W. Baughman
Mary Jane Cook
Consultant in language and linguistics (Advisory Committee Staff), Albuquerque Public Schools (just organised). Peace Corps instructor in English, WNM (temporary, Fall Terms, 1963-64). Off-campus talks and appearances at various organization meetings.

Paul B. Davis
Executive Board, AAUP. Delegate to State AAUP Convention, Silver City. Panelist on Shirtsleeve Session, Channel 5. Consultant on the novel for World Book Encyclopedia.

Morris Freedman
Panel moderator, Jefferson Junior High School, Spring 1964.

Harlin Hill
TV interview with Dick Gregory.

Katherine C. Simons

Boyt Troubridge

Delbert E. Wylder
Consultant to Sandia Corporation in "Efficient Reading" and "Effective Presentations" courses. Speech to Albuquerque Local of American Federation of Teachers.

Dudley Wynn
Address to Oklahoma Conference on Honors, Univ. of Oklahoma, Norman, April 30-May 1, 1964: "Trends in Honor." Continuing member of Executive Committee, Inter-University Committee on the Superior Student (Carnegie Corporation). Continuing as member of regional selection committee, Woodrow Wilson Fellowships.

Joseph B. Zavadil
Lecture on "The Meaning of Liberal Education" at Newman Center in February.

8. Non-teaching University service

George Arms

Robert Creeley
As director of the program series brought Edward Dorn, Gael Turnbull, Denise Levertov, Robert Duncan, and Ron Loewinsohn to the campus for poetry readings.

Norton B. Crowell
M-3 tutor for Mr. Chadwick in Semester I, 1963-64.

Paul D. Davis
Member Student Publications Board; General Honors Advisor;
M-3 advisor to Mary M. Rosen; Judge, Creative Writing Contest;
Judge, Terceletti competition; Scheduling Committee, Department of English;

Marvin Freeman
P & P Committee, Department of English. M-3 tutor for Alma Mikolai. Member, sub-committee of Graduate Committee on honorary degrees. General honors advisor. Helped plan conference on city planning.

William R. Hezalon
M-3 tutor for Mr. McManes. Semester I, 1963-64.

Haslam Hill
M-3 tutor for Isaac Coburn.

William J. Jacobs
Chairman, Comparative Literature program. Advisor, Comparative Literature and English Department students. Chairman, Poetry Trust. M-3 advisor for Genevieve Rosenblatt. Chairman, English Department Freshman Committee.

Joseph Michels
Faculty Advisor, University College. Extension, Summer Session, and Community Services Committee. Arts and Sciences Scholarship Committee. M-3 tutor for Patricia Hagan.

Sharon M. Renne
M-3 tutor for Edna C. Ryan.
Katherine G. Simon
Department of English, Policy and Personnel Committee. Subcommittee, Policy and Personnel, for revision of master's and doctoral program, Department of English. Departmental coordinator, Career Scholar Program.

Ernest W. Tedlock
Department committee on revision of graduate program. M-3 Tutor for Emeline Beisman.

Noyt Exowbridge

Delbert E. Wylder

Dudley Wynn

Joseph Zavadil
Member of Department Committee on Graduate Requirements. Committee for M.A. examination. Director, Creative Writing Contests. Member Committee degree evaluation for department. Member AAUP committee for salary study. Member University Curricula Committee. Manuscript evaluation for New Mexico Quarterly. Faculty Advisor Newman Club. M-3 tutor, Sem I, Roberta O'Neill; Sem II, Gayneth Cravens.

9. Public service

Edith Buehman
Patron of Santa Fe Opera.

Willie D. Jacobs

Delbert E. Wylder
Lectures in Literature and Composition at Highland and Sandia High Schools. Judge of short story contest at Sandia High School.

Joseph B. Zavadil
Sponsor for Married Students Group, Newman Center.
10. Personal information

Norton B. Crowell
Son, Donald Edward Crowell, born October 18, 1963.

Paul E. Davis
Daughter, Catherine Cunningham, born October 19, 1963.

Willis D. Jacobs
Major, United States Air Force Reserve.

NOTE: A departmental supplement will follow.
I. General departmental information

On July 1, 1963, Professor Miguel Jorrín resumed the directorship of the Division of Foreign Studies, replacing Professor Marshall Nason.

A new graduate program in International Affairs was added in the second semester of the academic year. The program is offered as an interdepartmental major, and the candidates will work on two of the following fields: Diplomatic History, International Politics, Law and Organization, International Economic Relations, and Comparative Governments.

Starting in February, 1964, the Director served as Coordinator for Area Studies in the Peace Corps Training Center of the University. These duties include supervision and teaching in the programs for Venezuela and Chile. This added responsibility required the appointment of three new graduate assistants, who acted as Discussion Leaders. These were Messrs. Mark Simmons, Edward Neil Harper, and William Binford, all graduate students at the University.

As the Division of Foreign Studies does not have a staff, see for new appointments the reports of the departments that offer courses in our curriculum.

II. Composite of information requested on individual biographical supplements.

4. Publications: JORRÍN, MIGUEL:

   Book: Latin American Political Thought (1800-1900), 1964 (104 pages, mimeographed).


5. Other Research: Completed three more chapters of book, Latin American Political Thought.
6. Activities in learned and professional societies.

7. Other professional activities. Lecturer and consultant for Peace Corps at Denver University in October, 1963 and March, 1964.
   Lecturer and consultant for Peace Corps at the University of Nebraska in November, 1963.

I. General departmental information.

A. Tentative approval has been given for starting a graduate program in geography in the near future.

B. A major concern in the department has been the plans for starting an M.A. program. We have received numerous inquiries about graduate opportunities here in geography, not only from students in this country but from abroad. It is regrettable, and a loss, to have to refer these students to universities in neighboring states where graduate programs exist. Then, too, it is plainly going to be difficult to attract and keep a good teaching staff without having a program beyond the undergraduate level.

One problem must be solved, however, before we can proceed to establish a graduate program: the curricula committee in reviewing the plans advised that an M.A. program cannot be adequately supervised in a department with less than four full-time members. The third will join the department for the year 1964-65. We are hoping that without further justification in enrollment figures, which have consistently increased, provision will be made for a fourth geographer in 1965-66.

C. Dr. Marjorie Sweeting of St. Hugh's College, Oxford University, was appointed Visiting Professor, February 1964.

Mr. Cyril Everard, Lecturer at Queen Mary College, University of London, and recipient of a Fulbright travel grant, was appointed Visiting Scholar, July 1963.
D. Dr. David Harris of Queen Mary College, University of London, who taught in the department last year on an exchange basis, left in July, 1963.

Mr. Everard returned to England in January, 1964, and Dr. Sweeting at the end of June.

II. Composite of information requested on individual biographical supplements.

1. Yi-Fu Tuan was advanced in rank from Assistant Professor to Associate Professor.

2. B. L. Gordon travelled in southern Italy and studied at the University of Freiburg during the summer of 1963.


5. Mr. Cyril Everard did research on climate and landforms in the Estancia Basin, on the historical geography of Albuquerque and its environs, and wrote "Our Climate" in the December issue of Albuquerque Progress.

Dr. Marjorie Sweeting did research and field work on the landforms of the Pecos River valley.

Yi-Fu Tuan continued his studies of the climate of New Mexico under the State Resource Development Plan.

Miss Ynez Hasse, who was research assistant in the department during the Spring semester, worked on an historical atlas of New Mexico which she plans to have published by the UNM press.
B. L. Gordon completed a third and final landuse study for the Jicarilla Apache Indians and continued research on the Albano-Italian and Waldensian colonies of southern Italy.

6. Dr. Yi-Fu Tuan attended the Denver meeting of the Association of American Geographers in Sept. 1963, and read a paper on "Mountains, Ruins and Sentiment of Melancholy."

B. L. Gordon was panelist at the Dallas meeting of the Association of American Geographers in March 1964.

7. Dr. Yi-Fu Tuan talked to the Newman Club on "Chinese and Western Attitudes Toward Nature"; to the Mortar Board on "Chinese Calligraphy"; and to Women's Service Guild, St. John's Methodist Church, on "Christianity in China."

B. L. Gordon revised the article on New Mexico for World Book Encyclopedia, gave four lectures for the Peace Corps, and lectured for Phi Sigma (Biology).

8. Dr. Yi-Fu Tuan served on a doctoral examination committee for the Geology Department. B. L. Gordon served on two doctoral examination committees and two M.A. committees.
The Report of the Department of Geology
July 1, 1963--June 30, 1964

Vincent C. Kelley, Chairman

I. General Information

A. Significant Achievements

The Department of Geology granted 7 bachelor's degrees, 5 master's degrees, and 1 doctor of philosophy degree. Enrollment in our beginning courses for the year totalled 1340, up 20 per cent over the previous year. For the first year since 1959 enrollments in our required undergraduate courses showed good increases. Structural geology and field geology were up more than 30 per cent, and mineralogy and paleontology were up 25 per cent. To help with laboratory instruction the department had 7 Graduate Assistants and 4 fractional-time Laboratory Assistants throughout the year.

The severe depression that has affected all earth science departments since about 1959 has corrected itself. Job opportunities for all our graduates this year have been at least two to one. It appears that this ratio may increase sharply in the next year and that the employment incentive for students to come into geology will again be strong. Therefore, we are anticipating a rise in enrollment in the junior-level major courses next fall.
The gradual revision and upgrading of our curriculum, which was begun last year, has been stepped up this year. Last year the Geology Department was one of 40 in the country whose curriculum was studied by a national team under the auspices of the American Geological Institute. In accordance with general recommendations made by the Institute, based on their national findings, and the recommendations arising out of a study of our curriculum made by Dr. Riebsomer of the UNM Curricula Committee, we are taking a big step ahead through recommendations to the College and to the Curriculum Committee. If approved, these changes will improve both the B.A. and the B.S. and will include the following principal changes:

a. Introduction of a higher-level General Geology one-semester course of 5 hours covering both Physical and Historical Geology, open only to science and engineering majors.

b. Require of all B.S. candidates a minimum of one year of calculus and one semester of statistics

c. Establishment of options in physical, chemical, and biological areas of geology that require additional science or mathematics background, according to the option.

Thus, a B.S. geology major intending to go into mineralogy or geochemistry will have a minimum of
2 years of mathematics above college algebra and trigonometry, 2 years of chemistry, and 1½ years of physics; and a B.S. major in paleontology 1½ years of mathematics, 2 years of chemistry, and about 2 years of biology.

d. General strengthening of the bachelor of arts geological requirements while still retaining considerable choice among outside courses and the minor.

Our B.S. graduates under the proposed curriculum will automatically have a distributed minor, and some may have one or two other minors. It should be pointed out that these changes will place us well above the national average of requirements for the bachelor's degree.

Peter J. Coney received the fourth Ph.D. degree to be granted by the Department. His difficult and painstaking studies of the High Andes of Peru have been supported through the past four years by University Fellowships, a Socony Mobil Scholarship, a Pan American Petroleum Foundation Fellowship, and the Peruvian Government. He will begin teaching in the fall at Middlebury College, Vermont.

Douglas W. Kirkland, who received our third Ph.D. a year ago and who has this year been an NSF Post-Doctoral Fellow in our department, has accepted a position in the Socony Mobil Oil Company's Research Laboratory in Dallas.
Dr. Kirkland has worked this year with Dr. Roger Y. Anderson on an NSF Research Grant for the study of varved evaporites.

The New Mexico Geological Society and the Roswell Geological Society contributed $1305 in the form of 9 "Grants in Aid of Research" to graduate students for such necessary thesis research items as thin sections of rocks, chemicals, aerial photographs, and field expenses. Dr. Vincent C. Kelley represents these societies in the recommendation of recipients and in the approval of the amount and nature of the grants. The grants awarded are as follows:

**New Mexico Geological Society**

<table>
<thead>
<tr>
<th>Name</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Russell E. Bailey</td>
<td>$ 80.00</td>
</tr>
<tr>
<td>Bruce A. Black</td>
<td>100.00</td>
</tr>
<tr>
<td>Steven E. Farkas</td>
<td>100.00</td>
</tr>
<tr>
<td>Paul W. Lambert</td>
<td>150.00</td>
</tr>
<tr>
<td>Hamed El. Shatoury</td>
<td>150.00</td>
</tr>
<tr>
<td>John W. Shomaker</td>
<td>100.00</td>
</tr>
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</table>

$ 680.00

**Roswell Geological Society**

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<tr>
<th>Name</th>
<th>Amount</th>
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<tr>
<td>Robert C. Burton</td>
<td>$ 150.00</td>
</tr>
<tr>
<td>Walter E. Dean</td>
<td>75.00</td>
</tr>
<tr>
<td>Tommey B. Thompson</td>
<td>$ 400.00</td>
</tr>
</tbody>
</table>

$ 625.00

In the graduate-undergraduate area two of our students were supported by Ford Foundation Career Scholar grants. These were John W. Shomaker, $2,000, and Frederick J. Jenkins, $250. Peter J. Coneney received a Pan American Petroleum Foundation Fellowship of $3,600 awarded to a terminal
doctoral candidate intending to go into college teaching.

Steven E. Farkas was granted $575 for aid in his dissertation studies by The Society of the Sigma Xi and RESA Research Fund.

Fred R. Yale was awarded the Socony Mobil Scholarship in Geology of $500. John D. Speth received the Aztec Oil & Gas Company Scholarship of $400, and John W. Blagbrough was awarded the Albuquerque Gem and Mineral Club Scholarship of $150 for the second year.

Dr. Roger Y. Anderson and research assistants actively pursued their studies of varved sediments and ancient climates in the second year of his second NSF grant on this subject.

Dr. Edgar F. Cruft made application to the National Science Foundation for a $71,000 Emission Spectrograph but was unsuccessful owing to the Foundation's having insufficient budget to support such a request. Dr. Wolfgang E. Elston has submitted a large proposal to NASA for support of his volcanic and tectonic studies in the Mogollon region of New Mexico.

Dr. Elston attended a special New York Academy of Sciences Conference on "Geological Problems in Lunar Research" as an invited speaker and sessions chairman, May 16-19.

Efforts are continuing to get support from industry for our equipment needs, and contributions totalling $4,000 have been obtained this year. Unsolicited small amounts have been received from geology alumni.
Dr. Vincent C. Kelley served on a doctoral committee and participated in the defense of thesis examination for a student at the University of Texas on May 11.

During the past year the Physical Plant has extensively renovated our large basement space, mostly in Room B-1, for Civil Defense Fallout Shelter space. The rooms have been cleaned, painted, lighted, and fitted with fold-down naval bunks. Although we have suffered some loss of space for storage, it is believed that the overall benefit to us, the University, and the public is worthwhile. An extra door was put into our map room and the room itself was divided by a wire-frame partition in anticipation of need for an extra laboratory in the fall. Room B-10 was converted to an office for Dr. Rosenzweig and Dr. Cruft moved into Dr. Rosenzweig's old office, Room 129. We are beginning spur of the moment moves into space originally planned for other uses, and the results do not appear to me in all instances to have been the most efficient or most useful, although urgently required at the moment.

The Department this year sponsored a 5th Visiting International Scientist under the program established by the American Geological Institute. Our visitor was Dr. Umberto Colombo from the G. Bonogani Research Institute, Milan, Italy. He was here May 4-12 and delivered six lectures on geochemistry.
and related topics. He took part in numerous discussions
with students, staff, and industry representatives while on
campus. Two other foreign scientists on the same program,
Dr. Hendryk Mac Gillavry of the Netherlands and Dr. Christoffer
Ofte Dahl of Norway, made informal visits to the department.
Dr. E. J. Searle of the University of Auckland, New Zealand,
visited on campus in February and took trips in the field
with Dr. Kelley. Dr. Walter Buecher of Columbia University
and Humble Research Laboratory visited in May, spoke to a
large group of students, and took a trip with Dr. Elston to
the Arizona Meteor Crater.

The geology students successfully petitioned for reactiva-
tion of a Student Chapter of the American Institute of
Mining, Metallurgical, and Petroleum Engineers. This chapter
had been started by Dr. Vincent C. Kelley and the geology
majors in 1940 but fell inactive during the war. About 30
students are presently members and are affiliated with the
Central Section located at Grants, New Mexico. Mr. G. R.
Griswold of Albuquerque is Section Advisor and Dr. Vincent C.
Kelley is Faculty Sponsor of the Student Chapter. The
Student Chapter sponsored one meeting of the Central Section
on campus and featured Dr. Eugene M. Shoemaker, Director of
the Astrogeology studies for NASA, as the speaker.
Mr. Patrick Moore, world British authority on surface features of the Moon, visited the department and conferred with Dr. Elston and others concerning lunar geology May 21-25.

The National Honorary Society, Sigma Gamma Epsilon, was especially active during the year with Dr. J. Paul Fitzsimmons as its Faculty Advisor. The highlight of their year's activities was a week's field trip to Death Valley accompanied by several staff members.

Close cooperation of the U. S. Geological Survey continues to be enjoyed. During the year, geology students and staff have spent hundreds of hours in their library in connection with studies and research. Some part-time employment has been obtained also. Consultation on numerous geological problems of our students has been given by many of the Survey professionals. They have freely allowed our students and staff to use photogrammetric, photographic, field, and other equipment. Mr. Charles B. Read, through the permission and courtesy of the Director of the Survey, has taught classes at a nominal cost and served on several thesis and dissertation committees.

One of our graduate students, John P. Bradbury, working under supervision of Mr. Read, made a most unusual fossil fish find in the Kinney Brick pit in the Manzanita Mountains.
These first Permian fish found in North America have attracted specialists from the Smithsonian Institution and the Survey. A memoir covering all aspects of the occurrences is planned in which the Department of Geology will collaborate with the Smithsonian and the Survey.

The Geology Museum continues to be visited by ever-increasing numbers of persons, more than 75 organized groups involving 2,100 individuals having taken advantage of its facilities this year. There is no way to estimate the number of students and casual visitors who view the exhibits, but the Museum is almost constantly in use. Our Graduate Assistants serve as guides for the organized groups for tours lasting from 30-45 minutes each. (See the report of the Curator of the Museum for further information about the Museum.)

Dr. J. Paul Fitzsimmons was promoted to the rank of Professor beginning in the 1964-1965 school year. The Department was granted a half-time technician to help care for equipment, collections, maps, etc., and we are looking for someone for the job.

B. Plans and Recommendations

1. Additional space is now our number-one need. It has been 11 years since we moved into our new building. At that time the staff and personnel consisted of four full-time staff, one secretary, and about four Graduate Assistants.
Next year the staff will be eight plus two Faculty Associates, one secretary, two student aides, one part-time technician, and nine Graduate Assistants. We have completely used up spare office space, appropriated some storage and work space for offices, and taken over storage and other small rooms for labs, special research projects, and equipment rooms. We need more space for graduate student study cubicles, an additional freshman lab, a geochemical lab, another office, an equipment and supply stock room and a micropaleontology lab. We are currently crowding into the wrong places. We have the space in our building on the second or third floors.

So long as the U. S. Geological Survey rents the second floor the third floor is our objective. We propose that the engineers be moved to other space, if possible, and that we take part of the space for our needs and negotiate for rental of part of the space to the U. S. Geological Survey until our need arises for the rest of the third floor. We could easily use all the space of the third floor. The way we are currently chopping up our space is unfortunate.

2. Put the Geology Building on a reasonably dust-proof air-conditioning system. This becomes more and more critical with the acquisition of expensive, precision equipment. That is especially true for geochemical equipment such as spectrographs which deal with trace amounts of elements. Room 122,
the large lecture hall, is not even hooked into the present "air (dust!) conditioner". A fan, of sorts, is available for the room, but those who have tried it maintain that it really makes the room hotter.

3. Increase our equipment budget. About six years ago when I polled other departments in the Rocky Mountain area we were four to five thousand dollars behind the average, per year. This means that we have by now fallen behind even more. Our unusual requests in the areas of geochemistry and X-ray analysis have robbed other needs, and pressure is building up for equipment needed in the petrographic, geomorphic, and petroleum areas.

C. Dr. Edgar F. Cruft joined the staff as geochemist in September of 1963.

D. No separations from the staff were made during the year.

IX. COMPOSITE OF INDIVIDUAL BIOGRAPHICAL SUPPLEMENTS

1. Advanced Study

None

2. Sabbaticals, etc.

Roger V. Anderson. Leave of absence, Semester X, 1963-64, for research and report writing on previous research, collecting trip to Mexico.

Wolfgang E. Elston. Summer work, New Mexico Bureau of Mines and Mineral Resources.

J. Paul Fitzsimmons. Collecting trip to Coast Range of California for eclogite and glaucophane schists; examination of Coast Range batholith and Sierra Nevada batholith.


3. Honors, etc.


Edgar F. Cruft. Received Walker Mineralogical Prize, Canada, 1963.

Sherman A. Wengerd. Invitation to be listed in British "Dictionary of International Biography".

4. Publications

Anderson, R. Y., Note the Nautilus, Coronado Press, Lawrence, Kansas, 28 p.


Rosenweig, A., (with E. J. Graeber), The unit cell of hodgkinsonite, Sandia Corporation Research Rpt. #4964.

Rosenweig, A., (with Bruno Morosin), The crystal structure of gallium niobate, Acta Crystallographica (in press).


5. Other research projects, etc.

Roger V. Anderson. NSF Research Grant GP-742, Climatic Cycles and Patterns in Varved Sediments, Two-year, $22,900.

Wolfgang E. Elston. Submitted $130,000 research proposal, "A comparative study of lunar craters and terrestrial volcanotectonic depressions in rhyolite ash-flow plateaus;" to NASA, status undecided at present. Studies of tectonics of Mogollon Plateau and comparison with Moon crater Theophilus, direction of movement of ash flows (with D. L. Giles), and value of shatter cones as evidence for meteorite impact (with P. W. Lambert).

J. Paul Fitzsimmons. Investigation of orbicular structures in rocks, particularly orbicular granite in the Sandia Mountains.

Vincent C. Kelley. Research on geology of Canjilon caldron sink; geology of Sandia Mountains; tectonics of the Sierra Blanca region; mechanics of Basin-Range deformation; geology in vicinity of Lake City, Colorado; fractures and joints in rocks.

Abraham Rosenzweig. Research completed or in progress on the unit cell of krausite (with E. J. Graeber), the unit cell and morphology of spangolite, the crystal structure of caledonite (with J. J. Finney), structural patterns in secondary copper minerals, investigations on a new copper-bearing clay mineral, and the crystal structure of 4-marcapto, 8-bromocinnoline.

Sherman A. Mengerd. Research on raised features of the Guayman region, Sonora, Mexico; geology of the Cuanza Evaporite Basin, Angola, P.W.A.; geology of the Northwest Paradox Basin Shelf, Utah; Oceanographic Instrumentation for teaching of Marine Geology; revision of Manual of Sedimentology for publication; literature research on Duero-Ebro geosyncline, northern Spain; research and writing of article on Ridgway Till of SW Colorado for publication in Bulletin of Geol. Soc. America (with K. F. Mather).

6. Activities in Societies


Cruft. Member, The Geochemical Society; Member, Mineralogical Society of America.

Elston. President, N. M. Geological Society 1963-64, presided over annual field trip and annual meeting; attended Geological Society of America meeting in New York; gave two papers and presided over two sessions at New York Academy of

Kelley. Member; U. S. panel of International Committee on Study of Gypsiferous Terranes; Advisory Board, U. S. Bureau of Land Management; Resolutions Committee, New Mexico Mining Assoc.; Program Committee, American Mining Congress; Student Relations Committee, AIME; Executive Committee, Rocky Mountain Section of American Association of Petroleum Geologists. Chairman: Student Grants Committee, New Mexico Geological Society; Constitution Committee, Albuquerque Geological Society; Nominating Committee, Rocky Mountain Section, Geological Society of America. UNM Representative, Student Grants Committee, Roswell Geological Society. Vice President, Albuquerque Geological Society.

Attended: American Institute of Mining and Metallurgical Engineers meetings, October 1963, November 1963; New Mexico Mining Association meeting. Invited to: write papers for New Mexico Geological Society 15th Field Conference Guidebook and Reinhold Encyclopedia of Earth Sciences; write paper and give talk "Tectonics of Wyoming Thrust Belt" for AAPG.

Rosenzweig. Attended: Conference on X-ray diffraction and Analysis, Denver Research Inst.; Western Association of Graduate Schools; Midwest Conference on Graduate Study and Research, Chicago.
Wengerd. Lecture on "Sedimentary History of the Ridgway Till and Superjacent Strata, San Juan Mountains, Colo." to Rocky Mountain Section of GSA. Principal Leader, Four Corners Geol. Soc. 4th Field Conference. Became charter member of the Marine Technology Society.

7. Other professional activities

Anderson. Applicant and liaison official for NSF Undergraduate Scientific Teaching Equipment Grant.


Fitzsimmons. Field talks at YMCA summer camps.

Kelley. Appointed National Science Foundation consultant for examination and review of building facilities; Geological Society of America Manuscript Critic; University of Texas Dissertation Critic and Defense of Thesis Committee Member.


Rosenzweig. Lecture and seminar participation, El Paso summer institute; Consultant, Sandia Corporation.

Wengerd. Foreign consultant in Petroleum Exploration to Petrofina International in Cuanza Basin, Luanda, Angola, P.W.A.; Served on National Science panel for Distribution of Equipment Funds to Upgrade Geology Departments in United States Universities;
reappointed to National Association of Geology Teachers Committee on Education.

8. Non-teaching University service

**Anderson.** Chairman, Committee on Paleocology; member NASA Traineeship Award Committee, Student Standards Committee.

**Elston.** Publications Committee, University Coll. Advisor.

**Fitzsimmons.** University College Advisor, Library Committee, ad hoc Library subcommittee on specific needs in library holdings in scientific fields.

**Kelley.** UNM Water Resources Committee, Athletic Council, Physical Plant Committee for Geology, Arts & Sciences Dean's Advisory Committee, M-3 Coordinator, M-3 Tutor, Advisory Committee on Teacher Education.

**Northrop.** Curator, Geology Museum.

**Rosenzwaig.** Assistant Dean of the Graduate School, NASA Predoctoral Traineeship Committee (chairman), Entrance & Credits Committee, Graduate Committee —or officio, Subcommittees on foreign language requirement, honorary degrees.

**Wengerd.** In charge of AAPG Distinguished Lecturers visiting UNM, Speakers Bureau of UNM for 75th Anniversary, Athletic Council, Campus Safety & Civil Defense Committee, UNM Advancement Committee.

9. Public service

**Anderson.** Lectures to Griegos School on New Mexico geologic history.
Kelley. Chairman of Rotary Club of Albuquerque Student Guest Committee.

Northrop. President, Harvard-Yale-Princeton Club; identified many fossils for the public.

Wengard. Church Council, First Congregational Church; free consultations for Chaparral Girl Scout Council and Museum of New Mexico.
The Report of the Department of Government  
July 1, 1963 – June 30, 1964 
E. C. Hoyt, Chairman

I. General Departmental Information

A. There were no major changes in curriculum. The Course in Methodology and Bibliography, a required course for graduate students, was opened also to specially qualified undergraduate majors, as it was thought that this research training would be valuable particularly to undergraduate departmental honors candidates in the writing of Honors Theses. Gov. 363 (Latin American Political Theory) was added, to alternate with Governments of Latin America.

The Department was given responsibility for three segments of the Peace Corps Training Program: United States Institutions, World Affairs, and Contemporary Ideological Conflicts. The budget for this part of the Peace Corps Program made possible the appointment of an additional instructor in the field of International Relations. Three Government faculty members will be released from one course each to teach these subjects for the Peace Corps Training Center.

B. None

C. Harry P. Stumpf, presently teaching at Colorado State University, whose fields are American Government and Constitutional Law, was appointed Assistant Professor of Government effective
September 1964, Unja Lee was appointed Instructor in Government, to teach a segment of the Peace Corps Program, assist with lower division courses, and teach a new course in Governments and Politics of the Far East.

II. Composite of information requested on individual biographical supplements.

1. Advanced Study:

WOLF, T. PHILLIP. Continued writing dissertation, which hopefully will be accepted late this summer.

2. None

3. New Scholastic Honors:

CLINE, DOROTHY I. Possibly, selection by Las Campanas as Professor of the Month (March) might be considered a scholastic honor?

4. Publications:


IRION, FREDERICK C. Reapportionment and Districting in New Mexico (Albuquerque: Division of Government Research of the University of New Mexico, 1964). In two volumes, totalling 105 pages; produced by Gestefax-Gestetner process.


5. Other research projects:

HOYT, EDWIN C. Research on the relation between international law and foreign-policy decisions: completed 67 page manuscript, "National Policy and International Law: Case Studies from American Canal Policy".

IRION, FREDERICK C. Assisted both the Court and the Legislature in matters of reapportionment of the New Mexico House of Representatives.

JUDAH, CHARLES B. War in the North, with George Winston Smith, completed and accepted for publication in Spring of 1965. In progress: a monograph on N. M., Designating Convention as a Representative Assembly.

JORRIN, MIGUEL. Completed three more chapters of book, Latin American Political Thought.


6. Activities in learned and professional societies:


IRION, FREDERICK C. Chairman, social science section, Rocky Mountain and Southwestern Division, American Association for the Advancement of Science; Member, Editorial Board, Western Political Quarterly, 1964-66; State rep., Western Govt. Research Assn; State Rep., Nat. Municipal League; Member, Committee on Western Politics of Western Pol. Science Assn.


WOLF, T. PHILLIP. Joined the following during the year: American Society for Public Administration – active in local chapter, Southwest Political Science Association, International Political Science Association.

7. Other professional activities:

HOYT, EDWIN C. Talk, Nov. 1, 1963, to United Church Women of Albuquerque on "The United Nations as a Channel for Peace". Another talk on the United Nations at Christ Methodist Church. Participated in several panel discussions, KHFM and Channel 5 TV. Series of lectures on World Affairs to Peace Corps trainees.

IRION, FREDERICK C. Attended annual meeting of Western Political Science Association, Salt Lake City, March, 1964. Attended annual meeting of Rocky Mountain and Southwestern Division of the American Association for Advancement of Science, Lubbock, April, 1964; delivered paper as well as chairing social science section meetings.


CLINE, DOROTHY I. 4 off campus speeches; 12 refused. Member of panel on City Planning for the Honors Program. Advised League of Women Voters' State Constitutional Revision Commission.

8. Non-teaching University service:

HOYT, EDWIN C. Chairman, Department of Government; Advisor to Government Majors; Administrative Committee; Dean's Advisory Committee; Chairman, 75th Anniversary Lecture Series, "New Thinking About the Cold War"; Coordinator, Peace Corps Training in U. S. Institutions, World Affairs and Contemporary Ideological Conflicts.

IRION, FREDERICK C. Member, University Library Committee; Member; ad hoc Water Committee headed by Professor Clark of Law School; Director, Division of Government Research.

JUDAH, CHARLES B. Publications Committee; American Studies Committee; Freshman Advisor.

JORRIN, MIGUEL. Coordinator of Area Studies, Peace Corps Training Center, UNM, Semester II, 1963-1964.

WOLF, T. PHILLIP. University College Advisor.

CLINE, DOROTHY I. Member United Fund Committee; 75th Anniversary Committee (UN - Community); Planning Comm., Christians & Jews Annual Conference, Member of Supervisory Board Government Research, until resignation.
9. **Public Service:**

HOYT, EDWIN C. Co-Chairman of Albuquerque Committee for United Nations Week 1964.

IRION, FREDERICK C. Principal witness for reapportionment in the court case involving the New Mexico House of Representatives; Member of Citizens' Conference on New Mexico Courts (June 11-13, Albuquerque).
I. General Departmental Information

A. Significant Achievements

1. Program in Chinese, Japanese, and Far Eastern Diplomatic history begun under Professor Uké.

2. Increased emphasis on the history of central and western continental Europe under Professors Rothenberg and Sonino.

3. The following courses added to the curriculum effective Semester I, 1964-65:
   a. History 353, Africa
   b. History 356, The Near East
   c. History 367, The U.S. From Reconstruction to 1898
   d. History 500, Seminar in Historical Research Methods
   e. History 554, Seminar in Far Eastern History

4. Activities beyond the formal curriculum:
   a. Phi Alpha Theta regional conference on campus, April 17-18, 1964, with delegates from five southwestern institutions besides UWI.
   b. A History Club organized to appeal to campus and to supplement, not replace, Phi Alpha Theta.
c. Lectures by prominent historians: Joe B. Frantz, University of Texas; Henry S. Commager, Amherst; Stephen Graubard, Harvard.
d. Preliminary talks with representatives of University of Guadalajara on cooperation arrangements.
e. Continued cooperation with General Honors and Career Scholar programs.

5. Honors:
   a. Two of UNM's four Woodrow Wilson Fellows are History students -- Robert Morris and Charlie Steen.
   b. History majors Haven Tobias and Robert Morris honored by Phi Beta Kappa.

6. Promotions:
   a. William M. Dabney to Professor.
   b. Gerald D. Nash to Associate Professor

7. New Mexico Historical Review brought under History Department.

B. Significant Plans and Recommendations for the Near Future
1. New man in British History to replace Professor Sacks.
2. Additional graduate assistants -- one for each 5% increase in History enrollment.
3. Additional office space required for staff members for the 1964-65 academic year.
4. Office space for graduate assistants.
5. Miscellaneous new furniture for staff.
6. Modest beginning of offerings in African and Near Eastern History, to provide better-rounded History program (see I,A,3 above).
C. Appointments to Staff

1. Frank C. Stuart appointed Visiting Assistant Professor of History, effective July 1, 1964.

2. Donald Skabelund appointed Assistant Professor of History, effective July 1, 1964.

3. Michael Meyer appointed Visiting Assistant Professor of History, Summer 1963.

D. Retirements and Resignations


XI. Composite of information requested on individual biographical supplements:

1. Advanced Study


2. Sabbatical, Summer Teaching, Travel, etc.

   a. LIETUNEN, E. Sabbatical leave academic year 1963-64.

   b. SMITH, G. Sabbatical leave academic year 1963-64.

   c. CUTNER, D. Taught Summer Session 1963 at University of Southern California.

   d. DABNEY, W. Taught Summer Session 1963 at UMA.

   e. FLOYD, T. Research, Bancroft Library, Berkeley, Summer 1963.


   g. TOBIAS, M. Research in Russian archives, New York City, Summer 1963.
3. New Scholastic Honors, Fellowships, Etc.
   a. DARNEY, W. Elected Honorary Member, Khatali Chapter, Blue Key.
   b. IKLÉ, F. Awarded American Philosophical Society grant for research in Japan on Japanese Diplomatic History.
   c. NASH, G. UNM representative - Standard Oil Company Faculty Seminar, June 1964, San Francisco.

4. Publications
   A. Books and Monographs

   3. NASH, G. Expanding Horizons: A Pictorial History of UNM (Albuquerque, 1964) with Gunther Rothenberg

   B. Articles


17. TEBROWSKI, R. "The History of the Bund and Its Historians" (English), Under the Zeitz, May or June, 1964, 14 pp.

C. Book Reviews


3. CUTTER, D. Dorsey, Never the Golden City in Hispanic American Historical Review, August 1963.


6. CUTTER, D. Martinez, Historia de Baja California in Hispanic American Historical Review, November 1963.


A. Completed

1. CUTTER, D. Book Tadeo Haenke y el final de una vieja polémica (with Mauricio Destefani), in press (Buenos Aires, Departamento de Estudios Historicos Navales).


5. NASH, G. "The California State Land Office," accepted by Huntington Library Quarterly.


7. NASH, G. "Some Problems of Western Economic History" — under consideration.


10. ROTHENBERG, G. "A Note on Dr. Johnson's 'Vanity of Human Wishes,'" accepted for publication.

11. ROTHENBERG, G. "San Jelačić, the Croatian Military Border, and the Intervention against Hungary in 1848," accepted for publication.


B. In Progress


2. CUTTER, D. Research on the nature of land tenure and distribution by the Spanish as it affected the Indians of New Mexico.
3. DABNEY, W. Research in the papers of Charles Stewart.


8. NASH, G. "Government Regulation of Railroads: A Historiographical Review"

9. NASH, G. "The American Administrative System: An Interpretation"


11. ROTHENBERG, G. "The Victory of the Counter Reformation in Inner-Austria"


14. RUSSELL, J. "Recent Advances in Medieval Demography"

15. RUSSELL, J. "The Preplague Population of England"


17. SONNINO, P. Revision of Dissertation for possible publication.

18. TOBIAS, E. "History of the Jewish Bund, 1897-1907"

19. TOBIAS, E. "The Leadership of the Jewish Bund, 1897-1920"

6. Activities in Learned and Professional Societies


g. ROTHENBERG, G. Commentator in session on "The Origins of East European Nationalism" Pacific Coast Branch meeting of American Historical Association, August 1963.


7. Other Professional Activities


b. DRAHEY, W. Lecturer, Peace Corps Training Center.


d. NASH, C. Member, Board of Editors, New Mexico Historical Review. Advisory Board, Schenkman Publishing Company.

e. ROTHENBERG, G. Elected Associate, Historical Research and Evaluation Organization (HERO), Georgetown.

f. TOBIAS, M. TV Lecture, Dept. of Philosophy. Lecturer, Peace Corps Training Center. Judge, History Contest sponsored by Boys' Academy.
8. Non-Teaching University Service

a. CUTTER, D. NDEA Screening Committee. Faculty Research Committee. Research Lecturer Committee. Dean's promotion review committee. Debate judge for regional debate tournament. Spoke to Latin American Desk. Departmental majors advisor. M-3 tutor. Read two book length manuscripts for UNM Press. Spoke to UNM Faculty Wives Newcomers section. Member of Editorial Board of New Mexico Historical Review.

b. DABNEY, W. Acting Chairman, Department of History, Summer 1963, Academic year 1963-64. Member, American Studies Committee.

c. FLOYD, T. Coordinator, M-3 Program, Department of History; Freshman Adviser.

d. IKLE, F. Lecture to Mortar Board. Lecture to Phi Alpha Theta. Departmental T.A. Screening Committee.

e. NASH, G. Graduate Committee. Sub-Committee on Graduate Standards and Criteria. Executive Committee, 75th Anniversary, Chairman, Historical Committee, 75th Anniversary, Undergraduate Adviser, American Studies Program, University College Adviser. Faculty Adviser, Phi Alpha Theta.

f. RILEY, G. Member, 75th Anniversary Executive Committee.

g. ROTHENBERG, G. Freshman Adviser, University College.

h. RUSSELL, J. Sophomore adviser.

i. SULLIVAN, P. Sub-Committee on Fellowships: Graduate Committee. High School Senior Day History Department Representative.

j. TOBIAS, H. Faculty adviser, History majors, Honors freshmen.

9. Public Service

a. CUTTER, D. Appeared on Project 7 TV program on KOAT-TV. Christian Education Committee member, Immanuel Presbyterian Church. Chairman, Historical Collections Committee of New Mexico Historical Society. Dinner speaker at Immanuel Presbyterian Mariners meeting.

b. DABNEY, W. Various speeches to civic and educational groups, including a TV program (KNME-TV) for the Society of Mayflower Descendants, and a speech to the Honors Assembly, Valley High School, Albuquerque. Vestryman and Lay Reader, St. Mark's Episcopal Church.
c. FLOYD, T. First Vice President, the Albuquerque Asso-
ciation for the United Nations.

d. IKLE, F. TV Lecture on Professor A. Bahlm's series of
Oriental religion, on Chinese Legalist Philosophy.

e. NASH, G. Panel Member, Conference on Religion, Newman
Center. Chairman, Affiliate Liaison Committee, New
Mexico Historical Society.

f. ROTHENBERG, G. Member, Liaison Committee, New Mexico
Historical Society.

g. RUSSELL, J. On boards of New Mexico Association for
Retarded Children and Albuquerque Association for Re-
tarded Children. Talks at Lutheran Student Center and
Albuquerque Library Association.
1. General departmental information

A. During the year journalism majors again won several hundreds of dollars in awards from the William Randolph Hearst Foundation, San Francisco, for written work published professionally, largely in the Albuquerque daily newspapers. Over a two-year period these awards now total $1400.

For its size, the department has available a considerable amount of money each year for grants and awards. This includes $1000 a year from The Albuquerque Journal, for outright grants to students, and $300 in awards, gifts from professional societies.

Because it has been unable to secure an adequate allotment of funds for library purchases, the department made a gift to the Library of $400 from its Hearst awards during the year, for the purchase of books in journalism. This was possible because each student's prize is duplicated by a gift to the department from the Foundation.

An interesting change was a 20 per cent increase in enrollment in journalism in Semester I, and an 11 per cent increase in Semester II, over the corresponding semesters of the previous year.

Through the use of some of the Hearst Foundation money the department increased the size of its reference library in the Journalism News Room, so that students now have immediate recourse to about 36 volumes of information, needed in work with news material or in copyediting. This library includes dictionaries (Webster's Third as well as Second, and others); Fowler and other books on usage, a Roget's and the 1964 World Almanac, an excellent new world atlas showing practically all of the new African nations, three who's who volumes of different kinds, the 1963 Statistical Abstract of the United States, the 1960 Demographic Yearbook (UN), H.L. Mencken's Book of Quotations on Historical Principals, and The American Thesaurus of Slang. Some of these were gifts. The development of this reference collection is in line with recommendations of the American Council on Education for Journalism.
B. The department must gradually expand its offerings, because of increasing enrollments and student demand for new courses, sectionalizing some courses and laboratory sessions, and adding in a small way some faculty assistance each year. Thus, in the fall of 1964, it will be necessary to bring a professional to the department as lecturer in one two-hour freshman course. This entails little expense and appears to offer no problem.

C. The only probable appointment to the staff is indicated in B. above.

D. No separations from the staff are contemplated.

2. Faculty activities, publications, and honors

A. Professor Jermain revised the departmental and student newspaper style sheet during the year, and began work on possible programs for Channel 5 to be produced through Sigma Delta Chi, of which he served as president, New Mexico professional chapter, calendar year 1964. He was elected president following a year as vice-president, and spent his fourth year as a member of the society's board of directors. He supervised an exhibit of historic newspapers in the New Mexico Union's first-floor exhibit case, and spoke during the academic year at the Western Alumni Editors' regional conference in Albuquerque, and at Valley high school career day. His committee work included chairmanship of the UNM registration committee, and membership in the Arts and Sciences scholarship committee. He served the undergraduate chapter for the 11th year here as adviser, and was a University College adviser through the year. Mr. Jermain was judge of two competitions in the year: a regional contest among college alumni magazines, and a contest for press chairwomen among women's clubs in Albuquerque, this latter sponsored by the Albuquerque professional chapter of Theta Sigma Phi, for its Matrix banquet.

B. Professor Rafferty lectured during the summer short-course, for the third successive summer, at New Mexico Highlands University, under sponsorship of The Wall Street Journal's Newspaper Fund. His biography was included in the International Dictionary of Biography, London, as well as in Who's Who in the West and the Directory of American Scholars. He was during the year
a member of the editorial advisory board of Journalism Quarterly, published at the University of Minnesota by the American Association of Schools and Departments of Journalism and the Association for Education in Journalism. He was chairman of the AASDJ's ad hoc committee on Hearst Foundation Awards, and was an alternate member of the accreditation committee of the American Council on Education for Journalism, as well as chairman of an accreditation check-list subcommittee of the ACEJ. He was the author of an article, "The Will Harrison Case," in the June, 1964, issue of The Quill of Sigma Delta Chi, professional journalism society, Chicago. He was again a judge in the Scripps-Howard spelling bee, and spoke before the Quill and Scroll society of Farmington high school in April, 1964. In August, 1963, he was a delegate to the AEJ-AASDJ convention at the University of Nebraska.
The report of the Department of Mathematics is one of continued growth, both in size and in excellence. There were 5,534 students and 17,078 student credit hours during this year, as compared to 5,505 students and 15,438 student credit hours last year, for a gain of 29 students and 1,640 student credit hours. This is particularly striking in view of the fact that the Astronomy courses were taught in the Physics Department instead of the Mathematics Department for the first time this year.

I. GENERAL DEPARTMENTAL INFORMATION.

A. SIGNIFICANT ACHIEVEMENTS.

The two major NSF Research Grants, under Kolodner and Blum, continued actively in the Department. This has enabled us to provide reduced teaching loads for all those in the Department who are engaged in research activities. The promise of this continued support also enabled us to make excellent new appointments for the coming year, as will be detailed below.

The University of New Mexico Mathematics Department Research Report series continued in full swing and approximately sixty such reports have been issued. These reports are circulated in mathematics departments throughout the country and by now are
well known. They have certainly helped tremendously in raising the prestige of this Department throughout the country.

A new small NSF Grant was obtained by Professor Epstein, and it is expected that this will continue in the future.

In addition, the NSF is again supporting a Summer Institute for High School Teachers with Dr. Gentry as director. Since Dr. Gentry will be leaving this year, it is expected that Dr. Mitchell will carry on this activity. In addition, Dr. Mitchell is directing an Institute for Jr. High School Teachers this summer and an In-service Institute for Jr. High School Teachers during the coming academic year. Both of these institutes are also being supported by the National Science Foundation.

A committee headed by Professor Epstein made a thorough revision of the upper division and Graduate courses. These changes are now in effect and while we believe that there will be need for further revision in the graduate level, the Department feels that, in general, the course offerings are in excellent shape. The following courses have been added:

120. Elementary Mathematics for the Social Sciences. (5)
1551. The Teaching of Jr. High School Mathematics. (3)
472. Fourier Series and Integrals. (3)
482. Introduction to Topology and Modern Analysis. (3)
531-2 Differential Geometry. (3)
650. Reading and Research.

Two Ph.D's and five Master's Degrees were granted during the year, as follows:
Wallace Franck and Chaitanya Swarup received the Ph.D., and Christopher Hardy, Charles Harner, Fred Gutierrez, Pauline Maguire and Anthony Warren received the Master of Arts degree.

B. SIGNIFICANT PLANS AND RECOMMENDATIONS FOR THE NEAR FUTURE.

At the present time we feel that there are two major areas which need attention in the near future. One of these is Statistics. While we feel that the upper division and graduate program in Statistics is in reasonably good shape there is a great need throughout the University for a two semester pre-calculus elementary statistics course. Ideally, this should be taught with a laboratory section and, consequently, there is need for the purchase of several additional hand computers. If this should be accomplished, there will be a need for an additional room for a Statistical laboratory.

The other area to which we have paid relatively little attention in the past is Numerical Analysis and Computer Sciences. At the present time the Department is considering the possibility of requiring the new programming course which has been established by the Engineering School for all mathematics majors. In addition, there is need for courses in computer logic and design and several additional courses in numerical analysis. We hope to set up a new Bachelor's program in mathematics with emphasis on computing and numerical analysis. We also hope that the University will move in the direction of a graduate program in computer sciences in the very near future. While we have made offers to new Ph.D's in
Numerical Analysis we have not been able to obtain a man in this field, as yet.

C. APPOINTMENTS TO STAFF.
Professor Bernard Epstein and Assistant Professors Melvin Janowitz and Burt Morse joined the Department in the Fall of 1963. In the Fall of 1964 Associate Professors Melvin Katz and Lambert Koopmans, and Assistant Professors Nathaniel Friedman, Reuben Hersh, and Irvin Lynn will join the Department.

D. SEPARATIONS FROM STAFF.
Professor I. I. Kolodner resigned effective August 15, 1964 to accept the Chairmanship of the Department of Mathematics at the Carnegie Institute of Technology.

Professor Frank Gentry will be on leave of absence effective August 15, 1964 and has accepted a position at the University of the Pacific for the coming academic year. The understanding is that if Professor Gentry likes his new location he will retire from the University.

II. INFORMATION FROM BIOGRAPHICAL SUPPLEMENTS.

1. ADVANCED STUDY.
Mssrs. Carr, Moore, Tarwater, and Wagner continued their study towards the Ph.D., and it is expected that Mssrs. Moore, Tarwater, and Wagner will receive their Ph.D. next year.

2. SABBATICAL LEAVES, ETC.
Professors Kolodner and Dubois were on Sabbatical Leave during the academic year. Professor Dubois spent the year in Vienna and Professor Kolodner spent the year in Albuquerque, but attended numerous meetings and gave a number of invited addresses.
Professor Epstein has been appointed as an Office of Naval Research Scientific Adviser in London and will be gone for fifteen months beginning June 15, 1964.

Professor Abbott has been appointed as a staff member of the Graduate Research Center of the Southwest in Dallas and will be on leave for the academic year 1964-65.

Professor Steger will be on sabbatical leave during the first semester of 1964-65.

3. NEW SCHOLASTIC HONORS, ETC.

Edwin Wagner received a NSF Co-operative Graduate Fellowship.

4. PUBLICATIONS.


'On the Antitone Mappings of a Poset', Proceedings AMS (to appear);

'On the Coefficient of Variation', with L.H. Koopmans and D.B. Owen, Biometrika,


Eugene Steiner: 'Lattices of Linear Topologies', Portugaliae Mathematica;
'Lattices of Normed Topologies', Portugaliae Mathematica;
'On Finite Dimensional Linear Topological Spaces', Math. Monthly;

Oswald Wyler: UNM reports: No. 46 Weakly Exact Categories (submitted to Archiv der Math.).
No. 54. Clans (submitted to Compositio Math.),
'Exteter Diff. Calculus and Maxwell's Equations. To be included in
volume of M.A.A. Lectures.


5. OTHER RESEARCH PROJECTS.


J. R. Blum: A number of papers in preparation, several accepted. Chief Investigator of NSF Research Grant.


'A convergence Theorem for bounded operators.

Roger Entringer: Two papers submitted to American Math. Society for publication.


J. V. Lewis: Research on an Averaging Method for Estimation of Coefficients in a Differential Equation from a Solution with Error.


Melvin Janowitz: Two papers being refereed by professional journals, two papers that have not been submitted for publication, and four papers near completion.

J. Rosenblatt: On NSF Grant completed three articles with J. R. Blum which are submitted for publication, 'On Some Problems Requiring Purely Sequential Schemes', 'On Sampling from a Stochastic Process', 'On the Use of A Priori Information'.

H. Renggli: 'On Maximal Riemann Surfaces (Submitted) Research supported.

A. Steger: Preliminary Results on Arithmetic in n-Regular Rings and Ideal Theory in such rings.
Oswald Wyler: Contract Sandia Corp., Integration on Clans and Tribes. (work in progress).

6. ACTIVITIES IN LEARNED AND PROFESSIONAL SOCIETIES.

a) Meetings Attended.


b) Offices held.

J. R. Blum: Vice-President AAUP, UNM Chapter.

c) Papers read, and invited addresses.

James Abbott: 'Foundations of Information Theory' at New Mexico State University. 'Topics in Information Theory' at Field Research Laboratory, in Dallas.

J. R. Blum: Invited addresses at Eugene, Oregon and Chicago, Ill.

R. C. Entringer: Paper read at MAA Meeting.


J. V. Lewis: Paper read AMS Meeting, Reno, Nevada.


J. D. Tarwater: Read paper at MAA Meeting.

Oswald Wyler: Lecturer for M.A.A.

7. OTHER PROFESSIONAL ACTIVITIES.

James Abbott: Continued talks with high school students.

J. R. Blum: President Coronado Credit Union. Consultant at Sandia Corporation.


Frank Gentry: Consultant Aztec Public Schools and Santa Fe School-Community Survey. Spoke at meeting of N.M. Council of Teachers of Mathematics.


J. Rosenblatt: NSF Lecturer at Texas Christian University and Iowa State. Writing Text Book on Calculus with Modern Geometry, with J. R. Blum, J. V. Lewis, and S. Bell.

O. Wyler: Reviewer for Mathematical Reviews.

8. NON-TEACHING UNIVERSITY SERVICES.

During the year, various members served on the following committees: Sub-committee of Graduate Committee on Language Requirements, Insurance and Retirement Committee, United Fund Committee, Extension Committee, Committee on Revising Mathematics Curriculum, Library Committee, Radio Board, Executive Committee.

All full time members were advisors at one level or another.

William Eberly and Judah Rosenblatt had starring roles in the University of New Mexico production of The Magic Flute.

9. COMMUNITY SERVICE.

William Eberly: Member of Choir, First Presbyterian Church.

Merle Mitchell: Sunday School teacher at Immanuel Presbyterian Church; Board Member of Martineztown House of Neighborly Service.

Oswald Wyler: Board member of Mariners' group at Immanuel Presbyterian Church.
I. General departmental information

A. Significant achievements.

1. The department has operated an NDEA subsidized Academic-Year Institute under contract with the U. S. Office of Education for the fifth consecutive year. The contract called for the training of 20 secondary school teachers of Spanish, but one teacher withdrew after a few weeks.

Another contract also involving the training of 20 teachers has been signed for 1964-65. Dr. Sabine R. Ulibarri will continue to be the director of the Institute.

For the first time the department also operated during the summer of 1963 a second-level NDEA Summer Institute for 52 Spanish teachers in Quito, Ecuador. The contract has been renewed for another Summer Institute in 1964 in Quito involving 52 teachers. Dr. Ulibarri will direct the Institute for the second time.

2. A graduate program leading to the Master of Arts Degree in French was begun in September, 1963. Ten graduate students were enrolled in this program which will eventually alleviate the shortage of
well-trained high school teachers of French in the state.

3. The department continued to be involved in the language program of the Peace Corps Training Center on the campus. Professor Albert R. Lopes became coordinator of the language program in January upon the signing of a new contract with the Peace Corps. As part of their training, participants in the NDEA Spanish Teachers Institute attended a daily session of Peace Corps Spanish classes.

4. Plans were made to offer an alternate to our present first-year Spanish courses. Beginning in September, 1964 there will be two optional sequences in first-year Spanish. (1) An oral sequence which will be directed toward the acquisition of skills in the oral use of the language. This sequence does not differ from the first-year Spanish courses as they are presently taught. (2) A reading sequence which will stress the acquisition of grammar and reading skills, although the oral skills will continue to be cultivated through weekly sessions in the language laboratory.

Students who have had two years or more of high school Spanish will not receive credit for the first semester of either the oral emphasis course
(101) or for the reading emphasis course (103); however, they may receive credit for the second semester of either sequence (102 or 104).

Plans have also been made to place new students in most language courses (Spanish, French, German, and Russian) in accordance with their performance on placement tests. Local high school students have already been given the language placement tests.

B. Significant plans for the near future.

1. Heretofore, during the regular academic year the department has offered courses leading to the Master of Arts in Teaching Spanish only to members of the Spanish Teachers Institute, since the U. S. Office of Education has not permitted regular graduate students to enroll in the Institute classes. For that reason, graduate students interested in working for the MATS could take courses required for the degree only during summer sessions. However, permission has recently been secured from the U. S. Office of Education to permit a small number of regular graduate students to enroll in the Institute classes in 1964-65. This arrangement will permit graduate students who are interested primarily in high school teaching to pursue a graduate program more in keeping with their immediate professional aims.

2. The departmental faculty has approved a proposed
undergraduate major in German which will be submitted next fall to appropriate administrative officials and committees for approval. If the proposed major is approved, it will be put into effect for the academic year 1965-66. The growing number of German minors and students enrolled in advanced German classes indicates that the German major is highly desirable. Moreover, the department feels that it has a responsibility to provide solid training in German in order to meet the small but ever-increasing demand for well qualified German teachers in the state.

3. The department will also offer a proposal in the fall for the creation of a minor in Russian. Although the number of advanced Russian students is small, it is believed that the possibility of securing a minor will encourage more students to continue their study of the language. The minor in Russian will provide a stronger supporting program for the present major in Russian Studies.

C. Appointments to staff.

1. Dr. Charles N. Staubach, presently Visiting Professor of Applied Linguistics, has accepted a reappointment for one year (1964-65).

2. Dr. Julian E. White has been appointed Assistant Professor of French beginning in September, 1964.

3. Mr. Robert E. Holzapfel has been appointed Assistant
Professor of German beginning in September, 1964.

4. Mrs. Tamara Holzapfel has been appointed Assistant Professor of Russian and Spanish beginning in September, 1964.

5. An Assistant Professor of Portuguese will be appointed shortly to replace Mr. Silviano Santiago, who is returning to Brazil.

6. Mrs. Laura Calvert, after resigning as the Director of the Spanish program in the Peace Corps, returned to the department as a part-time Instructor for the second semester, 1963-64. Effective September, 1964, she will return to the department as a full-time Instructor and will be in charge of the first-year Spanish oral emphasis program.

7. Mrs. Lise Hoshour was appointed part-time Instructor in French after registration in September, 1963. She will return in the same capacity in 1964-65.

8. Mr. Jon Tolman has been appointed Director of the phonetics laboratory beginning in September, 1964, to replace Mr. Enrique Cortés, who is returning to Mexico.

D. Separations from staff.

1. Mr. Silviano Santiago, Instructor in Portuguese, will return to Brazil after the end of the present academic year (1963-64).

2. Miss Anne Fessenden, Instructor in French on a one-
year appointment, will leave the University upon the completion of this academic year.

3. Dr. Paul Rogers, Visiting Professor of Spanish during the academic year 1963-64, will return to his position at Oberlin College at the end of the academic year.

4. Mr. Enrique Cortés, Director of the phonetics laboratory for the past two years, will return to Mexico at the end of the Summer Session, 1964.

II. Composite of information on individual biographical supplements

1. Advanced study.
   a. Mr. Enrique Lamadrid has been on leave of absence for a second year at UCLA where he is working on the doctorate.

2. Sabbaticals, leave of absence, teaching elsewhere, and travel.
   a. Dr. Robert M. Duncan spent the year in Spain on sabbatical leave.
   b. Mr. Rubén Cobos taught at Stanford University during the Summer Session of 1963.
   c. Dr. Truett Book spent the summer of 1963 in France where he did research on Chateaubriand.
   d. Mrs. Claude Book also spent the summer of 1963 in France where she carried on research on Théophile Gautier.
3. New scholastic honors, fellowships, etc.

a. Mr. Rubén Cobos was given a Burl Ives Award at the 27th Annual Folk Festival held in Covington, Kentucky in June, 1964.

b. Dr. Robert M. Duncan received a Fulbright research fellowship to work in Spain.

4. Publications.

Books:


Articles:


"Los prólogos de Galdós", Hispania (September, 1963), p. 665 (a review).

"El mundo poético de Juan Ramón", Las Últimas Noticias (August, 1963), (a review).
Newspaper column, "Aquí se habla español", Las Ultimas Noticias (2 Nov.; 16 Nov.; 29 Nov.; 30 Nov.; 9 Dec.; 28 Dec.; 8 Jan.; 22 Jan.; 1 Feb.; 5 Feb.; 29 Feb.; 14 March; 1 April; 11 April; 17 April ---).


"Tragic Hamartia in La próspera y adversa fortuna de don Alvaro de Luna," Hispania, XLVII (1964), 82-90.

f. Sabine R. Ulibarri, "No somos extranjeros en el Ecuador," published in 10 newspapers and magazines in Ecuador, 1 page.


5. Research and work in progress or completed.

a. Mrs. Claude Book has finished Theophile Gautier et L'Hôtel des Haricots and is in the process of writing A. Préault et Theophile Gautier, une amitié fidèle.

b. Professor Truett Book is collaborating with Professor E. E. Haden on the book Oral French. He is also preparing a paper to be read at the RMMLA meeting next year on Lovenzaccio as well as doing general research on Musset.

c. Mrs. Laura Calvert has completed an article entitled "The Role of Written Exercises in an Audio-lingual Program". She is also preparing a workbook to accompany the text Modern Spanish (in collaboration).

d. Professor Rubén Cobos continued work on "La copla española en Hispanoamérica" and is also doing research on the Spanish language in New Mexico.

e. Professor Ned J. Davison is preparing the following manuscripts for publication:

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"Eduardo Barrios", Encyclopedia of World Literature in the Twentieth Century; "The Composition of La vida inútil de Pito Pérez", Romance Notes; "Zorrilla, Darío and 'Yo soy aquel!'", Romance Notes; "La poesía de José Gorostiza", Symposium (a review); "Reflecciones sobre la musicalización de la poesía", Atenea; "El niño en la novelística de Eduardo Barrios". He is also doing research on "The Meaning of 'modernismo' in Spanish American Criticism".

f. Professor William F. J. DeJongh has completed an edition of Roger Martin du Gard's Les Thibault which will be used as an intermediate French textbook.

g. Professor Pelayo H. Fernández is preparing a book on Miguel de Unamuno.

h. Professor Raymond R. MacCurdy has recently completed an edition of Tirso de Molina, El burlador de Sevilla and La prudencia en la mujer to be published in Laurel Editions.

i. Professor Charles N. Staubach has completed a revision of Teaching Spanish: A Linguistic Orientation with Robert L. Pulitzer (Ginn and Company). He is also revising his books First-Year Spanish and Second-Year Spanish with J. W. Walsh and Jane M. Eldon (Ginn and Company).

j. Professor Sabine R. Ulibarri has completed a volume
of short stories in Spanish and a volume of poetry.

6. Activities in learned and professional societies.
   a. Mrs. Claude Book read a paper entitled "Theophile Gautier et l'Hotel des Haricots" at the Phi Sigma Iota (Romance Language Honorary) meeting in April, 1964.
   b. Professor Truett Book was the chairman of the Language II Group for the Rocky Mountain Modern Language Association, secretary of the local AAUP Chapter, and president of the Alliance Français. He also served as faculty sponsor for Phi Sigma Iota, the Romance Language Honorary.
   c. Mrs. Laura Calvert attended the national MLA meeting in Chicago.
   d. Professor Rubén Cobos attended conventions of the California Folklore Society, New Mexico Folklore Society, and the American Folklore Society.
   e. Professor Ned J. Davison attended the RMMLA meeting where he read a paper entitled "Reflections on the Musicalization of Poetry: An inquiry into the implications of Symbolist poetics." He also attended the Rocky Mountain Council on Latin America meeting in Denver where he read a paper entitled "'La Nueva Solidaridad' and the New Generation of Artists in Latin America".
   f. Professor Albert R. Lopes attended the Portuguese Language Development Conference in Austin, Texas.

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g. Professor Raymond R. MacCurdy served as chairman of the Literature Section of the American Association of Teachers of Spanish and attended the 1963 meeting in Chicago. He also served as secretary of the Spanish Golden Age Section of the Modern Language Association and attended the 1963 meeting in Chicago.

h. Professor Sabine R. Ulibarri read a paper to the bilingual section of the NMEA: "Children and a Second Language."

7. Other professional activities.

a. Mrs. Claude Book directed a production of Théophile Gautier's *Pierrot Posthume* for the Alliance Française. She also served as consultant for the Teaching Machines, Inc. program of teaching English to French-speaking Canadians.

b. Professor Truett Book delivered a talk to the Alliance Française on "Medieval French Art" and was in charge of the Distribution de Prix (prizes awarded by the French government to outstanding students of French).

c. Mrs. Laura Calvert produced a series of radio programs about the Peace Corps for station KABQ.

d. Professor Rubén Cobos delivered a lecture entitled "Christmas customs of old New Mexico" and illustrated his lecture by singing some old *villancicos* and *pastorelas*, in November, 1963 to the NDEA Institute.
e. Professor Ned J. Davison spoke to Phi Sigma Iota in December, 1963 on "The 'Nadaísta' manifesto".

f. Professor William F. J. DeJongh cooperated with the Junior Classical League of New Mexico in composing five tests which were used in competitive examinations during the League's convention in Albuquerque, April 3 and 4, 1964.

g. Professor Pelayo H. Fernández delivered a talk on Unamuno and William James to members of El Primero Club. He also gave lectures on Spain to the NDEA Institute in January and to the Latin American Desk.

h. Professor Raymond R. MacCurdy served as a compiler for the MLA Lope de Vega Bibliography Project (years 1940-42).

i. Mrs. Ingrid J. Parker served as a consultant for Teaching Machines Incorporated in the summer of 1963.

j. Professor Charles N. Staubach addressed the Modern Language Teachers of the New Mexico Education Association in October. He also gave lectures to the NDEA Institute, Pan American Club, Broadway Congregational Church. He attended the Modern Language Conference at Eastern New Mexico in Portales where he delivered two lectures.

k. Professor Sabine R. Ulibarri lectured to the following groups: Lions' Club, Latin American Desk, Pan-American Round Table banquet, Los Aficionados...
banquet, Peace Corps, NDEA Institute, Highland High School Spanish Club, NMEA Teachers' Convention, Business Women's Association. He also appeared on a TV program on Ecuador and gave many speeches to government, social, and civic groups while he was in Ecuador with the NDEA Institute.

8. Non-teaching university service.
   a. Mrs. Claude Book
      Café-Causette
      Alliance Française
      Making of tapes for phonetics laboratory (French)
   b. Professor Truett Book
      Faculty Adviser
      Theses Committee
   c. Mrs. Laura Calvert
      Coordinator, Spanish Instruction, Peace Corps Training Center (to January 31)
      Assistant Director, Quito Institute
   d. Professor Rubén Cobos
      Cultural Committee
   e. Professor Ned J. Davison
      Director, departmental M-3 Career Scholar program
      Faculty Adviser
      Allocations Committee of Greater New Mexico Development Fund
   f. Professor William F. J. DeJongh
      Cultural Program Committee

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g. Professor Pelayo H. Fernández  
Faculty adviser

h. Professor Albert R. Lopes  
Chairman, NDEA fellowships  
Director, Ibero-American Studies  
Co-ordinator, Languages, Peace Corps Training Center

i. Professor Raymond R. MacCurdy  
Publications Committee  
Academic Freedom and Tenure Committee

j. Professor Donald A. McKenzie  
Graduate subcommittee on language requirements  
Administers Language Examination to graduate students  
Adviser to non-degree students  
Publications Committee  
A and S Scholarship Committee

k. Professor Sabine R. Ulibarri  
Credit Committee, Coronado Credit Union  
Director, NDEA Institute, 1963-64  
Director, Quito Institute (1963)  
Director, NDEA Institute, 1964-65  
Director, Quito II Institute (1964)  
A and S Advancement Committee

l. Mrs. Rosemarie Welsh  
Faculty Adviser

a. Mrs. Claude Book
March of Dimes
Arthritis and Rheumatism Drive

b. Professor Truett Book
YMCA Fund Campaign

c. Professor Donald A. McKenzie
Arrangement of lectures and public appearance of
Rolf Goetze, editor Radio in American Sector,
West Berlin
Arrangement of classroom lectures and conferences
with students by Dr. Renatus Weber, Ministerial
Direktor, Deutsche Bundesrepublik


a. Professor Pelayo H. Fernández announced the birth
I. General Departmental Information.

A. Significant Achievements.

New Offerings. The following new courses were proposed and approved:

(1) A new freshman-level course, Problems in Religion and Ethics, to deal in an elementary way with problems of concern to many students just reaching college.

(2) A junior-level course in Symbolic Logic to supplement the more elementary sophomore course in formal logic.

(3) A junior-level course in Philosophy of Religion.

Television Offerings. Philosophy 1 and 2, Humanities, continued through 1963-64 as a pretaped series of televised lectures with H. G. Alexander as host. Philosophy 63-64, Comparative Religions, was also televised, with A. J. Bahm as chief lecturer and host for guest lecturers. Both courses were supplemented by classroom discussion and quiz sessions.

Use of Lawrence Ranch Facility. Philosophy 429 [129], Aesthetics Institute Workshop, made use of the recently constructed Lobo Lodge on the Lawrence Ranch, and also the Harwood Foundation building in Taos, for its annual presession meeting, June 15-19, 1964. The staff this year included Dr. F. David Martin, Chairman, Department of Philosophy, Bucknell University; Dr. Anil K. Sarkar, Senior Lecturer of Philosophy, University of Ceylon, and Visiting Professor of Philosophy at the University of New Mexico; Dr. A. J. Bahm, University of New Mexico; and Dr. H. G. Alexander, Director of the course.
B. Significant Plans and Recommendations.

A Report is being prepared by the Chairman of the Department to present (1) the general purpose of a department of philosophy, (2) the present condition of this department at the University of New Mexico, and (3) recommendations based thereon. To summarize here some of the main points of that Report, the University of New Mexico is failing to take advantage of the potentialities of the Department of Philosophy with regard to (1) wider requirements in logic, (2) the addition of a combined major with some science department, (3) the development of a Ph.D. program, (4) utilization of occasional distinguished visiting philosophers as part of the regular life of the campus community. As a further recommendation, the strengthening of the department in terms of staff is strongly urged, and should be a top priority consideration.

C. Appointments to Staff.

Dr. Anil K. Sarkar was appointed Visiting Professor of Philosophy for Semester II, 1963-64 as a replacement for Dr. M. G. Evans who was on sabbatical. Dr. Sarkar has a Ph.D. and a D. Litt. both from Patna University. He has been Senior Lecturer in Philosophy at the University of Ceylon since 1944.

D. Separations from Staff. None.

II. Composite of Information Requested on Individual Biographical Supplements.

1. Advanced Study. (See item 2)

2. Sabbaticals, leaves, travel, etc. Dr. M. G. Evans was awarded a sabbatical leave for Semester II, 1963-64. He
has spent this leave at home working primarily on a text for
symbolic logic. Dr. H. G. Alexander and Dr. A. J. Bahm
attended the Thirteenth International Congress of Philosophy
in Mexico City, September 1963. Dr. J. A. Snedden taught
summer session at Washington University, St. Louis, Missouri,

3. New Scholastic Honors. Dr. Bahm has been made Honorary
Research Advisor, Institute of Philosophy, Psychology, and
Psychical Research, Rajpur, Dheradun, India.

4. Publications.
(a) Books and Monographs.

ALEXANDER, H. G., Philosophical Thought and Expression,
accepted for publication by D. Van Nostrand Co.

privately published.

BAHM, A. J., The World's Living Religions, Dell Publishing
Co. Scheduled for publication in October, 1964.

BAHM, A. J., Yoga for Business Executives and Professional

accepted by Frederick Ungar, pending financial arrangements.

BAHM, A. J., Logic for Beginners, to be republished by
Asia Publishing House, Bombay.

BAHM, A. J., Philosophy, an Introduction, being trans­
lated into Tamil and Bengali. Logic for Beginners being
translated into Tamil.

EVANS, M. G., The Physical Philosophy of Aristotle, ready
for release as a University of New Mexico Press monograph.
(b) Articles.


SARKAR, A. K., "Yoga in the Upanishads," accepted for publication in Research Journal of Philosophy and Social Sciences, Meerut, India.

5. Other Research Projects.

ALEXANDER: Research commenced on Spanish Philosophy.

EVANS: Research and writing in formal logic.

SNEEDDEN: Work continued on translation of Husserl,
Experience and Judgment, for Northwestern University Press.

Completed part of book on Reflection and the Role of the Humanities.

SARKAR: Book in progress, Four Buddhist Schools and Some Buddhist Thinkers.

6. Activities in Learned and Professional Societies.

ALEXANDER: Attended four professional meetings, including the Thirteenth International Congress of Philosophy, Mexico City, September 1963. Host to the annual meeting of Southwestern Philosophical Society, December 1963. Continued as member of the American Philosophical Association Committee on Philosophy in Education. Nominate national vice-president of Phi Sigma Tau, philosophy honorary organization.


EVANS: Elected President of New Mexico-West Texas Philosophical Society.

SNEDDEN: Presented paper on "The Possibility of Phenomenological-Descriptive Analysis" to Southwestern Philosophical Society. Participated in Symposium on "What Philosophers Know" at meeting of New Mexico-West Texas Philosophical Society. Also attended Mountain-Plains Philosophical Conference and Pacific Division meeting of the American Philosophical Association.
7. Other Professional Activities.

ALEXANDER: Organized at request of Postgraduate Dentistry Seminar a two-hour lecture given morning and afternoon on "Ideas in World Cultures and Their Influences," assisted by Dr. A. J. Bahm, January 28, 1964. Occasional TV appearances.

BAHM: Talks to Philosophy Club, Wesley Foundation, American Association of University Women. One tele-course and occasional TV appearances.

SNEDDEN: Assisted in one Humanities Special TV program.

SARKAR: TV Humanities Special, "Hinduism and the West" Lecture on "Hindu Aesthetic Experience," at Aesthetics Institute Workshop, Taos.


ALEXANDER: Member Honors Council, Lawrence Ranch Committee, Dean's Advisory Committee, Faculty Advisor to Phi Sigma Tau.

EVANS: Member Library Committee.
I. General Departmental Information

A. Significant Achievements During the Academic Year 1963-64

1. Building Program

A grant in the amount of $350,000 was received from the National Science Foundation to help in the construction of a Graduate Level Research Building. This building is to cost $1,060,599, and it is now being designed by the architects.

2. Research

Sponsored research expenditures are expected to amount to about $250,000 during the report period. Overhead payments to the University during this period will amount to approximately $45,000. Grant and contract applications now pending amount to approximately $600,000. Grants and Contracts now active total approximately $1,300,000.

B. Significant Plans and Recommendations for the Near Future

It will be necessary in the near future to make plans for a physics instructional building. The space in the Administration Building will be insufficient in two years from now for sophomore level laboratories. It is proposed that new facilities be built adjacent to the present Science Lecture Hall, to the north of it. The lecture hall is now used exclusively by the Department of Physics and Astronomy. It is in use during 24 clock hours per
week for lecture instruction and, in addition, for several hours of preparation for lecture demonstrations. We have added a number of large demonstration experiments, and we need this lecture hall. It is proposed that the new instructional building would be built onto this lecture hall, thus saving the expense of building a new one for the time being.

It is estimated that the sum of $400,000 would be sufficient, in this way, to provide adequate facilities for the undergraduate instruction of the Department in the next five to eight years.

C. Appointments to Staff
Christopher Dean, Associate Professor of Physics, 1963-64.

D. Separations
None

E. Sabbatical
Donald Skabelund was on sabbatical leave during the academic year 1963-64.

II. Composite of Information Requested on Individual Biographical Supplements

1. Advanced Study
None

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

BRYANT, HOWARD C.
Spent summer, 1963, at Los Alamos.

REGENER, VICTOR H.
Travel on research project business to Berkeley, New York, Washington, D. C., Boston, Boulder.

SKABELUND, DONALD E.
Sabbatical, academic year, 1963-64.
THOMAS, ROY

Taught Physics course at Sandia Corporation (summer, 1963) TDP program.

3. New scholastic honors, fellowships, etc.

None

4. Publications

BREILAND, JOHN G.


BRYANT, HOWARD C.


DEAN, CHRISTOPHER


REGENER, VICTOR H.


5. Other research projects or creative work in progress or completed during period

BREILAND, JOHN G.

The vertical distribution of atmospheric ozone (with V. H. Regener, Contract AF19(628)-2927):.
BRYANT, HOWARD C.

Study of the scattering of light by a straight edge using a laser.

Study of nuclear reactions using bubble chamber (at Los Alamos).

DEAN, CHRISTOPHER

Equipment for Nuclear Quadrupole Resonance Research has been built and given initial tests, as supported by Univ. Research Committee; calibration now underway, and formal measurements probably to be carried on during summer.

LEAVITT, CHRISTOPHER P.

Satellite meas. of Anomaly in Radiation Belt, Kirtland AFB.

Development of Electron Spectrometer for Satellite Use, Kirtland AFB.

Measurement of Neutron Albedo at Balloon Altitudes, NASA.

REGENER, VICTOR H.

Work continued on Air Force Projects. Grant and contract money received during report period: NSF: $350,000 for research building; NSF: $116,000 for three research grants; USAF: $40,000 for research contracts. Several additional amounts from various agencies.

THOMAS, ROY

Theoretician on research project with V. H. Regener.

6. Activities in learned and professional societies

BREILAND, JOHN G.

Delegate to the XIII General Assembly of the International Union of Geodesy and Geophysics, Berkeley, Calif., Aug 19-31, 1963 (appointed by the American Geophysical Union). Presented paper "Relations between the vertical distri. of ozone and synoptic meteorological conditions".
DEAN, CHRISTOPHER
Attended meeting of American Physical Society at Univ. of Arizona, Tucson, 27-29 February 1964.

GREEN, JOHN R.
Presented two papers at the meeting of the American Physical Society at New York City, January 22-25, 1964: "Propagation of Ultrasound in Camphene" and "Phase Transformations in Solid Cyclohexanol".

LEAVITT, CHRISTOPHER P.
Vice President, Sigma Xi; Elected to President. Attended Boulder meeting of American Geophysical Union.

REGENER, VICTOR H.
American Physical Society, N. Y., Jan. 22-24, 1964

7. Other Professional activities
GREEN, JOHN R.
Visited Gallup High School on 12 May 1964 for the American Institute of Physics under the Visiting Scientists Program in Physics.

LEAVITT, CHRISTOPHER P.
Participant in Los Alamos meeting on proposed Meson Facility, 12/17/63.

REGENER, VICTOR H.

THOMAS, ROY
Consultant to USAF, Kirtland AFB. Guest lecturer, Sandia Corporation.

8. Non-teaching University service
BREILAND, JOHN G.
Member Retirement and Insurance Committee
Member Ad Hoc Committee on Water Resources Institute
University College Advisor
GREEN, JOHN R.
Member University Research Committee
Member Graduate Committee
Member Academic Freedom and Tenure Committee

LEAVITT, CHRISTOPHER P.
Los Alamos Graduate Advisor in Physics
Ad Hoc Committee on Institute of Meteoritics
Committee on NASA Traineeships

REGENER, VICTOR H.
Policy Committee

THOMAS, ROY
Library Committee

9. Public service
None

10. Personal information
BRYANT, HOWARD C.
Son, born and died, November 1963.
The Report of the Department of Psychology  
July 1, 1963 - June 30, 1964  
David T. Benedetti, Acting Chairman

I. General departmental information

A. Significant achievements during the academic year, 1963-64.

1. Enrollment increases over 1962-63 were approximately 12%.

2. A series of Psychology Department Colloquia for staff and graduate students, utilizing off-campus speakers, was instituted.

C. Appointments to staff.


Donald N. Farrer, Ph.D., Consulting Assistant Professor, Holloman Air Force Base, Sept. 1963.

Louis R. Hellwig, M.A., Visiting Assistant Professor, Feb. 1964.

Lloyd E. Homme, Ph.D., Part-time Associate Professor, Feb. 1964.

Henry P. Lampman, Ph.D., Part-time Associate Professor, Sept. 1963 (Sem. I only).

Luther W. Rook, Ph.D., Research Assistant Professor, April 1, 1964.

Margaret J. Smith, Ph.D., Assistant Professor, Sept. 1963.

Alan D. Swain, Ph.D., Part-time Associate Professor, Sept. 1963.

I. General departmental information--cont.

D. Separations from staff.

Dr. Margaret J. Smith, resigned effective Sept. 1964.

II. Composite of information requested on individual biographical supplements.

1. Advanced study.

Dr. Ralph D. Norman: Certified Psychologist
(Certificate Number 1), New Mexico Board of Psychologist Examiners.

Dr. Sidney Rosenblum: Certified Psychologist,
State of New Mexico, January 1964.

Margaret J. Smith: Ph.D. degree, Ohio State University, August 1963.

Bert Zippel: Dissertation title: Learning Rules of Correspondence. Manuscript approved by chairman of committee but not other members.

2. Sabbaticals, leaves of absence, summer teaching, travel, etc.


Visiting faculty, Washington University, Summer 1963.

Dr. Sidney Rosenblum: Attended Ford Foundation conference for Directors of Three Year Master's Programs, Princeton University, May 9-10, 1963.
3. **New scholastic honors, fellowships, etc.**

**Dr. Ralph D. Norman:** *Dictionary of International Biography* listing.

**Dr. Sidney Rosenblum:** "Who's Who in the West," 1964.

4. **Publications.**

**Dr. Henry C. Ellis:**

Ellis, H. C. & Muller, D. G. Transfer in perceptual learning following stimulus predifferentiation. *Journal of Experimental Psychology*, 1964, in press.


Ellis, H. C. Judging the teaching effectiveness of programs. In Ofiesh, G. D. and Meierhenry, W. C. (Eds.) *Trends in Programmed Instruction--II*, 1964, NSPI and Department of A-V Instruction, NEA.


**Dr. Ralph D. Norman:**

4. **Publications.** (cont.)

Dr. Sidney Rosenblum:


Rosenblum, S. "Whither the Nursing Profession?" *The New Mexico Nurse,* 1964, 18, 2-4.

5. **Other research projects or creative work in progress or completed during period.**

Dr. David T. Benedetti:

Senior Research Associate, Sandia Corporation contract, (Dr. Margaret J. Smith, Principal Investigator), $8,590.40, The Effect of Code Length, Decoding Device, and Tracking Task on Code Handling Ability, 1 Nov. 1963 to 30 June 1964.

Consultant to Mr. Bert Zippel on statewide dental attitude survey performed for New Mexico State Dental Association.

Supervising two students in special problems: Kilby Long, An Experimental Test of Wolpe's Psychotherapy Theory; James Cotten, An Empirical Study of the Creative Process in Writers; and one master's thesis student, Wally Bejnjar, studying the effects of hypnotic suggestion in reducing proactive inhibition.
5. Other research projects, etc. (cont.)

Dr. Henry C. Ellis:


Continued research in areas of theoretical models of transfer of training, perceptual learning and visual form perception.

Review research proposals for NSF.

Dr. Ralph D. Norman:

The responses of female juvenile delinquents to the Id-Ego-Superego Test (to be submitted, in conjunction with Judith Nixon).

Dr. Sidney Rosenblum:

Direction of master’s thesis (Sherilyn Meece) investigating some aspects of concept formation ability in normal children and mental age. January 1964 to present.

Dr. Margaret J. Smith:

Sandia Corp.; $8,590; The Effect of Code Length, Decoding Device, and Tracking Task on Code Handling Ability; Nov. ’63-June ’64.

Bert Zippel:

Grant of $520.00 for studies in verbal learning. University Research Committee, NSF, 275-40.

New Mexico Dental Association. Survey of attitudes toward dentists in New Mexico. (In association with D. Benedetti.)
6. Activities in learned and professional societies.

Dr. Henry C. Ellis:

Read paper on "Form recognition and transfer following stimulus predifferentiation," at the Psychonomic Society Meetings, August, 1963, Bryn Mawr, Penna.

Attended meeting of the American Psychological Association (APA), September, 1963, Philadelphia, Penna.

Attended meeting of the Midwestern Psychological Association (MPA), April, 1964, St. Louis, Mo.

Attended meeting of the Rocky Mountain Psychological Association (RMPA), May 1964, Salt Lake City, Utah.

Presented following papers:

(a) Ellis, H. C. "Acquired distinctiveness of cues as an explanatory mechanism in perceptual learning."

(b) Muller, D. G. & Ellis, H. C. "A comparison of three methods of measuring the meaningfulness of random shapes."

(c) Feuge, R., Long, K., Pegram, V. and Ellis, H. C. "Verbal labels as mediators of shape recognition."

Read paper (Mayes, M. G. & Ellis, H. C.) "Conditioning of animals to accept restraint," at New Mexico Academy of Science; Socorro, New Mexico.

Dr. Ralph D. Norman:

New Mexico Psychological Association, Fall, 1963.

Dr. Sidney Rosenblum:

Participant in meetings of Western Association of Graduate School Deans, Western Skies Hotel, Albuquerque, February 23-25. Coordinated panel of foreign graduate students.

Member, Professional Standards Board, New Mexico Psychological Association, 1963-64.
6. Activities, etc. (cont.)

Bert Zippel:


7. Other professional activities.

Dr. David T. Benedetti:

Serving as nominal Director of Sandia Corporation contract, Dr. L. W. Rook, Principal Investigator, $5,127.40, A Survey of the Literature on Human Performance, 1 April 1964 to 31 March 1965.

Dr. Henry C. Ellis:

(a) Talks presented to:

1) Psychology Colloquium, Washington University -- "Theoretical interpretations of perceptual learning."

2) M-3 Program, Washington University -- "Programmed Learning in College Teaching."

3) Institute of Human Learning, University of California, Berkeley -- "Mediational processes in perceptual learning."

(b) Consultanties:

1) Consultant to WICHE on educational problems. Consult on training program designed to improve instruction through the use of new media in education.

2) Consultant to Western States Small Schools project (WSSSP), Ford Foundation Grant. Consult on problems of research design in classroom research.

3) Consultant to Lovelace Research Foundation. Consult on problems of animal conditioning.
7. **Other Professional activities.** (cont.)

4) Consultant to ETS: Prepare test items.

(c) Publications under contract:


(d) Editing:

Appointed associate editor of *Perceptual and Motor Skills and Psychological Reports*.

**Dr. Ralph D. Norman:**

Consultant, Personnel Research, Training, and Education Dept., Sandia Corp.

Consultant in Clinical Psychology, Bernalillo County Indian Hospital.

Member Professional Advisory Committee, New Mexico Rehabilitation Center.


**Dr. Sidney Rosenblum:**

Participant, Intercultural Relations Workshop, University of New Mexico, Summer 1963.

Speaker, New Mexico Nurses Association, Las Cruces, New Mexico, October 21, 1963, "Whither the Nursing Profession?"

Speaker, Bandalier PTA, November 12, 1963, "Some Problem Areas of Normal Children."
7. **Other professional activities.** (cont.)

Resource person, Governor's Conference on Mental Retardation, University of New Mexico, December 10, 1963.

Guest lecturer, College of Nursing, UNM, April 29, 1964, "Human Motivation in Nursing."

Dr. Margaret J. Smith:

Moderator for panel discussion of "How a wife can help her husband be more successful" at December meeting of Albuquerque Sales Exec. Club.

Taught sophomore Honors seminar, Sem. II, 1963-64.

Taught Psy. 80 at Training School at Los Lunas.

8. **Non-teaching University service.**

Dr. David T. Benedetti:

Acting Chairman, Psychology Department, 1963-64.

Department Coordinator, M-3 program.

Tutor for M-3 student Alan Brown.

Member, 75th Anniversary Executive Committee.

Member, Committee on the University.

Dr. Henry C. Ellis:

Career Scholar (M-3) Coordinating Council, Tutor.

NASA Subcommittee, Graduate School.

Graduate Criteria Subcommittee, Graduate School.

Faculty advisor to Omicron Delta Kappa, leadership fraternity.
8. **Non-teaching University service.** (cont.)

Dr. Ralph D. Norman:

Chairman of the University Research Committee, 1963-64.

Assessment Officer, Peace Corps Training Center (part-time)

Dr. Sidney Rosenblum:

Director, Career Scholar Program, UNM, July 1, 1963 to present

Graduate Committee, UNM, July 1, 1963 to present (ex-officio member)

Dr. Margaret J. Smith:

University College advisor.

Bert Zippel:

Extension Division Committee.

Library Committee.

University College advisor.

9. **Public service.**

Dr. Ralph D. Norman:

Chairman, New Mexico State Board of Psychologist Examiners (appointed by Governor Jack M. Campbell).

Dr. Sidney Rosenblum:

Board member, Coronado Credit Union, UNM, February 1964 to present.

Board member, Temple Albert, January 1964 to present (also religious school teacher, September 1963 to June 1964).
10. **Personal information.**

Dr. Henry C. Ellis:

Son, John Weldon, born 19 February 1964.
I. General departmental information

A. This year has been devoted in large part to trying to hold the Sociology Department and its programs together in the face of very limited staff. With only three staff members, two of whom were on one-third released teaching time, the department had to face enrollment increases of considerable magnitude. This problem was handled by scheduling very large introductory course sections (viz., one section in the fall semester numbered 340) even though teaching effectiveness suffers under such arrangements.

The major events of the year involving the Department consisted of sponsoring two conferences and supervising the administration of a questionnaire to UNM students for a national population study. The first conference was held in December under the joint sponsorship of the Department and the Inter-Religious Council. Dr. Will Herberg was the keynote speaker. The theme was "Religion - Opiate or Operative?"

The second conference was held in January under the joint sponsorship of the Department, the New Mexico Presbyterian Synod, and the Presbyterian National Board of Christian Education. The conference was
held for ministers from four states. The theme was "The Changing Southwest." The questionnaire study involving UNM students was conducted in April and May. The Department supervised the administration of the questionnaire to all senior women and 50% of the freshmen women enrolled during the second semester. The sponsoring agency for this study was the Princeton University Office of Population Research. The University of New Mexico was one of fifty colleges and universities selected for the study.

In terms of physical facilities the department finally managed to have airconditioning installed in three of the offices on the south side of the building. In addition the department procured a desk calculator purchased with research funds granted to one of the staff members.

B. With respect to plans and recommendations for the future, some decisions are going to have to be made about developing much needed programs of study which are now either lacking or very weak in the University. In particular the area of social psychology and the area of social anthropology are badly in need of intelligent attention. Neither the Departments of Psychology nor Anthropology have shown much enthusiasm in the past for programs in these areas. Since both of these departments are to
have new chairmen during the coming year, it would seem appropriate to discuss with the new men these badly neglected areas. If the new chairmen are not sympathetic to the idea of developing social psychology and social anthropology programs in their departments, some serious thought should be given to lodging such programs in other departments. There is right now real need for such programs in fields like sociology, education, nursing, and business administration. I also suspect that the Medical School will have needs along these lines in the very near future. The University simply cannot continue to neglect or ignore the problem here, unless it is content in having the status of the social science development here continue as a kind of sad joke.

C. Effective June 1963 Professor Albert Morris of Boston University was appointed Visiting Professor of Sociology for the 1963 Summer Session. Effective September 1963 Harold Trott was appointed to the position of Graduate Assistant. Effective September 1963 Mrs. Betty Lou Alt was appointed to the position of Research Assistant. Effective September 1963 Mrs. Dorothy Floyd was reappointed to the position of Secretary to the Department of Sociology.

D. Effective June 1964 Harold Trott terminated his appointment as Graduate Assistant. Effective January 1964 Mrs. Betty Lou Alt terminated her appointment as
Research Assistant. Effective June 1964 Mrs. Dorothy Floyd terminated her appointment as Secretary to the Department of Sociology.

II. Composite of information requested on individual biographical supplements

1. None
2. None
3. None
4. None
5. Tom T. Sasaki: manuscript of chapter for book completed; article completed in collaboration with Seymour Parker.

David W. Varley: Regionalism and Metropolitan Emergence; Regional Effects and the Folk-Urban Continuum; Characteristics of Migrants to Metropolitan Albuquerque; Inter and Intra-State Migration Involving New Mexico; Community Settlement Pattern in New Mexico, 1920-1960 (State Planning Office project, 2 years, $15,000).

Charles E. Woodhouse: Leadership Patterns in the Russian Jewish Bund (with Henry Tobias); Conditions of Social Change in Underdeveloped Countries; Influence of Campus Environment on Student Commitment to a Para-Military Organization (with Patrick Lynch - Air Force Office of Scientific Research, one year, to be renewed, $33,000).

6. Tom T. Sasaki attended the annual meetings of the American Sociological Association (Los Angeles) and the American Anthropological Association (San Francisco). He also presented a paper at the American Association for the Advancement of Science meetings at Lubbock, Texas.

David W. Varley visited Oklahoma City University as a "Visiting Scientist" for the American Sociological Association, sponsored by NSF. He also attended the American Sociological Association meetings in Los Angeles.

David W. Varley: panelist on four KNME-TV programs; leader of conference on "Changing Southwest" for Presbyterian ministers; moderator for panel discussion on urban planning; speech to Women's Auxiliary of Bernalillo County Medical Association; keynote talk for Conference on Human Development; leader of conference on religion for IRC.

8. Tom T. Sasaki: University College Advisor; member of Education Doctorate Committee and Entrance and Credits Committee.

David W. Varley: advisor for graduate and undergraduate students in sociology; faculty advisor for ACOHR; member of ad hoc Committee on Water Resources Research Center and Committee on the University; consultant for IRC.

Charles E. Woodhouse: University College Advisor; Chairman, Supervisory Board of Division of Government Research; member of Curricula Committee.

9. Tom T. Sasaki: Advisory Committee, National Council of Episcopal Churches; State Advisory Committee, U.S. Commission on Civil Rights; Steering Committee, Albuquerque Community Survey; Board Member of the American Indian Development Corporation.

David W. Varley: Board of Directors, Child Guidance Center; Board of Directors of Planned Parenthood Clinic; WICHE State Committee on Juvenile Delinquency.
I. General Departmental Information

A. Significant Achievements During the Year 1963-1964

1. Enrollment in the Department of Speech increased about 15% on the undergraduate level. A total of nine graduate students were enrolled during the year.

2. During the fall the pre-fabricated room marketed by the Industrial Acoustics Company was installed and various complementary equipment was wired for use. The completion of the installation satisfies our long needed testing facilities for audiological training and research.

3. In the fall of 1963 Dr. Tom Norris, Lovelace Clinic, was employed by the University to teach one course in audiology each semester. This arrangement will be continued during the 1964-1965 academic year.

4. The staff of the Speech and Hearing Clinic consists of Professors Ghreist and St. Onge, Clinical Supervisor, Harold Haines, Louise Markum of the Adult Program (her salary is paid by the VRA and clinical therapy income), and one graduate assistant. Professors Ghreist and St. Onge each taught a twelve hour load during the academic year, directing the administrative and supervisory activities of the Speech and Hearing Clinic as an overload.
4. Breakdown of clinic hours spent in clinical activities by staff members other than Chrirst and St. Onge:

A. Harold Haines, Clinical Supervisor

1. Diagnosis 160
2. Therapy 30
3. Speech 3 & 5 labs 50
4. Corrective work with other UNM students 180
5. Classes handled for faculty members 20
6. Talks to high school speech classes 20
7. Clinic staff meetings 60
8. Cerebral Palsy Administration 100
9. Supervision of major students 100
10. Clinic administration 300

TOTAL 1000 hours

B. Louise Markum, Adult Rehabilitation Supervisor

1. Therapeutic
   a. Individual Therapy with adults
      1. Number of clinics: 5
      2. Total number of hours 62
   b. Group therapy with university students
      1. Number of groups: 6
      2. Total number of students: 22
      3. Total number of hours 82
      4. Diagnostic
         a. General speech and hearing evaluations
            1. Number of clients: 15
            2. Total number of hours 27
         b. Special hearing tests
            1. Number of clients: 5
            2. Total number of hours 8

      TOTAL 179 hours

C. Jo Ann Parker, Graduate Assistant

1. Supervision of Evaluation Clinics 100
2. Supervision of Special Evaluation Clinics 24
3. Participation in Elks Cerebral Palsy Clinics 36
4. Participation in Clinical staff meetings 22
5. Participation in hearing evaluation on the GSR and the Allison: 25
6. Individual and group therapy done 96
7. Speech 3 and Speech 5 labs taught 150
8. Parent Conferences (other than after Eval. Clinics) 22

TOTAL 475 hours
5. In order to strengthen the program in speech pathology and audiology, application was made for graduate fellowships provided through agencies of the Department of Health, Education, and Welfare, Washington, D.C.

A. A planning grant, #VRA443-T-64, provided $4,000 during the year. Dr. Chreist visited a number of universities having operating VRA trainee programs and a consultant was brought to the campus in order to evaluate our present speech pathology and audiology training program. A new VRA application was submitted May 1, 1964 requesting fellowship and salary assistance in the amount of $33,412 to be used during the 12 months between September 1, 1964 and August 31, 1965. Information on the total amount of money to be awarded the University of New Mexico has not been received. April 1, 1964, the VRA administrator indicated that $7,200 had been earmarked for fellowship awards for UNM but that the funds would not be available until appropriations were made by Congress in August 1964.

B. During the year a grant request for three graduate fellowships and two senior level traineeships in speech correction and audiology was submitted to the Bureau of Educational Research and Development Division of the Handicapped Children and Youth. The University of New Mexico has been awarded three graduate fellowships for the 1964-1965 academic year.
C. Evaluation and Research equipment for use in audiology was received from the New Mexico Office of Vocational Rehabilitation in the amount of $9,635. These funds were matched by the University of New Mexico on a 1/3-2/3 basis. Total cost of this new equipment was $14,451. All equipment has been delivered and will be ready for use during the 1964 summer session.

6. May, 1964, the UNM Elks' sponsored Cerebral Palsy Evaluation Clinics concluded ten years of service to the cerebral palsied children of the state, their parents, to the Elks' total rehabilitation program of which our program is a part, and in addition, served the students of the university majoring in speech, education and (in later years) dental hygiene, by providing them with direct experience in the rehabilitation of the palsied child.

On approximately alternate Saturdays during the ten academic years, 121 clinics have been held, 357 cerebral palsied children have been evaluated, plus 21 non-palsied children. Each child when testable received intelligence, social maturity, hearing, articulation and vocabulary tests and dental and ocular evaluations. 3,888 tests have been given. 381 sets of parents have been counseled on various aspects of rehabilitation as recommended by the clinical staff. 75 children have had re-checks and follow-up evaluations. 30 children have been seen a third time, and a few a fourth.
Dr. St. Onge is making an intensive analysis of the accumulated data of these ten years. Permission has been received from the Elks to submit the final analysis to an appropriate rehabilitation journal. In scholarly literature there are few reports that are based on so extensive and continuous experience as that attained at UNM.

Over the ten year period the Elks have awarded fellowships and grants to the University of New Mexico amounting to $20,450 and $2,350 is committed for the coming year. The continuity of the program and the continued financial support testify to the high regard in which it is held. The program has won many friends for the university through a genuine service to the parents of handicapped children, to the New Mexico Elks for whom it is a major project in many states, and to our students and staff who find it a rewarding professional experience.

7. The format for the New Mexico High School Speech Festival, an annual event held on the campus during the spring was changed this year; a district elimination system was established. Only those student who excell in district meets are eligible to enter the State High School Speech Tournament. This year about 140 students participated from 23 high schools. As a group, these students are far superior to former groups attending state festivals. Appropriate trophies were given to first, second, and third place winners in all events. During the year the Department of
Speech channelled pertinent debate and discussion materials from the National University Extension Association to New Mexico high school speech directors.

8. The UNM Intercollegiate Forensics program provides educational experience in analysis, use of supporting materials, reasoning, and delivery of ideas on significant public questions. The program is open to all regularly enrolled undergraduate students.

Under the direction of Professor Jack Gravlee, the University of New Mexico Intercollegiate Forensics program had a reasonably successful year. Between 20 and 25 students represented UNM in nine forensic tournaments. These students participated in debate, discussion, extemporaneous speaker, oratory, and oral interpretation. The season was climaxed by a trip to the Delta Sigma Rho-Tau Kappa Alpha National Conference held in Indianapolis, Indiana.

The annual Duke City Forensic Tournament was held on the campus the second week in December. 24 colleges and universities from eight western states took part in debate, oratory, oral interpretation and extemporaneous speaking. An open debate was held in the Kiva on Thursday evening preceding the tournament between the University of Houston and the University of Southern California. By the time the debate opened there was standing room only.
The UNM Forensic Society not only participated in intercollegiate forensics but furnished many programs of a public speaking nature to local high schools, civic groups, and campus audiences.

9. The University of New Mexico and its television facilities were selected by the Peace Corps to train Colombia XIII educational television group—a pilot project and the first of its kind. Field utilization training provided by Dr. Bundy, Deputy Coordinator, was unique in the history of instructional television. TV-Radio students in the Introduction and Writing courses regularly observed all phases of the "on-the-air" operation.

Qualified advanced students continued to enjoy the opportunity for professional employment at KNME-TV. TV KINDERGARTEN, a program regularly produced and directed by one of the advanced students, Ron Mizker, was honored with an Ohio State award in 1964. Two advanced students in the TV-Radio emphasis, Wen Elliott and Dick Leonard, enrolled in the Stanford University Summer Television Institute, 1963, and received two of eight scholarship awards for outstanding achievement.

B. Significant plans and recommendations for the future

1. Extremely crowded conditions prevailed in the department of speech this year. With the addition of some six or more fellowship and traineeship students in the field of speech correction-audiology next year, plus the addition of a new staff member in public speaking, our space situation will become critical—we will have
offices having two professors. Expanding training facilities in speech correction-audiology will put a severe strain on already over-crowded conditions. Actually the only available nearby space is that portion of the present building now occupied by the television station KNME. It is hoped that by the fall of 1965 the television station will have moved to new quarters. This will allow us to move the departmental offices to the front of the building, thus giving the clinic the upstairs portion of the building now occupied by the staff of the Department of Speech.

2. During the coming year we will need to add a new advanced course in the field of speech correction-audiology. One or two general courses now offered at the lower division level will be upgraded. It is likely that we will ask for an additional course at the graduate level in the field of Modern Rhetoric.

3. If grant funds are made available, we will fill the position of audiologist, approved by the administration in the fall of 1962, during the 1964-65 academic year.

4. With the help of grant funds and our audiological testing facilities we hope to engage in a modest research program.

5. If increased enrollments continue in Speech 1 and Speech 55 classes, an additional staff member will be needed in 1965-66.
B. 6. Plans are in progress to invite the visiting debaters (Oxford or Cambridge) to visit the University and engage an UNM team in public debate. Universities in the Rocky Mountain area are exploring the possibilities of a series of televised debates in cooperation with Channel 5 KNME, Albuquerque.

C. Appointment to staff

Mrs. Payne was employed in the fall as part time temporary instructor. She has taught overflow sections of Speech 1 and Speech 55.

Mr. Robert Halle will be joining the speech staff in September 1964 as instructor and Director of Forensics.

D. Separations from staff

None
II. Compilation of Departmental Biographical Supplements

1. **Advanced Study:**
   None

2. **Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period:**
   Wayne C. Eubank--Around-the-world travel during the summer of 1963.

3. **New Scholastic honors, fellowships, etc.**
   G. Jack Gravlee--Elected University of New Mexico "Professor of the Month", February, 1964, by Las Campanas, Junior Women's Honorary.

4. **Publications:**


5. Other research projects or creative work in progress or completed during the period:


Fred M. Chreist--Planning Grant, received from Vocational Rehabilitation Administration. Grant No. VRA 443-T-64 assigned for the period November 15, 1963 to August 31, 1964 to establish program for VRA Trainees, $2,500. New grant request completed and submitted for May 1, 1964--$33,412.77. Grant ASH 195 submitted to Division of Handicapped Children and Youth. Three graduate fellowships received for use during the 1964-1965 academic year.

Wayne C. Eubank--Grant from the University Research Committee to do a case study on Benjamin Morgan Palmer's "Century Sermon."

G. Jack Gravlee--"Franklin D. Roosevelt's Speech Preparation During His First National Campaign." A monograph accepted for forthcoming publication in Speech Monographs. Several articles for Speech and Historical journals and a book-length manuscript dealing with F. D. Roosevelt's 1920 campaign in progress.

Cullen B. Owens--Research in areas of British and American public address. Research on persuasion, particularly the treatment of the topics of suggestion and motivation in textbooks of public speaking.

6. **Activities in learned and professional societies:**


Fred M. Gheist--Counselor in Speech and Audiology for Western Speech Association in charge of 1964 convention. Convention work completed, March 12, 13, and 14, 1964 at San Francisco. Five sessions in speech pathology and audiology offered in the convention program.


Cullen B. Owens--Member, Committee on the General and Memorial Endowment Fund, Western Speech Assoc. Member Committee, Western Speech Association.

Keith R. St. Onge--Speech Association of America, August 1963, Denver. Two papers delivered, one (the latter) by invitation, "The Stuttering Syndrome" and "Informal Television Discussion." Member, Speech Association of America, American Speech and Hearing Association, NMEA, New Mexico Association of Laryngectomies.
7. **Other professional activities:**


Fred M. Chreist--Member of the Professional Services Board of the American Speech and Hearing Association assigned the duty of evaluating professional services in speech pathology and audiology. Member of the New Mexico Cleft Palate Team (Chairman, 1961-1963) Editor: *Cleft Palate Notes*, publication of the team.

Wayne C. Eubank--Addressed many off-campus organizations as well as campus groups; i.e., New Mexico Adjusters Assn., Sandia Quality Control Assn., Rocky Mountain Credit Conference, New Mexico Restaurant Assn., National Assn., of Secretaries; etc.; Channel 5 reports; parliamentary consultant to three groups.


Cullen B. Owens--Speech on "Lay Speaking" for Board of Lay Activities, Methodist Church, Belen, N.M., November 25, 1963. Speech on Parliamentary Procedure for National Student Assn., New Mexico Union, November 1963.

8. Non-teaching University service:

Edward Wayne Bundy--Peace Corps deputy coordinator No. 1 unit, Phase I, Colombia XIII Educational TV. UNM deputy coordinator No. 2 unit, Colombia XIII Educational TV. Member UNM Advisory TV Committee. Program Manager and Program Director UNM KNME-TV Channel 5. Seventy-fifth anniversary UNM: Member of Executive Committee, Founders' Day Subcommittee and Speakers' Bureau; Co-chairman of Formal Ceremonies and Protocol Committee; Chairman of Personnel and Protocol Subcommittee. Judge of Duke City Invitational Forensic Tournament.

Fred M. Chreist--Special Advisor, University College, Member of the Policy Committee.

Wayne C. Eubank--Member of the Graduate Committee. UNM Advisory Committee on Teacher Education. Graduate Committee representative to the Policy Committee.


Keith R. St. Onge--University College Adviser, Radio Board Member, Ad Hoc Committee on Institute of Meteoritics, Faculty Representative to the Alumni Board. Director of N.M. Elks Cerebral Palsy Clinics. Acting Chairman, Department of Speech, Summer 1963. N.M. Elks Professional-Advisory Board.

9. Public service:

Edward Wayne Bundy--N. M. Commission on Statewide Television for Educational Purposes. Member of Advisory Committee for the Visiting Scientist Program of the New Mexico Academy of Science, Albuquerque Great Decisions Committee, Albuquerque Opera Guild (Chairman for Radio-TV, 1963), Redman for Congress Committee, and Bernalillo County Medical Assn.

Fred M. Chreist--Advisory Board Member, Albuquerque Hearing Society, Layreader, St. Marks-on-the Mesa Church.

Wayne C. Eubank--Three addresses to the Methodist Men's Club; address to Boy Scout groups.

G. Jack Gravlee--Same as previous report.

Keith R. St. Onge--Member Church Council, First Congregational Church, Board Member, Geneva House, Social Action Steering Committee.
10. **Personal information:**


Wayne C. Eubank—San Francisco, March 1964, member of Legislative Assembly; attended Delta Sigma Rho-Tau Kappa Alpha National Conference, Indianapolis, March 1964, delivered address entitled "State of the Union."
I. PREFACE

In view of current developments and expectations regarding the future course of the administrative process, a further re-examination of the scope and purpose of the College of Business Administration has occurred. Several program additions and modifications have been implemented within the last few months; the feasibility of many other program plans depend to a great extent upon construction of adequate physical facilities for the College.

II. GENERAL INFORMATION CONCERNING THE BUSINESS SCHOOL

A. Existing Program

1. Current Statistics

Enrollment statistics for the Business School indicate a marked upward trend for both the undergraduate and the graduate programs. As indicated in Table 1, undergraduate enrollment increased some 18 percent over that in 1962-63, while graduate enrollment in business administration also rose. Such increases at the undergraduate level sharply exceed gains registered by the University as a whole, and are even more significant in view of increasingly rigorous entrance and graduation requirements imposed by the College during this period.

The somewhat erratic behavior of enrollment figures for this College during the last few years (specifically the 1959-62 decline) can be attributed to a major change in quality standards under the leadership of the late Dean Parish. This long-overdue action transformed the
College from a dumping ground to an academic launching platform — however not without eliminating a sizeable number of marginal students. Most encouraging is the fact that during the last two years, the Business School has been dramatically successful in attracting an increasing number of highly talented students. On the basis of this recent experience, we are confident that the continuing drive toward program excellence will provide the Business School with a growing share of total university enrollment.

Table 1

Students Majoring in Business Administration *

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<tr>
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<tr>
<td>University College</td>
<td>323</td>
<td>341</td>
<td>375</td>
<td>419</td>
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<tr>
<td>College of B. A.</td>
<td>198</td>
<td>186</td>
<td>208</td>
<td>268</td>
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<tr>
<td>Graduate School</td>
<td>88</td>
<td>74</td>
<td>79</td>
<td>81</td>
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* as of Semester I
** as of Semester II

**** ****

Statistics relating to probations and suspensions (Table 2) reflect growing College enrollments and further tightening of quality standards. The same factors are reflected in Honor Roll and Roll of Distinction figures (Table 3).

Table 2

Probations and Suspensions

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<tr>
<td>New Probations</td>
<td>12</td>
<td>7</td>
<td>13</td>
<td>11</td>
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<tr>
<td>Probations Continued</td>
<td>12</td>
<td>17</td>
<td>16</td>
<td>23</td>
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<td>Released from Probation</td>
<td>6</td>
<td>6</td>
<td>12</td>
<td>16</td>
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<tr>
<td>Suspension</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>18</td>
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</tbody>
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Table 3
Superior Academic Records

<table>
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<th></th>
<th></th>
<th></th>
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<tr>
<td>Honor Roll</td>
<td>31</td>
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<td>34</td>
<td>37</td>
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<tr>
<td>Roll of Distinction</td>
<td>6</td>
<td>6</td>
<td>9</td>
<td>9</td>
</tr>
</tbody>
</table>

2. Academic Program

a. Undergraduate

As part of a thorough re-examination of the undergraduate program, the College faculty unanimously approved several important changes in degree requirements for the Bachelor of Business Administration. A full year of modern and finite mathematics is now required of all freshmen and sophomores majoring in Business Administration. A three hour course in data processing also is a freshman requirement so as to provide at least a basic understanding of the concept, operation, and programming of a computer in relationship to analysis of administrative systems and problems. A third course in accounting (for the non-accounting major) is designed to integrate the study of accounting as a major business information tool with substantive aspects of management decision-making. Finally, the Collective Bargaining course has been broadened to include the vital area of labor law. Total hours required for a B.B.A. degree have been raised to 128 in order to maintain the previous balance between business and non-business subjects.

b. Graduate

Graduate work in the Business School is designed to serve two purposes: (1) to provide professional training in administration for people who wish to prepare themselves for executive positions; and (2) education for teaching and research in the several areas of Management Science. The
first purpose is accomplished within the M.B.A. (Master of Business Administration) and the M.I.A. (Master of Industrial Administration) programs; the latter through the doctoral program in Business Administration to be proposed later this year.

Since a relatively large body of basic work in administrative theory and techniques must be mastered by all graduate students, the first year of both the M.B.A. and M.I.A. programs consists of a set of courses designed to cover this material rapidly and comprehensively. In the past, the graduate Business student has pursued these studies by enrolling in undergraduate courses comprising some 15 to 24 credit hours. With the introduction of two new courses in Operations Analysis it will now be possible to develop necessary mathematical and statistical tools of analysis concurrently with substantive areas of application. Similarly, the new graduate course, Accounting Analysis and Techniques, will provide a requisite background in accounting theory and in the use of control techniques appropriate to advanced work in management planning and control. No longer will the graduate student in Business Administration be expected to complete freshman accounting and statistics prior to undertaking his normal graduate studies. Increasing emphasis upon the behavioral science foundations of management is reflected in the revised title and course description for B.A. 506, Organization Structure and Human Relations, now required of all graduate students in Business.

3. Data Processing Program

The 1963-64 academic year marks the inception of the Data Processing Center and its two-fold purpose of service to the administration of the University and education in data processing.

Shortly after his arrival in early August, Mr. Jack H. Feise, Manager of administrative Data Processing, completed a survey of administrative
divisions which indicated the ultimate use of data processing equipment in more than 200 applications throughout the campus. The most compelling need existed in the general area of student records, registration, and scheduling. This fall (1964) much of the registration work load will have been shifted to the computer, including a new method for collecting student fees by mail. Ultimate plans call for virtually the entire registration process to be handled by mail, thereby reducing the registration period to less than one day no matter how large the student body. Individual queuing time also will be drastically reduced.

In addition to exercising general supervision over the various activities of the Data Processing Center, Professor Fowler was primarily responsible for development of the 14-month instructional program in data processing. This curriculum offers a certificate for the satisfactory completion of some 30 hours of academic course work and 16 hours of technical (non-credit) work in data processing. Costs of the program, including all of the hardware used in the center (and in the program), are shared between the University and the State Department of Education, under the NDEA of 1958 and the Vocational Training Act of 1963.

On June 22, 1964, the initial class of 24 enrollees commenced their data processing training. These students, representing about 50 percent of the total number of applicants, were selected on the basis of academic record, aptitude tests and probability of completion. Unique in its combination of academic requirements and virtually unlimited "hands-on" equipment time, the program also exploits modern teaching methods in using, as one example, programmed instruction by tape recorder to teach key-punching.

With respect to faculty use of the hardware for teaching and research, the Center has encouraged people to take advantage of its open-shop policy.
In effect, this policy represents a do-it-yourself opportunity for interested staff members who recognize the importance of data processing techniques to their particular disciplines.

4. Southwest Management Development Program

Completing its sixth year, this advanced executive program has attracted more than 400 managers from both private and public enterprises. Some 50 upper-level administrators participated in the 1963-64 program at the Bishops Lodge in Santa Fe - most of them scientists and engineers who administer R & D activities for the government or for prime defense contractors.

A variation of this basic program was developed for the engineering staff of the State Highway Department last February. For the first time, 30 district and project engineers of the Highway Department attended a week-long conference on administrative theory and programming techniques; conference sessions were conducted at the New Mexico Union and at White Pinrock Motor Hotel.

The instructional staff of the program continues to represent eight different departments or disciplines, including economics, psychology, law, education, speech, and several areas within the Business School itself. Sessions on decision theory and the impact of computers upon administrative behavior and organization structure now supplement extensive discussion of human relations, communications, labor relations, and business policy.

5. Development Program for Indian Businessmen

A nine-week program in Small Business Administration for Indians, sponsored by the Bureau of Business Research and the Bureau of Indian Affairs, was held on the University campus during July, August, and the first week of September, 1963. The major purpose of the course was to acquaint inexperienced but otherwise qualified Indian managers with the basic principles
and procedures underlying good administration. This concentrated program was designed to have immediate and direct application to the successful management of individual small enterprises.

Twelve conferees, representing five different Southwestern reservations, attended the program. The instructional staff was drawn from the College of Business Administration, the Associated Faculty of the University, and the Bureau. Occasional guest speakers from government and business spoke on special topics during the nine week period.

Follow-up consultations with individual participants indicated that a majority considered the program of significant practical value. The Bureau of Indian Affairs was sufficiently enthusiastic concerning the summer experiment to request that we provide a more advanced management development program for Indian tribal managers the following summer (1964). Undoubtedly whatever success the 1963 program enjoyed is largely attributable to the dedication, the high interest, and the enthusiasm of the instructors, and most importantly, to the insightful leadership of Rudyard Goode, conference director.

6. Faculty Recruitment and Development

Last year's report stressed the overriding importance of increasing the College instructional staff in preparation for expanding undergraduate and graduate enrollments. Moreover, the introduction of a doctoral program in Business makes such additions still more urgent.

College recruitment efforts this last year have been singularly encouraging. In September 1964, Messrs. Lothar Winter, Carlton Whitehead, and Lloyd Seaton, Jr. will join the College staff. In February 1965, Messrs. Edward G. Nolan and Everett Dillman also will return to become regular members of the College faculty.
The Business School is extremely fortunate in having attracted individuals who either have demonstrated outstanding ability in previous service or who, as young Ph.D. candidates, evidence exceptional promise and breadth of education. Significantly, each of these new staff members now holds the doctorate or will have completed these requirements within the near future.

We are deeply appreciative of support from the President and Academic Vice President which permitted staffing actions to be consummated in a timely and decisive manner. The decisions of these several men to join the College staff also may be considered a tribute to the intellectual climate of which they will become a part—a climate which was viewed as stimulating, experimental, and conducive to the achievement of maximum individual accomplishment and satisfaction.

Faculty development activities continue to receive heavy emphasis. More than 100 members of the University faculty and administrative staff attended the three-month seminar in computers presented by Professor Fowler this spring. Virtually every member of the College staff participated in this program, which included 2 to 3 hours of lecture each Saturday morning, as well as weekly laboratory exercises. This manifest interest in self-development on the part of the faculty and staff is extremely gratifying.

7. Research Activities of the College

After discussions with Hoyt Trowbridge, Acting Academic Vice President, it was agreed that beginning next fall one member of the Business School faculty might have his teaching load reduced one third in order to conduct research. We intend that this released time be devoted either to some special research interest of a particular faculty member, or that the time investment involve preparation of research proposals designed to attract outside funds. The latter action should materially broaden research oppor-
tunities for all members of the Business School faculty, and for those individuals in closely related disciplines outside the College.

We have no intention of administering this released time mechanism in an automatic or perfunctory manner. Individual faculty members are expected to qualify for this opportunity on the basis of previous research performance, competitive submission of proposals for new research, general research interests and capabilities, etc. Should no qualified candidate be available in a given semester, released time will not be granted. Moreover, actual performance as a result of released time will determine whether a given individual may receive the same opportunity at a later date, and, in a more general sense, whether the practice itself should be continued.

We are confident that this evidence of organizing for research, modest though it may be, will bring substantial returns. Faculty interest in creative research undoubtedly will be stimulated; and new opportunities should become manifest both within the framework of the Bureau of Business Research and on an individual basis.

B. Major Plans and Recommendations

1. Curriculum

   a. Undergraduate program

      As noted earlier, several significant changes have been effected in the undergraduate program, among them the new one year math requirement, the introduction of a course in computer concepts and operations, and further strengthening of work in accounting, statistics, and the behavioral aspects of administration.

      Beyond these immediate modifications, we anticipate a major revision of the junior level required (core) courses in marketing, organization theory, finance, law, and possibly managerial economics. Work in each of
these indispensable fields will be intensified, and quite likely will require a minimum of five credit hours for each introductory course. A dual advantage should derive from reorganization of the curriculum: necessary subject matter will be covered in greater depth, and students will be able to carry a full load (15 to 17 hours) by studying 3 to 4 courses per semester, not 5 to 6 different subjects.

Undergraduate students will be encouraged to emphasize areas of study outside of the College of Business Administration to the extent of developing a minor in some relevant discipline. Although the student will be free to elect one of several minor fields, he will be expected to do sufficient work to develop reasonable mastery of the subject.

b. Masters programs

In the future, a strict dichotomy will be made and enforced between undergraduate and graduate status; with perhaps the exception of economics, no undergraduate courses will be classified as prerequisites for either the M.B.A. or M.I.A. programs, nor will any undergraduate course carry graduate credit within the Business area. (The Business School now requires a minimum of 15 hours of 500-level course work in the M.B.A. program — far exceeding the general University minimum requirement.)

The graduate core mentioned earlier (for both the M.B.A. and M.I.A. degrees) will include work in the following areas: mathematics, statistics and operations research, organization behavior, accounting theory, managerial controls, and managerial economics.

Beyond the core, the M.B.A. student may elect to study in further depth a major field within which he will write his master's thesis. The M.I.A. candidate shares this opportunity to develop further understanding of a given subject area, but rather than writing a thesis, he will complete at
least twelve hours of graduate level work in some discipline related to administration but technically outside the College of Business Administration. Most students should be able to complete either program within two years.

c. Doctoral program

A formal request for a doctoral program in Business Administration will be submitted to the Academic Vice President during the next academic year, 1964-65. It is our considered judgment that the College now possesses the necessary nucleus of a graduate staff, and, moreover, that demand for a high-quality advanced program in administration continues to grow within the state and throughout the nation as a whole. As discussed in last year's report, The University of New Mexico is uniquely favored by its location among atomic and electronic research and development laboratories. Manifestly, these experimental and research facilities must be considered a permanent part of the New Mexico scene, and as such, represent a built-in demand for advanced work in administrative science. Beyond this, the National Science Foundation has noted with great clarity the mushrooming demand for Ph.D.s in the Business area and forecasts a several-fold increase in B.A. doctoral degrees by 1975.

The M.B.A. and M.I.A. programs can be expected to generate a sizable number of doctoral candidates. From among the most successful first-year students, the College will select those candidates who have the manifest ability to accomplish doctoral work of a high quality. Criteria for selection will include high academic performance, an extraordinary degree of intellectual curiosity, and manifest interest and high level ability in teaching and/or research. These exceptionally able doctoral candidates will be offered appointments as teaching or research assistants.
We envisage a close working relationship between senior staff members and doctoral candidates who will assume important teaching responsibilities at the undergraduate level. Under this arrangement, limited salary funds can be distributed in optimal fashion, senior staff salaries can be competitive on a national basis with the best known Business Schools, such as Harvard, M.I.T., Stanford, Carnegie Tech, Wharton, and California. At the other end of the scale, teaching assistants should receive a reasonable supporting wage generally higher than the typical fellowship or grant. The use of talented doctoral students in selective undergraduate courses can serve to minimize the cost of regular staff services without lowering the quality of the instructional program.

2. Building Proposal

The almost incredible inadequacies of the present College of Business Administration building, Yatoka Hall, have been lamented once again in a detailed proposal for a new Business School - Bureau of Business Research building, recently submitted to the President. Hopefully, this will be the last Annual Report requiring mention of facilities which are entirely incompatible with a high-quality professional program, and quite embarrassing to faculty, staff, and students alike.

3. Organization for Management Development and Contract Research

The appointment of Dr. Edward G. Nolan as Associate Professor of Business Administration and Director of the Southwest Management Development Program represents a major first step in expanding the Bureau's technical and professional services to the community. Professor Nolan accepts a dual assignment: to direct and expand the management conference series now widely attended by public and private executives, and to propose and promote contract research in the behavioral aspects of administration. The
latter function should provide new and exciting research opportunities for the Business School staff as well as for many individuals in related disciplines. Management development and an organizational behavior research program are among the most important opportunities now confronting the College and the Bureau.

C. Appointments to Staff

Dr. Lothar G. Winter was appointed Associate Professor, in the areas of marketing and international business. Lloyd Seaton, Jr. was appointed Assistant Professor in accounting, and Dr. Carlton J. Whitehead accepted an Assistant Professorship in the area of management and statistics. Everett G. Dillman will join the staff in February, 1965 as Assistant Professor in organization theory and statistics. Also next February, Dr. Edward G. Nolan will rejoin the University faculty after accepting a joint appointment in Business Administration and in Education. Holding the rank of Associate Professor, Dr. Nolan will assume directorship of the Southwest Management Development Program and also will teach advanced courses in the behavioral aspects of administration.

D. Separations from Staff

Eva Glaese resigned, effective June 30, in order to devote more time to her home and family. Professor Glaese completed 27 years of faithful service to the University.

Dr. William J. Parish, professor of business administration, Dean of the Graduate School, and former dean of the College of Business Administration, died unexpectedly on May 4, 1964. This tragic loss to the College was painfully shared by the University as a whole, and indeed, by the entire community. Truly Dr. Parish was an individual of unmatched talent and unceasing dedication.
III. Composite of Biographical Supplements

A. Advanced Study

1. Finston, Howard: Attended eight week Visiting Professors Case Method Seminar at Harvard University, summer 1963.


5. Park, James: Attended summer school at the University of Alabama in work toward the Ph.D.

B. Sabbaticals, leaves of absence, and travel

1. Reva, Virginia: Spent seven months giving seminars in executive secretarial work and in office management under sponsorship of United States Agency for International Development in Lima, Peru; Buenos Aires, Argentina; Tegucigalpa, Honduras; and in Monterrey, Mexico; and in David, Colon, and Panama City, Panama.

C. New scholastic honors, fellowships, and special seminars

1. Huber, William: Offers of three two-week seminars, none of which could be accepted because of time limitations.


D. Publications


E. Other research or creative work

1. Christman, Karl: Continued self-study in German and in integrated business information systems. Prepared a new course syllabus for B.A. 6 correspondence offering.


3. Finston, Howard: Participating in an unclassified economic study under a contract with the United States Arms Control and Disarmament Agency. The problem focuses upon regional economic adjustments associated with disarmament and long-term economic redevelopment.

4. Fowler, Parker: Continued work on elementary decision theory text (under contract).


6. Goode, Rudyard: Directed, coordinated, participated as a teacher and evaluator, and reported on a nine-week training program for Indian managers of small enterprises. Continued as analyst of industrial development programs and investigator of role of federal government in New Mexico's economic development. (A two year study supervised by the State Planning Office).

7. Huber, William: Member of faculty of Southwest Management Development Program.

8. Kirkpatrick, Thomas: Research project for the New Mexico Department of Game and Fish, under a $13,000 grant. Title: The Economic and Social Value of Hunting and Fishing in New Mexico.
9. Mori, Perry: Western Data Processing Center seminar, UCLA, June, 1963


F. Activities in learned and professional societies

1. Christman, Karl: Chairman, New Mexico Accounting Careers Council, American Accounting Association; also State Membership Chairman, AAA; continued activity in American Institute of Certified Public Accountants, and in the State and local C.P.A. Society.

2. Finston, Howard: President Southwest Management Association. Attended annual meeting of the SMA in Dallas last April. Member of the Program Committee for the 1965 meetings of the Western Division, Academy of Management.


4. Glaese, Eva: Attended Executive Board meeting of Mountain-Plains Business Education Association and also the convention, June, 1963. Member NBEA, NEA, NMRA, AAUP, International Society for Business Education, Pi Lambda Theta, Delta Pi Epsilon, Sigma Alpha Iota.

5. Mori, Perry: Member, New Mexico State Society of Certified Public Accountants.

6. Park, James: Attended the annual meeting of the New Mexico Business Education Association.

7. Reva, Virginia: Member, Nominating Committee, UNM Phi Kappa Phi. Active in the Albuquerque chapter of the Administrative Management Society.

G. Other professional activities


2. Edgel, Ralph: Spoke before the New Mexico Manufacturers Association. Prepared two economic surveys in support of applications for bank chapters.

4. Fowler, Parker: Spoke before the following organizations: Data Processing Management Association, Federal Government Accounting Association, Systems and Procedures Association, Veterans Hospital, Optimists, Joint Accounting Conference, KOB-TV. Conference leader, Southwest Management Development Program.

5. Goode, Rudyard: Served as statistical advisor for Public Health Project dealing with Laguna Indians. Spoke to Albuquerque Investment Group, and served as conference leader in Southwest Management Development Program. Consultant to Clayton and Farmington banks. Director of State Government Internship Program. Assisted Professor Kirkpatrick in the design and planning of a survey for the Game and Fish Department.

6. Huber, William: Various and sundry speeches; appearances on TV. Legal consultancy. Conducted five-week law review school.


8. Mori, Perry: Consultant on Accounting and Income Tax problems. Addresses to various groups.

9. Park, James: Spoke at the Alamogordo Chamber of Commerce Annual Career Day at Alamogordo High School, April 5.

10. Park, Sang: Appearance on Channel 5 TV as a discussant in Oriental Religion program. Consultant to the Governor's Committee for Rehabilitation of Handicapped Persons.

11. Reva, Virginia: Some 25 talks before business, professional and church groups. Guest lecturer at the NCO Academy, Kirtland Air Base. Lecturer on communications. Honorary graduate, NCO Academy.

H. Non-teaching University service

1. Christman, Karl: Member, University Policy Committee. University College advisor.


3. Finston, Howard: Dean, College of Business Administration; Director, Southwest Management Association; member, Administrative Committee, Committee on Entrance and Credits, and Board of Deans. Member of graduate faculty.

4. Fowler, Parker: Established the Data Processing Center and the 14-month D.P. Program. Active in undergraduate and graduate curriculum development for degree programs in the College of Business Administration, and in the building plans therefor.

5. Glaese, Eva: Advisor, University College and College of Education. Supervisor of practice teachers; member of two College of Education committees. Member, University United Fund Committee.
6. Goode, Rudyard: Vice-Chairman and Secretary, University Policy Committee. University College advisor.

7. Huber, William: Director of University College. Chairman Student Publications Board. Member, Administrative Committee, Committee on Entrance & Credits, Board of Deans, University College. Assistant to the Vice-President for seven months on Peace Corps reorganization.

8. Kirkpatrick, Thomas: Member, University Curricula Committee.


11. Reva, Virginia: Member, Graduate Committee. Faculty advisor to Phi Gamma Nu, Business Girls' Professional Sorority. Also University College advisor.

I. Public Service

1. Christman, Karl: Church membership and solicitations.

2. Edgel, Ralph: NMEA Committee on Retirement Housing.

3. Finston, Howard: Member, Personnel Board, City of Albuquerque, Chairman, Advisory Council of the Employment Security Commission. Member, Governor's Emergency Resources Planning Committee (Manpower Task Group).

4. Fowler, Parker: Member, First Presbyterian Church Choir.


6. Reva, Virginia: Active in church work; also block captain for American Cancer Society.

J. Personal information

1. Park, James: a daughter, Julia Christiana, born June 10, 1964, 7 lbs, 5 oz
The Report of the College of Education
July 1, 1963 - June 30, 1964
Chester C. Travelstead, Dean

I. General information

A. Significant achievements

1. We are now completing our first full year of occupancy in the new College of Education Center. All during this year we have been correcting deficiencies and solving problems connected with this new facility. Also, we have gradually been adding equipment, furniture, and special facilities which were not included in the original building contract—such as floor covering, draperies, television equipment, and furniture for classrooms and special areas. Another large and very significant addition was a number of very expensive machines used in the machine shop area of the Industrial Arts wing of the Center. Next to this addition, in terms of cost, were the installation of an elaborate wiring system for closed circuit television and the purchase of cameras and receivers to be used in the Center.

2. Program revisions and additions are described in some detail in separate departmental reports. It should be mentioned here, however, that we are now
operating under new requirements in general education and core courses in professional education for all teacher education students. These requirements were developed and finally approved by the College of Education faculty and by the UNM Advisory Committee on Teacher Education.

3. In October, 1963, a new screening procedure was introduced. Such a procedure, now held three times each year, is designed to screen carefully all those students at the University of New Mexico who apply for admission to a teacher education program. Among the factors considered before a student is admitted are:

a) Grade-point-index in scholastic work taken up to the time of application;

b) Scores on placement tests (SCAT or ACE) taken at time of admission to UNM;

c) Score on spelling test given at the screening session;

d) Score on an essay, written on a topic announced at the time of the screening session;

e) Score on Edwards Preference Scale (personality test) given at screening session;

f) Performance at personal interview with a faculty member.
It seems to be quite apparent that requiring successful completion of the screening session prior to admission to teacher education at UNM has been a significant step forward on this campus. Students now realize 1) that we are looking only for competent students whose chances of becoming successful teachers are very good, and 2) that not all applicants are admitted. (We select about 85% of all those who apply for admission to teacher education.) It seems fair to say that because of this somewhat rigorous and formidable screening process, more able students are being attracted into teacher education programs on this campus.

4. A continuation and expansion of the cooperation among the College of Education, the College of Arts and Sciences, and the College of Fine Arts with respect to screening and admission to teacher education and development of new and better programs is a significant achievement of which all of us can be proud.

5. The College of Education has during the past year made significant contributions to the Peace Corps Training Program at UNM. Members of the faculty in the Dept. of Home Economics, the Dept. of Health, Physical Education and Recreation, and the Dept. of Secondary
Education (Industrial Arts) have participated actively in developing and carrying on programs in these areas for the Peace Corps Trainees.

6. The Children's Center is now in full operation, and its activities will be expanded even more during the 1964-65 school year. We have employed a director (see "Appointments to Staff" section below) and are now carrying on testing, diagnoses, interviews, and remedial work with selected children and youth. All these activities may be observed and heard by means of the fine new facilities in this Center. And next year we will be projecting them via closed-circuit television to the classroom wing of the College of Education.

7. We have completed during the period covered in this report a thorough survey of the Santa Fe, N.M. Public Schools. This survey has been conducted by the Bureau of Educational Service and Research of the College of Education. A full report of this activity will be published in late summer or early fall of 1964.

8. Several grants for research projects and pilot studies have been awarded to the College of Education
during the past year, and several more are anticipated during the 1964-65 school year. Among those already in operation are:

a) The Abo Project (researching the effects of underground schools on children and teachers);

b) The Air Force Project (conducted jointly by the College and the Dept. of Sociology at UNM - studying student attitudes toward the AFROTC programs at UNM); and

c) The pilot study on new preparation programs for school administrators (supported by the National Institute of Mental Health).

9. In August, 1963, the National Conference of Professors of Educational Administration held its annual meeting on this campus with about 400 persons attending. (See report of Dept. of Educational and Administrative Services for details.)

B. Significant plans and recommendations for the near future.

1. Our most pressing need is to develop and put into operation as soon as feasible new and improved fifth-year programs for teachers. All these should be in effect by September, 1965.
2. Another critical need is to complete the landscaping around the College of Education Center. Some of this has been done, but much remains undone. More trees, shrubs, and several areas of grass, already planned by the landscape architect, must be added before the Center can be as attractive as was originally conceived by the architect.

3. The basement area of Unit C (Administration Unit) should be developed into additional offices, classrooms, and research areas within the next year. All our present faculty offices are already occupied, and our increase in class enrollments and research grants make it imperative that we have additional offices by September, 1965. If new ones are not available by that time, then we should be allocated some space from the present Mesa Vista Dormitory. When it is converted for more general use, some of its spaces probably could and should be used for College of Education faculty office space.

4. As our graduate programs continue to develop, it becomes obvious that there is a need for expanded cooperation between the College of Education and other colleges and departments on campus. I predict and see
a great need for more interdisciplinary seminars and courses especially designed and jointly offered by our College and certain departments in the social science area (e.g. Sociology, Anthropology, Business Administration, Psychology, Government, etc.) The recently approved program for the preparation of school administrators (see A-8-(c) above) incorporates interdisciplinary seminars, and has on its staff at least one faculty member who is on a joint appointment with the College of Education and the College of Business Administration. More of this joint planning and cooperation should be encouraged.

5. There is an ever-increasing need for an Associate or Assistant Dean in the College. The recent expansion and growing complexity of this College make it imperative that another administrative officer be added no later than September, 1965. This move has been needed and recommended for several years, but funds have not been available for it - that is, funds over and above those needed for faculty additions.

C. Appointments to staff

1. Dr. Stanley Caplan (beginning September 1, 1964), Director of the Children's Center and Associate Professor in the Dept. of Educational and Administrative Services.
2. Dr. Charles Griffith (effective September 1, 1964), Associate Professor, Dept. of Educational and Administrative Services, working primarily in the pilot study supported by the National Institute of Mental Health.

3. Dr. Horacio Ulibarri (effective September 1, 1964), Assistant Professor, Dept. of Educational and Administrative Services, working primarily in the pilot study supported by the National Institute of Mental Health.

4. Dr. Albert Vogel (effective September 1, 1964), Assistant Professor, Dept. of Educational and Administrative Services, teaching primarily in the area of Foundations of Education.

5. Dr. Donald Johnston (effective September 1, 1964), Assistant Professor, Dept. of Secondary Education, having primary responsibility in the area of supervision of student teachers.

6. Mr. Carl Zweig (effective September 1, 1964), Assistant Professor, Department of Secondary Education, Director of Academic Year Institute (NSF) for High School Teachers of Science and Mathematics. Also, will teach courses in the teaching of science (elementary and secondary levels).
7. Mr. Robert Nesbitt (effective June 15, 1964), Assistant Professor, Department of Secondary Education (Industrial Arts), teaching Industrial Arts classes for Peace Corps and regular College of Education students.

8. Mr. George Montgomery (effective September 1, 1964) Assistant Professor, Department of Health, Physical Education and Recreation. Will teach classes in the field of Recreation.

9. Mr. Stanley Rasmussen (effective September 1, 1964) Instructor, Department of Health, Physical Education and Recreation. Will coordinate Peace Corps programs.

D. Separations from staff

1. Mrs. Judith Meyers (effective June 30, 1964), Instructor, Dept. of Art Education. Her husband, Mr. George Meyers, now employed as Program Director at UNM's New Mexico Union, has accepted a position at Colorado State College at Greeley as Director of its new Student Union, and Mrs. Meyers will accompany him to Greeley in August, 1964. We regret very much losing Mrs. Meyers, and in view of the late date, we shall not fill this position until September, 1965. During the 1964-65
school year we shall use part time, temporary instructors.

II. Composite of information requested on individual biographical supplements

1. Advanced study

   (a) Dr. Frances McGill (see report from Dept. of Health, Physical Education and Recreation) was awarded the Ph.D. degree from Ohio State University, December, 1963.

   (b) Mr. Richard Warner (see report from Dept. of Secondary Education) was awarded the Education Specialist Degree (6th year) from the University of Michigan, August, 1963.

2. Sabbaticals, leaves of absence, travel, etc.

   (a) Dr. Miles Zintz (see report from Dept. of Elementary Education) was on sabbatical leave in Costa Rica during the 1963-64 school year.

   (b) Dr. Bonner Crawford (see report from Dept. of Secondary Education) returned in August, 1963 from a two years' leave of absence during which time he was Director of Education in the Ryukyu Islands.

A large number of the College of Education faculty members did summer teaching and travel during the year - cases too numerous to list here.
3. New scholastic honors (see departmental reports)

4. Publications (selected)


   Prouse, Peter - *Skills in Spelling*, 2nd printing


5. Other research projects, etc. (See departmental reports)

6. Activities in learned and professional societies (selected)

   Harold Drummond is currently (April, 1963 to April, 1964) National President of the Association for Supervision and Curriculum Development (ASCD)

   Chester Travelstead is currently (October, 1963 to October, 1964) Chairman of the National Council for Accreditation of Teacher Education (NCATE).

7. Other professional activities (See departmental reports)

8. Non-teaching University services (See departmental reports)

9. Public service (See departmental reports)

10. Personal information (see departmental reports)
I. General Departmental Information

A. Significant achievements during the academic year, 1963-64

The department of art education is now reasonably well organized in its new building. After long delay, chalkboards were installed. Also, staff members and department chairman corrected acoustical conditions in the projection-lecture room by personally installing acoustical tile on ceiling and walls. Department chairman installed double panel viewing screen for showing of slides and film for class use. With these adjustments the lecture room now offers ideal conditions for lectures and discussions. Because of the common ceiling extending to all parts of the new art education building, testing of different kinds of teaching-learning activities in different parts of the building was necessary. As a result of these tests, better information as to work and lecture potentialities of different parts of the building is now available. The installation of styrofoam and cellotex panels for display of loan exhibits and of students' works provided a practical approach to the use of display space in the building.
The displays of art work attracted many visitors from local communities and nationally. Such displays were found to be informative, educational and inspirational. Some teachers made regular visits to the art education building, while others arranged for and brought their entire classes of children to see the exhibits. It is apparent that one of the real functions of the new art education building is that of a center for the dissemination of new ideas pertinent to the entire field of art education.

The October meeting of the New Mexico Art Education Association in the new art education building was extremely successful in itself while pointing out some of the real possibilities for similar conventions in the building by other interested community groups. The availability of equipment, table and display space, along with the proximity of the building to other centers on the campus, indicated a potential of considerable proportion to be exploited for educational purposes.

The addition of a graduate assistant to the staff provided some relief from heavy teaching loads of permanent staff members.

E. Significant plans and recommendations for the future

One significant plan for the future includes the
further development of the tool and equipment area of the new art education building. The offering of a beginning craft course to industrial arts students requires a better equipped classroom than we are now providing. The present equipment should be turned in and new, improved models purchased. In addition, a good stock of necessary tools must be provided to meet the needs of expanded craft activities for all the students in our several classes.

An additional need appears to be the transferring of cabinets from ground floor to balcony teaching area or the purchasing of new cabinets to meet the need of the platform classroom.

It is imperative that thought be given to the addition of one replacement staff member and a new permanent staff member to the department. The additional graduate assistant to be added next year will only temporarily meet increasing departmental needs.

C. Appointment to staff

Mr. Robert Meade, a graduate assistant in Art Education was the additional staff member for this year.

D. Separations from staff

Mrs. Judith Meyers resigned from the staff as of July 1, 1964.
II. Composite of information requested on individual biographical supplements

1. Advanced study: No advanced study was pursued by staff members.

2. Sabbaticals, etc.: There were no sabbatical leaves taken this year, although both Dr. Masley and Mrs. Meyers travelled for professional purposes.

3. New scholastic honors, fellowships, etc.: No scholastic honors were received by members of this department this year.


   Dr. Masley contributed regularly to the same publication. In addition, he wrote seven book reports for the New Mexico School Review, and two book reviews for The Journal of Art Education.

5. Other research projects or creative work in progress:

   Dr. Masley did advanced research with tableting opaque water color paint and glazes. He also continued the research project adapting the Japanese print making technique to classroom creative art experiences. In addition, advanced work was done with the development of new techniques with improvised drawing sticks.
Mrs. Meyers did a series of watercolor paintings and executed an original book, alphagraph, in accordion format.

6. Activities in learned and professional societies:

Mrs. Meyers was re-elected President of the New Mexico Art Education Association. She planned the fall and spring meetings, and co-sponsored an exhibit of International Children's Art on the campus. She attended meetings of the state Art Education Association.

As a life member, Dr. Masley attended the several meetings of the New Mexico Art Education Association. As a Council member of both Western Arts Association and of the National Art Education Association, he attended the regional convention in Minneapolis and the national meeting in Washington, D.C. He was member of the College Teachers of Art Committee, the Finance Committee, the Planning Committee, amongst others, of both the regional and national organizations.

7. Other professional activities:

Mrs. Meyers arranged an exhibit of books designed by Merle Armitage in the College of Education. She designed animal masks for the UNM Opera Workshop production of Magic Flute. She spoke to the Albuquerque Kindergarten Teachers Association. In addition, she participated in
a panel on Creativity sponsored by Mitchell School PTA, and taught an extension class in Gallup.

Dr. Masley's activities included several exhibits of recent drawings; one at the Jonson Gallery, one at New Mexico State University, and one at New Mexico Western College. In addition, he exhibited at the Southwest Biennial in Santa Fe, and at the Fine Arts Gallery on the campus. Two paintings were included in a national tour of small paintings. Dr. Masley also taught an extension course in Santa Fe.

8. Non-teaching University service:

Mrs. Meyers was a University College advisor. She was a member of the Learning Materials Center Committee, and of the Laboratory Experiences Sub-committee. She was also in charge of physical arrangements for the COE dedication.

Dr. Masley was a member of the following committees: Advisory, Administrative, Undergraduate Sub-Committee, Graduate Sub-Committee, Research, and was University College and College of Education Advisor. He was a member of the Creativity panel for the COE dedication, and participated in both the Grants and the Santa Fe evaluation program. He also administered the children's art classes.
9. Public service:

Dr. Masley was a member of the building committee of the Unitarian Church.

10. Personal information:

There is no new or additional personal information.
This has been another "full" year for the Department of Educational and Administrative Services. Enrollments have reached an all-time high and the Department has expanded its operation to include new services, both those of a research nature and those pertaining to consultant service in the field. Perhaps this increase in service has been most noticeable because there were no staff additions to the Department for 1963-64.

Toward the end of 1963-64, some of the work which was done earlier has begun to bear fruit: (1) official notice was received in May of the approval by the National Institute for Mental Health of a pilot program for the preparation of school administrators amounting to a total three year grant of almost $250,000; (2) information communication has indicated that during 1964-65 the Department would be involved in an education assistance project in Ecuador in accordance with a tentative agreement made during the 1963-64 school year; (3) the U. S. Office of Education has requested that the College of Education and this Department provide some service and research in the area of migrant workers during 1964-65 and the years following; and (4) Dr. Frank Angel, of the Department, has been requested by the AID program in Paraguay to provide leadership in arrangements
for a non-degree, in-service improvement program for school supervisors and principals of Paraguay. The background for the above developments has been prepared at the same time Departmental ongoing activities have been conducted. It has been these "extra" programs added to regular heavy assignments that has given us a full year.

I. General Departmental Information

A. Significant Achievements and Accomplishments During the Academic Year

1. A considerable amount of staff time was given last spring and during the summer toward the development of a pilot training project for school administrators. The culmination of the long study resulted in a proposal being drafted and during the latter part of July, 1963, it was submitted to the National Institute for Mental Health. An on-site visitation by a representative from the National Institute for Mental Health was made during the fall of 1963 and the proposal approval was given in May, 1964, as indicated in the introductory section of this report. Because the preparation of this proposal and staff interaction on many of its facets consumed such a great amount of time, it is listed as one of the significant accomplishments of the Department during the year. The Department feels that the proposal represents a revolutionary step forward in administrator training.

2. The program in educational administration has continued its working relationship with the University Council for Educational
Administration. Materials from the UCEA were used during the year in connection with class work in some courses and an active exchange of ideas and planning information continued through the year. Dr. Patrick Lynch, representing the program in educational administration, attended a one-week workshop in Columbus, Ohio, in September, 1963, which was devoted toward improving programs for the inservice education of administrators. The area of inservice education for administrators has been an ongoing interest within this Department. The Department Chairman represented the University of New Mexico at Plenary Council sessions of the University Council for Educational Administration held in Atlantic City, New Jersey, in February, 1964.

3. One of the most significant activities of the Department during the year, and within its history, was that of serving as host Department to the National Council for Professors of Educational Administration during August, 1963. Almost 500 people, representing most of the major universities throughout the United States, were in attendance. The personnel of this Department assumed the major responsibility for the jobs of planning and hosting this group. Planning had been done over a period of almost three years and a high degree of cooperation has been secured from the university administration and many other of its branches and divisions. Without attempting to enumerate the many facets of this conference, reference to it in this report can be concluded by saying that the Department, the College and the University of New
Mexico were highly complimented for a most outstanding annual conference of this national organization. There was a high degree of satisfaction felt by members of the Department for having been commended on a job "well done."

4. This Department cooperated with the Department of Sociology during the year on the prosecution of a research project for the U.S. Department of the Air Force. Dr. Lynch has served as the Departmental representative for this project with the title of Co-Investigator. The project is housed in the Education Office Building in the Department of Educational and Administrative Services area.

5. The Department has continued to offer a credit course via Channel 5 television. The course offered this year has been Introduction to Guidance with Dr. Keppers as Instructor. At the request of Channel 5, Program, Director, this Department will continue its offering of one course via TV. The Course planned for 1964-65 is in the area of education tests and will be taught by Dr. James Cooper.

6. Members of the Department have participated actively in a year-long survey of the Santa Fe community and schools. All members of the Department and all assigned graduate assistants have had some part in this study. Even though personnel from all other Departments of the College assisted in the survey, this Department carried a major share of the load.

7. Dr. Devoy Ryan of this Department has continued as Executive-Director of the New Mexico Cooperative Research and Study Council.
During the year a monthly publication has been prepared, three major conferences and two workshops in the field have been held. A considerable amount of consultant work has been done for the school systems of the Council. Staff members from other Departments have aided in the Council program; this was especially true in case of the Grants study. However, in a broad sense, the personnel of this Department have carried the major load for this field service program.

8. During August, 1963, the publication of the Truth or Consequences Survey report was completed and delivery of 100 copies was made to the Truth or Consequences Board of Education. The survey itself was reported in the last annual report but compiling and editing the official, published report is a job which came after June 1, 1963, and was a major undertaking. The Department Chairman, Dr. Devoy Ryan and Mr. Harold Lavender and the Department Secretary, Mrs. Joyce Caster, carried the major responsibility for preparing the report.

9. The Abo Underground School Project was begun during 1963 under the joint sponsorship of the New Mexico Department of Education and the University of New Mexico. Participating in the project work from this Department were Drs. Patrick Lynch, James Cooper and the Department Chairman. For the last half of this academic year, responsibility for the project has been shifted to the University of New Mexico and this Department. Dr. James Cooper has been released half time and "outside" staff members have been employed to teach two
of the Semester II courses assigned to him in order that he might
direct the project. At the end of this fiscal year, steps are being
taken to secure additional support from a funding agency with the responsibility
for the research resting entirely with the University of New Mexico.
The prospects are fairly bright for a continuation of this important
project.

10. Due to field activities and special assignments that have
seemed appropriate for persons in this Department and with funds being
available from research grants to replace University of New Mexico
salary funds, six extra instructional personnel have been employed to
teach various courses in the Department during 1963-64. No one
person employed has taught more than one course during a semester.
In most cases, these people employed have either worked in our program
previously and/or hold the doctorate from this institution and this Depart-
ment so that it has been felt that instruction has not suffered greatly, if
at all, in doing this.

11. A School Plant Laboratory Advisory Committee has been
appointed to assist Dr. Wilson in planning for the use of the laboratory.
The Committee has held two meetings and recommendations have been
made that will provide for a more meaningful use of this important
space. It is felt that this is an area in which significant help can be
provided the public schools of the state.
B. Significant Plans and Recommendations for the Near Future

1. With the approval of the administrator training project by the NIMH, steps are being taken to provide physical space for the project in the basement of the College of Education Administrative Unit. The Dean of the College and other University officials have made arrangements for work to begin very soon. Much planning will need to be done during June, July and August in order that the teaching program will be ready for fall. Screening of applicants is being done in June, 1964. This perhaps represents the most important single job immediately ahead for the Department. Two additional staff members have already been employed and a search is continuing for a third staff member for this training program. These three persons are: a cultural anthropologist, an added person in educational administration and a one-half time social psychologist. Salaries for these additional members are being paid by the National Institute for Mental Health grant.

2. Several members of the Department have been involved in a four-state, joint planning project designed to study and make recommendations for the improvement of the migrant worker situation. The hypothesis is that migrant workers have been greatly handicapped because of their lack of proper educational opportunities. An adult, literate type of education program seems to be in order but some prior research and study are needed locally. Dr. Angel is the staff member
in the Department who has been designated to provide leadership for this project.

3. Dr. Stanley Caplan, who will hold academic rank and will be teaching in this Department, has been employed for the 1964-65 school year. He will also be Director of the Children's Center. Although the Children's Center is a college-wide activity, the fact that guidance and counseling, as well as testing and research programs which are part of this Department, has such a close relationship with the operation of the Center causes the Department to feel a special responsibility in getting this new program underway. Dr. Caplan and other members of the Department see great potential for the Center in the areas of teaching, research, testing and clinical and diagnostic counseling.

4. The Departmental interest in data processing is continuing with a full two-weeks workshop in "Data Processing in Education" being scheduled for June, 1964. Dr. Ryan is the professor responsible for planning and arrangements. A large number of school superintendents and business managers have expressed plans to attend.

5. The plan for studying programs for the preparation of school administrators will be somewhat intensified in 1964 as a result of the newly approved program by NIMH. One action that has grown out of the 1963-64 discussions has been a recommendation that the masters degree in school administration be dropped in the near future. This
degree no longer serves the purpose of providing adequate certification for practicing school administrators. This study will be continuing.

C. Appointments to Staff

1. Dr. Stanley Caplan, who holds the Doctor of Education from the University of California at Berkeley with a major in educational and clinical psychology, was appointed to the staff and officially begins his duties with the Department in September, 1964.

2. Dr. Albert Vogel, who holds the Doctor of Education from American University with a major in Foundations of Education, was appointed to the staff and begins his duties with the Department in September, 1964.

3. Dr. Horacio Ulibarri, who holds the Doctor of Education from the University of New Mexico with a major in educational administration, has been appointed to the staff and officially begins his duties in this Department in September, 1964.

All of these appointments were made prior to June 1, 1964.

D. Separations from the Staff

None.

II. Composite of Information Requested on Individual Biographical Supplements

1. Dr. George L. Keppers was certified as a Psychologist in New Mexico during the first half of 1964.
2. Dr. Patrick Lynch traveled to Chicago and New York in February, 1964, to confer concerning the AFROTC Research project.

Dr. Frank Angel was Teacher and consultant in US/AID in Venezuela during the summer of 1963.

Dr. James Cooper traveled to Nevada to collect data for research on study on "Teacher Gains," during March and April, 1964.

Dr. Keppers served as an Assessment Officer for the Peace Corps during the summer of 1963.

3. Dr. Frank Angel was named in Library of Congress' National Directory of Latin Americanists.

4. Publications by members of the Department:


5. (a) Dr. Angel has been concluding a three-year action research study with Bernalillo schools.

(b) Research program sponsored by the University of New Mexico now in progress, "A Computer Program for Solving Sociometrics with Large Numbers," is supervised by Dr. James G. Cooper. Another of Dr. Cooper's research projects sponsored by the University of New Mexico is "The Stability of Adjusted Mean Pupil Gain as a Criterion for Teacher Effectiveness." Dr. Cooper is also one-half time consultant for Semester II on the Abo Project sponsored by the Office of Civil Defense. Dr. Cooper is supervising a $1400 research project for the Bureau of Indian Affairs to organize certain pupil records.

(c) Dr. Keppers is supervising a research project sponsored by the Research Committee of the University of New Mexico entitled "Multiple Counseling with Parents of Under-Achieving Boys."

(d) Dr. Patrick Lynch is co-sponsoring a research project financed by the Air Force Office of Scientific Research, for two years, amount for first year was $33,382, entitled "Leadership in the R.O.T.C. Cadet Corps."
(e) Dr. Paul Petty was Director, Santa Fe School-Community Survey. Work was in progress from August, 1963, through May, 1964. Amount involved in project was $4,900.

(f) Dr. Devoy Ryan contributed to the Santa Fe School Survey in the area of building evaluation, pupil population projections and community history. He made about twelve trips to the Santa Fe area gathering data for this project.

6. All staff members have been active in state, regional and national professional organizations. The National Conference of Professors of Educational Administration held its annual meeting on the campus at the University of New Mexico in August, 1963, and all members of the Department were active during the Conference.

7. Each member of the Department made one or more professional talks before groups during the past year. All have been active professionally serving as consultants, speaking or participating in conferences.

8. All members of the Department serve on one or more University committees. Dr. Ryan is College representative on the Policy Committee. Dr. Zepper served as Chairman of the College 75th Anniversary Committee. Each serves on one or more college committees. All advise students; three professors serve as University College advisers. Most Department advising is done at the graduate level.

9. Public and civic service is rendered by all members of the Department.
I. General Departmental Information

A. Significant Achievements. The Department of Elementary Education spent much of the year in rethinking the department's graduate offerings. The shift in numbering system caused by the shift to IBM data processing equipment provided the impetus for much of the effort, but the new five-year programs for certification of teachers also were a factor. Five courses leading toward certification as an elementary school teacher in New Mexico were changed so that graduate credit could not be secured for enrollment therein. Expanded graduate offerings in these areas (reading, language arts, social studies, science, arithmetic) were subsequently developed. In addition, several other graduate offerings utilizing the facilities of the Children's Center and/or competencies of the current staff were developed and approved.

Perhaps the outstanding achievement of the Department and, indeed of the whole College, was the upgrading of the quality of student attracted to and permitted to enter programs of teacher education. This achievement was made a reality by instituting a college-wide screening process for applicants desirous of working toward teacher certification. Much staff time went into the screening process, but the Department feels that the time was well spent. Increasingly,
honors students and those with high academic records in the University College are choosing to enter a program leading to elementary school teaching.

B. Significant Plans and Recommendations. Considerable effort was also expended during the year to a radically different undergraduate program proposed by the Department Chairman, largely as a result of evaluations of the program by graduating seniors the past several years. Discussions about the proposed changes are proceeding. Because of increased costs related to a substantial increase in the amount of in-school experiences which would be provided in the new four-year undergraduate program, some problems are being encountered. The program, if finally adopted, will provide a student teaching experience at both junior and senior years instead of the single one at senior level now provided. It would also tie together the methods courses taught on campus with almost immediate use thereafter in a classroom. Numerous details still need to be worked out, but department members are hopeful that at least an experimental section of the new curriculum, if approved by the College faculty, may be underway within a year.

The Department also hopes to be able to add a person in Early Childhood Education to the staff in the near future. Programs for children under six are almost sure to multiply rapidly, especially in urban areas and in those communities where many children are culturally disadvantaged. Preparation programs for teachers of children under six are
non-existent, for all practical purposes, in New Mexico. The new person would, in addition to teaching classes for prospective teachers, help in planning for the establishment of a demonstration kindergarten in the new Children's Center, and consult with KNME on the TV Kindergarten program.

C. Dr. Daniel C. Tredway was added to the staff as of September 1, 1963, as an Assistant Professor of Education. His primary duties are serving as Coordinator of Elementary Student Teaching. Dr. Tredway also teaches methods courses for teachers in arithmetic and science.

D. Dr. Emily Reuwsaat was notified that she would be separated from the staff at the conclusion of the 1964-65 academic year.

II. Composite of Information Requested on Individual Biographical Supplements.

1. Advanced study: L. Helen Walters attended the Inter-American University, Saltillo, Mexico for two weeks during the summer, 1963.

2. Sabbaticals, summer teaching, travel, etc.: Miles V. Zintz was on sabbatical during the academic year 1963-64. He lived in San Jose, Costa Rica, attempting to become truly bilingual so that he is able to teach in Spanish as well as English; and studying elementary education in Latin America.

Emily A. Reuwsaat spent the Christmas vacation period in San Jose, Costa Rica, with the Zintz family.

Harold D. Drummond served as a Consultant to Field Enterprises Educational Corporation in Chicago, Illinois, for a month during the summer, 1963.
3. New scholastic honors: Harold D. Drummond was chosen by Las Capanas as the Teacher of the Month for January, 1964.

4. Publications:


5. Daniel Tredway - No Change

Emily A. Reuwsaat - The Socorro Case Study, published in summer, 1963, by the NMCRSC, co-author, Joe Ulibarri of Socorro.
5. (Continued)

L. Helen Walters - Children's Literature study at Los Alamos; Graduate advisor on theses and problems.

Miles V. Zintz - No change

Harold D. Drummond - Began revisions on *Eastern Hemisphere*, Allyn & Bacon, publication date January, 1965; Visited Public Schools, Santa Fe, as member of team doing survey January 29, 1964.


Emily A. Reuwsaat - Attended NMEA convention, October, 1963; New Mexico Assn. for Retarded Children, November 1-2, 1963; Regional Council for Exceptional Children Convention, Salt Lake City, November 6-9, 1963; (chaired sectional meeting and panel for afternoon of November 7); International Council for Exceptional Children Convention.

L. Helen Walters - None

Harold D. Drummond - (See Annual Supplement to Biographical Record)


Emily Reuwsaat - Consultant to Committee G, Special Services and Special Education, of the New Mexico Cooperative and Research Study Council; Panel member on KNME-TV, April 23, 1964.

L. Helen Walters - Talk at St. Timothy's Kindergarten Parent Group, March 28; State FTA Conference, April 20; Speaker
on Panel-Reading Section, NMEA; Workshop on Children's Literature in San Francisco; NCTE Convention; Extension course Los Alamos; Extension course in Socorro; National Council for Teachers of English, San Francisco.

Miles V. Zintz - on sabbatical

Harold D. Drummond - (See Annual Supplement to Biographical Record)

8. Daniel Tredway - Coordinator, Exchange Program with University of Massachusetts; Member, Professional Laboratory Experiences Committee, College of Education.

Emily A. Reuwsaat - Faculty advisor for University College and undergraduate College of Education students; COE Graduate Sub-committee on Curriculum; COE Education Doctorate Committee; participated in Grants School Study and Santa Fe.

L. Helen Walters - State SEA Convention; Advisors' Leadership Conference; State Convention SEA; Registration Committee of Dedication; Medals of Merit Committee; Insurance and Retirement Committee; Chairman, Learning Materials Center Committee; Scholarship Committee, COE; Advisor to University College and COE students.

Miles V. Zintz - No change

Harold D. Drummond - Member, Registration Committee; Member, Executive Committee, AAUP; Member Advisory Committee on Teacher Education; Chairman, Undergraduate Sub-Committee of Curriculum Committee; Member Curriculum Committee COE; Member, Dean's Advisory Committee, COE.
9. Daniel Tredway - Member Central Methodist Church Education Commission.

Emily A. Reuwsaat - President of Lydian Wesleyan Service Guild of Central Methodist Church; on Commission on Christian Social Concerns (same church).

L. Helen Walters -

Miles V. Zintz - No change

Harold D. Drummond - Member, Albuquerque Public Schools Citizen's Advisory Committee on Recreation; Member Defense Advisory Committee on Education in the Armed Forces; Consultant to Educational Programs Branch, NASA.

10. Daniel Tredway - No changes

Emily A. Reuwsaat - No change

L. Helen Walters - No change

Miles V. Zintz - No change

Harold D. Drummond - No change
1. **General Departmental Information**

A. Significant achievements during the academic year, 1963-64:

1. The Department operated as a single merged organization for its second year in a row. Friction appeared to be almost entirely eliminated and a new cohesiveness and unity of purpose was apparent.

2. The Department greatly improved its performance in the supervision of Professional Laboratory Experiences (student teaching and recreational field work) and its cooperation with other departments in conducting this program.

3. The Department began the installation and development of the Human Performance Laboratory in Carlisle Gymnasium. This laboratory will feature a large atmospheric chamber, which was obtained a year ago from the U. S. Navy, as well as a motor driven treadmill loaned by the Lovelace Clinic. With this equipment, the Department expects to be able to do research related to human performance as it is effected by changes in altitude, work load, and other variables.

4. The Department continued to play a leading role in conducting programs for the training of Peace Corps volunteers.

5. The outdoor swimming pool next to Carlisle Gymnasium was taken out of service.
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6. Plans were made to develop a large number of athletic fields and locker rooms and office facilities on the south campus. The fields and related facilities will allow expansion of recreational intramural programs and will allow the movement of a large part of the varsity athletic programs to the south campus, which should relieve pressure for use of fields on the main campus. It is planned that the Athletic Department would move to the south campus some time in the future which would release locker rooms and office for use by the Department of Health, Physical Education and Recreation.

B. Significant plans and recommendations for the near future:

1. The Department hopes to build a new, large, all-weather swimming pool north of Johnson Gymnasium which will allow us to greatly increase the number of students taking swimming courses in our Physical Education program and participating in swimming as a recreational activity.

2. Room 4, the special exercise gym in Johnson Gymnasium, is one of the most heavily used spaces in this facility. The acoustics in this room have always been quite poor and with increased use the noise becomes even more of a disturbing factor.

3. The combative room in Johnson Gymnasium has never had safety pads on the walls and rails. This represents a clear and present danger to the welfare of the students using this area. With enrollment and class sizes increas-
ing, the hazards will become more pronounced. We consider it essential that this hazard be eliminated in the near future.

4. A serious locker room problem exists in Carlisle Gymnasium. It is essential that a locker rearrangement and plumbing and ventilation repairs be executed in order to make this a functional area.

5. Johnson Gymnasium was originally designed to serve a student population of 10,000. It is anticipated that student enrollment will exceed the projected figure of 10,000 in the fall of 1964. An addition to the Johnson Gymnasium which includes handball and squash courts, a gymnastics area, a corrective therapy room, and additional locker and shower rooms is a part of the master plan adopted by the University of New Mexico. With the trend to increased enrollment expected in the next years it is highly desirable that the administration start planning for the construction of this addition which will be essential if we are to continue to fully serve the needs of the student body.

C. Gifts:

None

II. Composite of Information Requested on Individual Biographical Supplements

A. Advanced Study:

1. Robert Knight Barney - Bachelor of Science - University of New Mexico - 1959. Master of Science - University of New Mexico - 1963.
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2. Bruno Geba - New UNM catalog entry: University of Vienna, Absolutorium, Doktorat au der Philosophischen Fakultaet. ACSM.

3. Mercedes Gugisberg - Studies at University of Colorado during one summer session auditing Children's Rhythm, Normal Exploration, and Psychological Foundations of Learning.

4. Naomi Louise Mills - Finished Master of Science Degree at Arizona State University. Graduate Courses at Stanford University.


7. Charlotte Piper - Working on Masters Degree in Recreation, University of New Mexico.

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

1. Frank E. Papcsy - Travel: South America, Dutch West Indies, Jamaica, Barbados.

C. New Scholastic Honors, Fellowships, etc:

None

D. Publications (give title, publisher or name of journal, number of pages, date, etc.):

1. Frances McGill - Dissertation "A Determination of the Energy Cost of Golf"

2. Bill Weeks - Two page article - September, 1963 issue - Coach and Athlete New Mexico Wham issue.

E. 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):

1. Lloyd R. Burley - "The Relation Between Five Personality Factors and the Image of a Group of Physical Educator-Athletic Coaches".

2. W. A. Bynum, Jr. - Designed and presently developing Human Performance Laboratory.

3. Bruno Geba - Research Assistant at the Department of Physiology of the Lovelace Foundation for Medical Education and Research.
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4. Naomi Louise Mills - "The Relative Effectiveness of Three Methods of Teaching Bowling to Beginner Bowlers".

5. Frances McGill - Study of the physical competence of women conducted at Lovelace Foundation. Application for research grant in process - study of the acceleration of heart rates during activity.

6. Armond H. Seidler - Supervised construction of Human Performance Laboratory at UNM.

F. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc):


2. Lloyd R. Burley - Representative to the Representative Assembly of the SW District of AAHPER. Member Executive Committee New Mexico Association for HPER. Member Advisory Committee to the President of NMAHPER.

3. W. A. Bynum, Jr. - NM Educ. Assn; NMHPER; College PE Assn; National Convention AAHPER; Nat'l Wrestling Coaches Meeting; WAC Wrestling Coaches Meeting.

4. Woodrow W. Clements - Member NMEA, Chairman UNM Section of NMEA. Member of National Association HPER & NMAHPER.


7. Mercedes Gugisberg - AAHPER - State Membership Chairman American School Health Assn. - Fellowship Chairman.

8. Naomi Louise Mills - NMACA Delegate to Coronado Camping Conference. NMACA Delegate to Pacific Court Camping Conference.

10. Frank E. Papcsy - President, NM Recreation Association, Exhibits Manager SWDAAHPER, Representative to the Representative Assembly National AAHPER, Washington, D.C. District Advisory Board NRA, Dallas, Texas. Physical Education Association, San Francisco. American College of Sports Medicine, Los Angeles.


12. Charlotte Piper - AAHPER; Western Society of PE of College Women; Natl. Aquatics Judge; NM Recreation Assn. Vice-President of NMAHPER (Student section). Executive Board of NM DGWS. Representative to Intermountain Conference for College Physical Educators.


G. Other professional activities:

1. Robert Knight Barney - Two television appearances in conjunction with the publicity of the University of New Mexico Varsity Swimming team.

2. Lloyd R. Burley - Panel member Student Section Honolulu: "What is the Importance of Health, Physical Education, and Recreation in our American Society". Panel member: "Coordinating Recreation Programs - Special Phase: At the National Level".


4. Bruno Geba - Consultant for the Sandia Peak Ski and Aerial

5. Gladys E. Milliken - New Mexico Association for Health, Physical Education and Recreation: Chairman of registration for State Convention.

6. Frances McGill - Referee - State AAU Track meet for women. Consultant - Girls Division of NM Activities Association Conducted Officiating Clinic - New Mexico State University. Executive Committee - New Mexico DGWS.

7. Frank E. Papcsy - Consultant State Dept. of Education, Presentation and Resolution of State Certification of PE Teachers before TEPS, Vice Chairman Gov's Council on Youth Fitness.


10. Armond H. Seidler - Numerous off-campus talks to service clubs, P.T.A., etc. Consultant Sandia Corporation.

11. Ella May Small - Chairman College Health Course Committee for New Mexico State Coordinating Committee - Health. Vice President elect, Health Education NMAHPER.


H. Non-teaching University Service (administrative, committee work, faculty advisor, etc):

1. Barney, Robert Knight - Varsity Swimming Coach. Faculty Advisor for the University College. Chairman, Department of Physical Education's Committee on planning a proposed new aquatic facility.

2. Lloyd R. Burley - Research and Education Council, College of Education; UNM and Graduate Sub-Committee on Curriculum; Curriculum Committee of Department of HPER; Chairman of Graduate Committee; Chairman Library Acquisitions of HPER.

3. W. A. Bynum, Jr. - Faculty Advisor; Varsity Wrestling
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AND RECREATION

Coach; Coordinator Outward Bound Program for Peace Corps.

4. Woodrow W. Clements - Member of Athletic Council, Learning Materials Center Committee; The Professional Laboratories Experiences Committee, Chairman Coronado Credit Union, Chairman UNM Section NMEA, Special Supervisor Student Teaching PE, Campus Civil Defense and Safety Committee.

5. Bruno - Geba - Faculty Advisor for the UNM Ski Club.

6. George B. Gilmore - Member of Physical Education Committee; Faculty Advisor.

7. Mercedes Gugisberg - Chairman of HPER Curriculum Committee; Chairman for PE Curriculum Committee for Department; Evaluation for major and minor transfers.

8. Edward H. Heath - Faculty Advisor, Recreation Major's Club 1963-1964; Member of Curriculum Committee Department of Physical Education.

9. Naomi Louise Mills - Advisor of University College Students; Tennis Team Coach Advisor to Minors in Physical Education; W.R.A. Advisor Curriculum Committee for HPER.

10. Gladys E. Milliken - Sophomore major advisor of University College; Member of Student Affairs Committee; Member of Learning Materials Center Committee; Member of HPER Committee until March; Assisted in women's swim meets; also state high school swim meet; Treasurer and chairman of registration for Winter Conference; Supervisor of Womens softball game.

11. Frances McGill - Sponsor of Womens Golf Team; Advisor of Majors & Minors Club.

12. Frank E. Papcsy - Faculty Advisor of University Soccer League; Curriculum Committee.

13. George T. Petrol - Conducting clinics for local baseball groups - Pony League, Etc.

14. Charlotte Piper - Winter Conference for Physical Educators; Duke City Aquatics Assoc. "Prof. of the Month," Sponsor of NM Jr. Miss Nat'l Pageant; Extramural Director for UNM women; University College Advisor; Coach Women's Swim Team-trips to Colo., Ariz., Calif.; Intramural Sports day and UNM Intramurals.

15. Ella May Small - Grants & Santa Fe School Studies; Bureau of Educational Service and Research Undergraduate subcommittee
15. on Curriculum; College of Education; Advisor Senior Women P.E. Majors and for H. ED. Minors; Chairman of Health Ed. Curriculum Committee.

I. Public Service (Church activities, Community Chest, Boy Scouts, etc.)

1. Robert Knight Barney - Active in Red Cross aquatic instructional programs; Member of the Directorate Board of the Duke City Aquatic Association.

2. Lloyd R. Burley - Albuquerque, YMCA Camp Committee; Chairman Day Camp Committee; First Aid Merit Badge Counselor Boy Scouts; First Aid Instructor; American Red Cross.


4. Edward H. Heath - Consultant, Crippled Children's Camp; Consultant Mentally Retarded Children; Recreation Consultant of Albuquerque Public Schools; Recreation Consultant, Albuq. Parks and Recreation Department.


7. Frank E. Papcsy - State and National AAU Fitness Chairman.

8. Charlotte Piper - Host family for Australian American Field Service student; appointed to selection Committee; Heart Fund Drive; Girl Scout area board; Red Cross Swim Program Sorority Alliance Board; Sandia Base Women's Club; Montgomery Civic Association.

J. Personal Information (any change in marital status, number of children, citizenship, military status, etc.)


3. Bill Weeks - Selected for Promotion from Capt. to Major-USMCR.
The Report of the Department of Home Economics
July 1, 1963 - June 30, 1964

Grace L. Elser, Chairman

I. General Departmental Information

A. Significant achievements during the academic year, 1963-1964.

The completion in 1963 of the Home Economics building and the Children's Center as two of the eight buildings of the College of Education Complex has contributed to increased interest and enrollment in Home Economics on the University campus. The Home Economics building was occupied in March 1963, and the furnishings for the student lounge and the living area were purchased in 1964. The Children's Center was first occupied in June 1963, and previously unfurnished areas there have now been equipped. Consequently, all of these spaces provide more room for students' experiences.

The big event of the 1963-1964 school year for the Home Economics Department was the special program for Home Economics, February 23, 1964, as a part of the dedication programs for the College of Education Complex.
Dr. Ruth Hall, Director of the School of Home Economics, and president-elect of the American Home Economics Association, spoke on "Families in Focus" in the Home Economics building. Following Dr. Hall's speech, Mrs. Elizabeth P. Simpson, chairman of the Home Economics Department at the University of New Mexico from 1918-1952, was honored with a tea. Her portrait painted by Jane Mabry of Albuquerque and given to the Department by Dr. Florence Schroeder was hung in the north lounge of the Home Economics building. That room was named the Elizabeth P. Simpson Room. All former graduates of the Department and many friends of Mrs. Simpson were invited to the program and tea. About 150 people attended and a number came from long distances. This occasion also celebrated 50 years of Home Economics at the University.

The convocation on February 25, at which Senator Clinton Anderson was the speaker and honored by the University, opened the 75th Anniversary year of the founding of the University of New Mexico. Two days of educational programs followed.

The Home Economics Department has continued to offer four curricula for majors and degrees for these
are conferred by two colleges. The College of Education offers a Bachelor of Science degree for two different programs, one in Home Economics Education and one which is a combination of Home Economics Education and Dietetics. The College of Arts and Sciences also offers a Bachelor of Science degree for two programs: one is Dietetics and the other is General Home Economics. Minors may also complete a program in General Home Economics.

In 1963-1964 there were 155 majors, 122 regular ones and 33 special ones, enrolled in Home Economics. This is a 50 per cent increase in majors over 1962-1963. There were 263 other students or a total of 418 individual students taking Home Economics courses.

B. Significant Plans and Recommendations for the Near Future.

Up to the time the new facilities were occupied, it was necessary to use the same space for the nursery school in the fall and for the home management house in the spring. With increased enrollment and separate facilities now available, home economics courses using the nursery school as a laboratory should be offered every semester. As this is the
plan for 1964-1965, it is necessary to have an additional faculty member who can teach courses in home management and manage the home management house, by Semester II, 1964-1965.

It is planned that the Bachelor's degree conferred on Home Economics Education majors by the College of Education be changed from Bachelor of Science in Education to Bachelor of Science in Home Economics Education. This would be logical if a Master's degree is conferred by the College of Education at the University, as that should be a Master of Science in Home Economics Education.

Since the new regulations for permanent certification of teachers, which took effect July 1, 1963, require that a teacher must have 30 hours of a planned five-year program beyond a Bachelor's degree or a Master's degree, the Department of Home Economics is revising its curriculum for teachers. In the undergraduate program, provision will be made for a sufficient number of elective hours so that a student may have a required minor. The Home Economics faculty is also reviewing courses and outlining new courses.
and will request graduate credit for additional courses. A planned five-year program in Home Economics will be presented for approval to the College of Education faculty in September 1964. Other necessary steps to assure the program will be taken before time for catalog copy in December. Only two institutions in New Mexico, New Mexico State University and Eastern New Mexico University, are now offering a fifth year program in home economics.

Mrs. Catherine Dicks Myers plans to ask the State Board of Education to designate the Home Economics Department of the University of New Mexico as one of two reimbursed departments. If this is approved, that portion of the salary of an instructor which is devoted to Home Economics Education including supervision of student teaching will be paid to the University. There will also be an allowance for mileage and expenses for attendance at regional home economics education meetings.

The Department of Home Economics also plans to request, through the proper channels, permission to offer a Master of Science degree in Home Economics Education by the summer session of 1965.
At the present time, the only institution in New Mexico offering a Master's degree in Home Economics is New Mexico State University. It seems logical that if only two institutions will be permitted by the Board of Educational Finance to offer such a degree that the University of New Mexico should be the second one. Mrs. Catherine Dicks Myers, State Supervisor of Home Economics Education in New Mexico, will support this request for the University of New Mexico to be one of two institutions in the state offering a Master's degree in home economics.

As the faculty of the Department anticipates favorable action regarding a graduate program, it is recommended that the person employed in September 1965 have a major in Home Economics Education, preferably a doctorate in this field. Such a staff person would direct graduate study in this area as well as teach subject matter courses.

If graduate work leading to a Master's degree is approved, a graduate assistant in the Home Economics Department will also be desirable. Her assignment might be assistant nursery school teacher. This would relieve the load of Dr. Florence Schroeder so she
may teach at least one additional course to University students.

C. **Appointments to Staff.** None

D. **Separations from Staff.** None

II. **Composite of Information Requested on Individual Biographical Supplements.**

1. **Advanced Study:** **Ruth B. Harris,** Conference on College Teaching of Foods and Nutrition, University of Wisconsin, July 1963.

2. **Sabbaticals, summer teaching, travel, etc.:**
   - **Grace L. Elser** made a trip to Houston and San Antonio, Texas. Taught three different contingents of Peace Corps trainees for South America.
   - **Ruth B. Harris** taught three different contingents of Peace Corps trainees for South America.
   - **Florence Schroeder** taught one unit of PCV's going to Colombia.

3. **New Scholastic honors, fellowships, etc.:** None

4. **Publications:** None

5. **Other research projects, etc.:** None

6. **Activities in learned and professional societies:**
   - **Grace L. Elser:** Participated in a one-day conference of representatives of all institutions of higher
learning in New Mexico offering home economics. coordinated by Dr. Alberta Hill, Program Specialist for Pacific Region, U.S. Office of Education, and Miss Catherine Dicks, State Supervisor of Home Economics Education in New Mexico; member of National Coordinating Committee of College Teachers of Foods and Nutrition; attended meeting of Pacific Region, South, of College Teachers of Foods and Nutrition, University Park, New Mexico, February 1964; participated in conference on Home Economics Education, Pacific Region, Reno, Nevada, March 1964; attended meetings of NMEA and NMHEA in Albuquerque, October 1963.

Mrs. Ruth B. Harris attended meeting of College Teachers of Foods and Nutrition, Pacific Region, South, University Park, New Mexico, February 1964: panel discussion leader at meeting and elected chairman for two years; attended meeting of National Coordinating Committee of College Teachers of Foods & Nutrition, Chicago, April 1964; chairman of Community Services Project, Albuquerque District Dietetic Association; participated in one-day conference of representatives of all institutions of higher learning in New Mexico offering home economics.
Florence Schroeder attended state meeting in Santa Fe, April 3, 1964 on "Day Care Centers for Preschool Children."

Imogean McMurray gave a talk on "What is the New Mexico Home Economics Association," at spring meeting of NMHEA in April.

7. Other professional activities:

Grace L. Elser participated as a member of survey teams in Grants and Santa Fe schools.

Florence Schroeder did team teaching with Dr. Emily Reuswaat and Dr. Robert Doxtator on core course, Human Growth and Development.


8. Non-teaching University service:

Grace L. Elser: Member of Coordinating Committee on Teacher Education composed of faculty members of College of Education and College of Arts and Sciences; Member of Advisory Committee and Committee on Undergraduate Curriculum of College of Education; Advisor for Kappa
Omicron Phi, Home Economics honorary; Advisor for majors in Home Economics enrolled in the College of Education or the College of Arts and Sciences; Advisor for Pi Lambda Theta, honorary for women in Education.

**Ruth B. Harris:** University Committee on Retirement and Insurance; Advisor to Campanas, Junior Women's honorary organization; Chairman, Flower Fund, College of Education, Member of 75th Anniversary Social Committee; Advisor for University College students.

**Florence Schroeder:** Faculty advisor for 24 University College students; Member COE graduate Sub-Committee.

**Imogeann McMurray:** Committees for COE: Scholarship, Learning Materials Center, Banquet for Dedication; University Committee on Registration; Advisor for UNM Chapter of AHEA; Advisor for University College students.

9. Public Service:

**Grace L. Elser:** Member of Berean Circle, Immanuel Presbyterian Church; elected Board Member of Altrusa, women's service organization.

**Ruth P. Harris:** Troup organizer, Girl Scouts; Vice President of PTA; Active in two church societies.
Florence Schroeder: Member of Board and consultant for Special Education Center; Board member and consultant for Martineztown Community Center and consultant for their Nursery School and Kindergarten program.

Imogean McMurray: Member of El Segundo Chapter of American Business Women's Association; teacher of class in Sunday School of First Baptist Church.

10. Personal Information: None
THE REPORT OF THE DEPARTMENT OF SECONDARY EDUCATION
July 1, 1963 - June 30, 1964
Wilson Ivins, Chairman

I. General departmental information

A. Significant achievements during the academic year include participation in efforts of the Department of English to develop a new major for prospective teachers of English. Outcome of this process was a major that was adopted by the English Department for all students. Discussions were advanced also in the Advisory Committee for Teacher Education and between this department and the departments concerned with regard to preparation of a new major for speech therapists, for drama majors in the College of Fine Arts who wish to teach and for geology majors in the College of Arts and Sciences who wish to teach.

The department also sponsored its fourth successful Academic Year Institute (NSF) under direct supervision of Mr. Zweig and with assistance from the director, Mr. Ivins. Execution of plans for the fifth institute, to begin 15 September, 1964 and preparation of a proposal for a sixth institute for 1965-1966 was well advanced at the time of this report.

Six persons completed the Master of Arts in Secondary Education degree and approximately fifteen finished the Master of Education in Science degree. Most of the latter group were participants in the 1963-1964 Academic Year Institute. Two persons passed doctoral comprehensive examinations under sponsorship of members of the department.
B. Conversations within the department concerning our plans for a fifth year program leading to professional licensure, a masters degree, or a continuing five year secondary certificate as well as for a special program designed to provide for certification cum graduate study program for graduate students from non-teacher education programs have progressed. We anticipate actual presentation of proposals for these programs next year.

C. Mr. Donald Johnston, a graduate of St. Johns University and New York University has joined the staff as Assistant Professor of Education. He will work primarily in student teaching.

Mr. Carl Zweig, formerly part-time instructor in Education has joined the staff as Assistant Professor of Education. Mr. Zweig will concentrate his work in Science Education and in so doing, act as Director of the Academic Year Institute (NSF) and Director of the Northwestern (New Mexico) Regional Science Fair.

D. There were no separations from the staff.

II. Composite of information requested on individual biographical supplements

A. Advanced study

Mr. Warner received a Specialist of Education certificate from the University of Michigan. He also completed 14 graduate hours during summer school at the Texas A & M University.

B. Sabbaticals, etc.

Mr. Crawford returned after leave of absence from June 1, 1961 to August 1963 as Director of Education, United States Civil Administration, Ryukyu Islands, Okinawa.
Mr. Runge completed special project work for State Department of Education in the summer of 1963.

Mr. Warner traveled through many Texas cities reviewing historical centers.

C. New scholastic honors, fellowships, etc.

None.

D. Publications during the period


Principles of Debate (editor), Encyclopedia Britannica Press.


E. Other research projects or creative work in progress or completed during period

Mr. Brown related information on technical skills for the Peace Corps.

Mr. Crawford was Co-Director, Santa Fe Public Schools Survey, Bureau of Educational Service and Research.

Mr. Ivins completed a survey: "Team Teaching in Southwestern Secondary Schools" sponsored by a grant from the University of New Mexico Research Committee. He also has a survey, with Mr. William Mason, in progress, "Attitudes of New Mexico Junior High School Principles Toward Proposed Evaluative Criteria for Junior High Schools."

Mr. Runge evaluated studies of pre-student teaching professional laboratory experiences of College of Education. He surveyed various aspects of vocational education in New Mexico for State Department of Education.

Mr. Warner is presently working on a research problem involving teaching machines and programmed learning in industrial arts.

F. Activities in learned and professional societies

Mr. Brown attended the New Mexico Industrial Arts Convention in November of 1963.

Mr. Crawford attended the annual meeting of the National Association Secondary School Principals in Chicago.
Mr. Doxtator attended NCSS in Los Angeles, November 1963. He also attended the Great Plains Planning Conference, Cooperative Production Project, May 1964. Was advisor to EPC and reviewed two work papers by mail.

Mr. Ivins presided at a general session of the national meeting of National Association of Secondary School Principals and moderated a panel on "Guidance", at the fall meeting of New Mexico Association of Secondary School Principals.

Mr. Prouse was the luncheon speaker in April at the state meeting of New Mexico Association for Supervision and Curriculum Development on "The Individual Teacher and Curriculum Change". Also in April, he was the banquet speaker for Student Education Association.

Mr. Runge continued his membership on USOE Research Committee and attended meetings held in Washington, D. C., November, 1963 and Chicago, May, 1964. He is also a member of AST Research Committee and attended its meeting in Chicago, February, 1964.

Mr. Warner is a director of the New Mexico Industrial Arts Association and co-editor of the Newsletter for that association. He was also a committee member of the Albuquerque Industrial Education Fair.

G. Other professional activities

Mr. Brown participated in the Industrial Arts Fair, April, 1964. He was a consultant for the Grants Schools Survey. For the Peace Corps he is a coordinator of technical skills.

Mr. Crawford was a consultant for the Grants Public Schools Study conducted by the New Mexico Cooperative Research and Study Council. He
was the speaker for the annual meeting of the Roswell Education Association.

Mr. Ivins served as a member and temporary chairman of the New Mexico State Committee of the North Central Association of Secondary Schools and Colleges, representing the committee at the annual meeting in Chicago. He addressed the New Mexico Chapter of American Public Relations Society, and Monroe Junior High School PTA. He directed the secondary education evaluation phase of the Grants New Mexico public school study; participated in the Santa Fe public school survey; and spoke to Albuquerque Civitan Club on "Teacher Education".

Mr. Prouse was a speaker on numerous occasions (convention of Professional Bookmen of America, Junior High section at state convention of New Mexico Education Association, at three-hour sessions of management conferences of Southwest Management Development Program conducted at UNM College of Business Administration. He also conducted a morning pre-school in-service session for English teachers of Jackson Junior High School, and an afternoon session for Highland High English teachers. He served as a consultant on national project on illiteracy for the Encyclopedia Britannica Press and General Programmed Teaching Corporation.

Mr. Runge was a speaker representing UNM and the 75th Anniversary at the Sunrise Optimist Club, North Side Lion's Club, Delta Kappa Gamma, and Altrusa Club. He was also a member of the planning committee
for Governor's State conference on Vocational Education. Attended a number of other meetings such as Secondary School Principals, Phi Delta Kappa, student teaching supervisors and cooperating teachers. He also attended an invitational one-week clinic on experimental design and research in vocational education at Pennsylvania State University, May, 1964.

H. **Non-teaching University service**

Mr. Brown was Industrial Art Education adviser, Education College Scholarship Committee chairman, Education College Undergraduate Curriculum Committee member, also a member of the University Scholarship Committee.

Mr. Crawford was appointed sub-editor, College of Education Series, Publications Committee.

Mr. Doxtator served on the University Publicity Board; Sub-Committee of the Graduate Committee (COE), Honorary Degrees; Undergraduate Curriculum Committee (COE); Education Doctoral Committee (wrote framework for interviewing candidates) (COE); Learning Materials Committee (COE); as sponsor of Phi Delta Kappa, SEA; Coordinator Library orders, COE; School-Faculty Lab Committee; and served on several doctoral committees.

Mr. Ivins served as member of the University Honors Council.

Mr. Prouse was elected "Professor of the Month" and "Professor of the Year" by Las Campanas and the Union Program Directorate; served as Chairman of the UBM 75th Anniversary Executive Committee; Faculty Marshal at Commencement, June, 1963; he also served as member of Graduate Sub-Committee on Curriculum (COE), Policy Board of Bureau of Educational Service and Research (COE). He assisted in development of the proposed
new English major for prospective secondary school teachers and served as debate judge at intercollegiate tournament. He was a speaker on numerous occasions in connection with the 75th Anniversary events and was commentator for KNME-TV remote broadcast of Opening Ceremonies of the 75th Anniversary year.

Mr. Runge was a member of the University Summer Session Committee, Chairman of the College of Education Committee on Professional Laboratory Experiences, and member of the College of Education Curriculum Committee.

Mr. Warner was a member of the Learning Materials Center Committee and the Scholarship Fund Committee both of the College of Education, and was faculty advisor of the Industrial Arts Association.

I. Public service

Mr. Brown was a Marshal of the Ballut Abyad Shrine Divan and Guardian Treasurer of Job's Daughters Bethel 5.

Mr. Doxtator was Chairman of Cub Pack 390 of the Aztec School.

Mr. Prouse spoke at an Albuquerque Chamber of Commerce breakfast, Albuquerque Optimists Club luncheon, and at an Albuquerque High School honor students breakfast.

Mr. Warner was a member of a church choir and was president of a church school group.

J. Personal information

Mr. Crawford's son Gary, graduated from Medical School.

Mr. Runge's daughter was married to Robert Geilenfeldt.
Preface

Engineering, as a distinct field of American education, is now over 100 years old. Never before, however, has there been so much change, so much experimentation, so much searching about for better educational methods, so much critical self-examination. Brought on by the post World War II explosion of scientific and technological breakthroughs, engineering schools are confronted with the virtually impossible task of educating young engineers to face a whole series of future technologies whose identities cannot now even be imagined, much less identified.

In its efforts to best serve industry and the engineering profession, engineering education now finds itself facing a bifurcation of educational emphasis. Engineering schools are presently striving to keep abreast of the mushrooming technology of the space age and, at the same time, educate graduates to satisfy industry's more humdrum needs. In many ways, these two goals are incompatible. In trying to satisfy the demands of the burgeoning aircraft and space industries, many schools have been swinging far away from the more traditional engineering functions toward engineering science. Engineering science, in this context, may be defined as the rigorous, mathematical and scientific treatment of engineering principles with little or no emphasis placed on the current professional state of the art. One effect of this swing is that many schools increasingly
are moving toward offering generalized rather than specialized engineering curricula.

Although these new directions in engineering educational emphasis are pleasing to some, many elements of industry and the engineering profession are offering strenuous opposition. It is claimed, with considerable justification, that industry is more and more having to finance most of the specialized training of the young engineers it hires.

Clearly, engineering education in America is at a crossroads. Dr. Eric A. Walker, President of Pennsylvania State University and an internationally known engineer, has stated that the most likely development is that engineering schools will choose between two educational paths. One of these will emphasize the mathematical, scientific, and theoretical fields of study. The other will follow the more traditional professional specialties, stressing design and similar engineering fundamentals.

Presently, engineering education is conducting a three-year study entitled "Goals of Engineering Education." Financed largely by the National Science Foundation and headed by Dr. Walker, this study is directed toward the formulation and implementation of the best possible curricula for today's engineering students and tomorrow's professional engineers. Every segment of engineering education and the engineering profession is being brought into this very comprehensive study.

In its association with the "Goals" study, a committee of the College of Engineering at the University of New Mexico has devoted many hours of discussion and deliberation to the
question of where engineering education at U.N.M. should be
directed in the years ahead. Unanimity of opinion in the
committee seldom occurred, and the final report of the "Goals" study in 1966 may necessitate presently unsuspected changes
during future years. Nevertheless, a basic philosophy of
future educational emphasis in the College of Engineering at
U.N.M. did emerge. Considering the geographical area in
which the University is located, the market that it serves,
and from which the bulk of its students come, a continued
emphasis on professionally oriented curricula seems to be
the more appropriate course of action. Let it be quickly
pointed out that such direction in no way connotes a less-
ening of depth, rigor, mathematical or scientific preparation.
On the contrary, present professional practice is calling
for graduates with increasingly rigorous and sophisticated
theoretical backgrounds.

The important point here is that a decision has been
made against the development of an undergraduate program at
U.N.M. designated solely as Engineering or Engineering Science,
with only one type of bachelor's degree being awarded in
Engineering. Some universities have already established programs
of this type and others are in the formative stage. In short,
the traditional curricula designations such as electrical and
mechanical engineering have been replaced by a single, generalized
curricula. This may be a completely satisfactory approach for
some engineering schools, and surely every school should not
be cast in the same mold. Nevertheless, for a state university
such as New Mexico, the College of Engineering feels that it
should not make any sudden and complete transition to the generalized engineering science plan.

Although the preceding indicates that the College of Engineering at U.N.M. intends to retain its present curricula specialties, it is essential to recognize that great changes are occurring and will continue to occur in engineering education. It is partially the purpose of this Annual Report to summarize such changes and activities that have occurred during 1963-64. Included with this covering report are the individual reports of the various segments of the College of Engineering. The reader is referred to these reports for specific information concerning departmental activities.

Undergraduate Program

The new freshman mathematics courses (Mathematics 48 and 49) were offered for the first time during the 1963-64 academic year. It is still too early to assess the real merit of these new courses, but indications are that they will serve their intended purpose very well. An unfortunate element associated with the initiation of these courses was the excessive percentage of unsatisfactory grades given to students at the end of the first semester. A conference with the Department of Mathematics hopefully has ameliorated this particular difficulty.

The U. S. Navy NESEP(A) program will reach its full stature with September 1964 registration. Under this program, the U. S. Navy sends to U.N.M. each year a group of about 25 enlisted men to begin a four-year approved course of studies in electrical engineering. The first class of these students enrolled in the fall of 1961 and will be seniors during the 1964-65 academic
year. Directed by Dr. J. S. Lambert, the program will have approximately 100 students in it, evenly distributed from the freshman through the senior years.

During the year, the University acquired a considerable amount of new computer equipment including an IBM 1620 computer. This particular development has been eagerly awaited by the College of Engineering for several years, and the new equipment is enabling the College to take long-delayed steps toward increased computer application and usage in its undergraduate, graduate, and research programs. As of 1964-65, the freshman engineering curriculum will include a required course in computer programming and usage. Dr. Houghton and Professor Gafford will teach a pilot section of this course during Semester I, 1964-65. Computer usage in many engineering undergraduate areas skyrocketed during this past year after the new IBM 1620 became available.

As a matter of fact, computer usage on the U.N.M. campus generally mushroomed so quickly that the key punch machines in the research center where the IBM 1620 is located were quickly swamped, and a need for additional keypunches in the College of Engineering became immediately evident. The Alumni Development Fund has approved the furnishing of one keypunch for use next year in conjunction with the required freshman engineering computer course. This machine will be located in the Graphics Division in the Geology Building. Another keypunch will be rented by the College of Engineering and will be located in the Engineering Complex itself.
The College of Engineering is very gratified that, at long last, the University has procured some new, modern-language computer equipment. The tremendous computing work-load presently being handled is considered to be comforting proof of a need which the College has been pointing out for several years. Indeed, the approaching saturation of the 1620 installation is already presaging the need for more computer capability. IBM System 360 seems to have much to offer in this regard and preliminary studies should be initiated promptly if the University is not to encounter a serious computing bottleneck in the years just ahead.

It is encouraging to note that the College of Engineering continues to attract high-quality undergraduate students into its programs. This fact may be illustrated by examining the performance of entering engineering freshmen on their placement tests as compared with the performance of the entire entering freshman class at U.N.M. Table 1 presents data on mental aptitude of beginning freshmen as obtained from the SCAT entrance test. Table 2 shows percentages of engineering freshmen who passed the English Proficiency Examination on entrance as compared to all entering freshmen.
TABLE 1*
PERFORMANCE OF ENTERING FRESHMEN
ON SCAT ENTRANCE TEST
SEPTEMBER 1963

<table>
<thead>
<tr>
<th>Percentile</th>
<th>Psych Engineering Freshmen</th>
<th>All University Freshmen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above 90</td>
<td>21.2</td>
<td>14.4</td>
</tr>
<tr>
<td>Above 80</td>
<td>41.1</td>
<td>28.8</td>
</tr>
<tr>
<td>Above 70</td>
<td>57.3</td>
<td>43.2</td>
</tr>
<tr>
<td>Above 60</td>
<td>66.0</td>
<td>51.9</td>
</tr>
<tr>
<td>Above 50</td>
<td>75.9</td>
<td>63.0</td>
</tr>
<tr>
<td>Above 40</td>
<td>85.5</td>
<td>73.3</td>
</tr>
<tr>
<td>Above 30</td>
<td>92.1</td>
<td>83.6</td>
</tr>
<tr>
<td>Above 20</td>
<td>95.4</td>
<td>91.5</td>
</tr>
<tr>
<td>Above 10</td>
<td>97.9</td>
<td>97.8</td>
</tr>
<tr>
<td>Above 0</td>
<td>100.0</td>
<td>100.0</td>
</tr>
</tbody>
</table>

*Data taken from University College Records

TABLE 2*
ENTERING FRESHMEN PASSING ENGLISH PROFICIENCY EXAMINATION ON ENTRANCE

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering</td>
<td>49.3</td>
<td>56.7</td>
<td>62.9</td>
<td>74.6</td>
</tr>
<tr>
<td>All-University</td>
<td>44.2</td>
<td>54.5</td>
<td>57.0</td>
<td>53.0</td>
</tr>
</tbody>
</table>

*Data taken from University College Records
The data of Tables 1 and 2 become even more striking when it is realized that engineering freshmen were included in the all-University figures.

Two new undergraduate scholarships were established in the College during the past year. The Western Electric Fund established an annual scholarship which will pay the expenses of an engineering student for an academic year. The Craig Elton Bresenham Memorial Scholarship will provide a $150 cash payment each semester. Establishment of these two awards is gratefully acknowledged. Presently, three undergraduate civil engineering students are attending U.N.M. with scholarships provided by the Associated Contractors of New Mexico. In addition, the Albuquerque Branch of the New Mexico Society of Professional Engineers presented the Dean with the sum of $100 to be used at his discretion to assist a worthy student.

Graduate Program

During Semester I, 1963-64, there were 384 engineering graduate students registered, 62 of whom were at the Los Alamos Scientific Laboratory and 16 at Holloman Air Force Base. Correspondingly, the College of Engineering had 23 per cent of all of the graduate students registered at the University. Data published by the American Society for Engineering Education show that the University of New Mexico ranks number 30 in the nation in the size of its engineering graduate program. Electrical Engineering remained the largest graduate department on the campus with Mechanical Engineering in second place.
Late in the fall of 1963, the National Science Foundation announced a new graduate traineeship program aimed at speeding the output of students with advanced degrees in engineering. Under the program, institutions that offered doctoral programs in at least one field of engineering could apply. The College of Engineering submitted a proposal for participation in the program and received seven of the NSF Traineeships. These were stipulated to be 1 for Civil Engineering, 1 for Mechanical Engineering, 2 for Electrical Engineering, and 3 undesignated. These grants become effective with the 1964-65 academic year and provide stipends for the students selected and allowances for the University. These traineeships are especially welcome because they will support full-time engineering graduate students. A large portion of the engineering graduate student group consists of part-time students and more full-time students are needed.

Eight new NASA traineeships were awarded to the University in addition to renewals of the six received last year. These traineeships are for the purpose of supporting doctoral students doing graduate work in the space-related fields of chemistry, mathematics, engineering, geology, and physics. Two of the new traineeships for 1964-65 were awarded to engineering graduate students, one to Dermond Kelleher in Nuclear Engineering and one to Kenneth Miller in Electrical Engineering.

Enrollment and Degrees

In engineering schools nationally, the total freshman enrollment increased 1.5 per cent in the fall of 1963, and the total undergraduate enrollment increased by 0.9 per cent.
These data, together with other indications, possibly presage a turnabout in the steady decline of undergraduate engineering enrollments that has occurred since 1957. This long-term downturn nationally has never been experienced at U.N.M. to any great extent, and College enrollments have continued to grow as illustrated by Table 3.

**TABLE 3**
ENGINEERING ENROLLMENTS AT U.N.M.

<table>
<thead>
<tr>
<th>Classification</th>
<th>1961-62</th>
<th>1962-63</th>
<th>1963-64</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshmen</td>
<td>292</td>
<td>334</td>
<td>364</td>
</tr>
<tr>
<td>Sophomores</td>
<td>183</td>
<td>227</td>
<td>229</td>
</tr>
<tr>
<td>Juniors</td>
<td>167</td>
<td>152</td>
<td>181</td>
</tr>
<tr>
<td>Seniors</td>
<td>122</td>
<td>128</td>
<td>135</td>
</tr>
<tr>
<td>Graduate</td>
<td>436</td>
<td>409</td>
<td>384</td>
</tr>
<tr>
<td>Total</td>
<td>1,200</td>
<td>1,250</td>
<td>1,293</td>
</tr>
</tbody>
</table>

*In University College
**Includes Los Alamos and Holloman

Table 4 presents data on the total College teaching effort.

**TABLE 4**
TOTAL COLLEGE OF ENGINEERING ANNUAL TEACHING LOAD

<table>
<thead>
<tr>
<th>Academic Year</th>
<th>Student Enrollments</th>
<th>Student Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1961-62</td>
<td>5,072</td>
<td>13,334</td>
</tr>
<tr>
<td>1962-63</td>
<td>5,297</td>
<td>13,742</td>
</tr>
<tr>
<td>1963-64</td>
<td>5,667</td>
<td>14,687</td>
</tr>
</tbody>
</table>
Table 5 presents information concerning numbers of engineering degrees produced during the past few years.

**TABLE 5**
ENGINEERING DEGREES

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>B.S.</td>
<td>114</td>
<td>101</td>
<td>96</td>
<td>102</td>
</tr>
<tr>
<td>M.S.</td>
<td>49</td>
<td>97</td>
<td>81</td>
<td>95</td>
</tr>
<tr>
<td>Sc.D.</td>
<td>2</td>
<td>4</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td>165</td>
<td>202</td>
<td>182</td>
<td>201</td>
</tr>
</tbody>
</table>

**Placement**

In 1963 America's schools of engineering graduated only 33,458 engineers (3.7 per cent less than in 1962 and 12.3 per cent less than in 1959). This in spite of the fact that the Engineering Manpower Commission has estimated the nation will need 48,000 new engineers every year through and probably beyond 1971. There is little doubt that demand presently exceeds supply, and a serious shortage of engineers looms in the United States for the remainder of the 1960's.

During the year, articles appeared in national publications such as The Wall Street Journal, Barron's, and Time concerning present job conditions in the engineering profession. Generally speaking, these articles painted a not overly-encouraging picture.

The surprising thing about this is that organizations that should know, such as the Bureau of Labor Statistics and the Engineering Manpower Commission, are alarmed about the imminent possibility of not enough trained engineers being available to support the
economy and America's military posture.

At any rate, this year's engineering graduates were strenuously recruited and received average starting salaries well above those of last year. It must be mentioned, however, that the lower ranking graduate's choice of jobs was more limited than in past years.

During the recruiting season, extending from mid-October to May, 182 companies and organizations sent representatives to the U.N.M. campus, a large proportion of these looking for engineering graduates. Table 6 shows average starting salary figures for this year and last.

TABLE 6
AVERAGE MONTHLY SALARY OFFERS, B.S.*

<table>
<thead>
<tr>
<th>Department</th>
<th>Class of 1963</th>
<th>Class of 1964</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>U.N.M.</td>
<td>National Average</td>
</tr>
<tr>
<td>Chemical</td>
<td>$597</td>
<td>$588</td>
</tr>
<tr>
<td>Civil</td>
<td>542</td>
<td>569</td>
</tr>
<tr>
<td>Electrical</td>
<td>643</td>
<td>607</td>
</tr>
<tr>
<td>Mechanical</td>
<td>597</td>
<td>592</td>
</tr>
</tbody>
</table>

*Data supplied by U.N.M. Placement Bureau.
Average monthly salary offer for all U.N.M. engineering (1964): $625.
National average monthly salary offer for all fields of engineering (1964): $612.

Table 6 shows a leveling off of starting salaries in electrical engineering. Some of this is undoubtedly caused by current cutbacks in federal defense and space programs. The sharp increase noted in civil engineering starting salaries is indicative of increased demand nationally.
It was very encouraging to receive the following communication from Mr. D. A. North of the Humble Oil Co. who has been recruiting on the U.N.M. campus but is being transferred to another area:

"The environment observed in your engineering school is very stimulating; the aggressive willing spirit observed obviously did not just happen, but is part of a dedicated plan of growth and improvement."

Research

Under the able direction of Dr. W. W. Grannemann, the Bureau of Engineering Research continues to attract an increasing volume of research. Details of the individual research projects are presented in the individual departmental reports following. Perusal of these reports will disclose the widely ranging engineering areas under investigation in the engineering research laboratories. In terms of dollar volume of reimbursement, the four largest research departments on the U.N.M. campus are Physics, Electrical Engineering, Chemistry, and Mechanical Engineering in that order.

Table 7 presents data on the steady growth of the engineering research program.

<table>
<thead>
<tr>
<th></th>
<th>Total Reimbursement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering</td>
<td>$305,753</td>
</tr>
<tr>
<td>All-University</td>
<td>873,835</td>
</tr>
<tr>
<td>Engineering, % of All Univ.</td>
<td>35.0%</td>
</tr>
</tbody>
</table>

*Data supplied by Director of Research Services*
Although discussed subsequently in this report, it should be pointed out here that lack of equipment and space continues to inhibit the growth of engineering research. Civil and electrical engineering research, in particular, have reached an upper limit for all practical purposes.

**Student Activities**

The annual Engineering Open House was held February 21-22, 1964. This student-sponsored affair is scheduled during National Engineer's Week and was a great success again this year. Special invitations were sent to high schools all over the state and to junior and senior high schools in Albuquerque. The Associated Students again made funds available to the Engineer's Joint Council to help defray Open House costs. Assisted by U.N.M.'s Department of Public Information, especially good coverage of Open House was achieved in the newspapers and on television. This year, as in the past, the Albuquerque Technical Council provided transportation expenses for out-of-town high school students to attend the Open House. It is believed that this year's Open House attracted the largest number of visitors to date.

Mr. Pat Phelan, a chemical engineering senior, served very capably as president of the Engineer's Joint Council. Mr. C. H. Treat, Instructor of Mechanical Engineering, did a very fine job of working with the engineering students in his capacity as Chairman of the Student Affairs and Awards Committee of the Engineering College.

The Albuquerque Branch of the New Mexico Society of Professional Engineers again honored the graduating engineering
seniors at a special dinner on the evening of October 28, 1963. This annual affair enables many students to meet their future employers and serves to introduce them into the activities of their chosen profession.

Faculty

Effective 1963-64, the following men joined the faculty of the College of Engineering:

Dr. G. D. Bizzell, Asst. Prof. of Chemical Engineering
Dr. M. D. Bradshaw, Asst. Prof. of Electrical Engineering
Dr. L. T. Boatwright, Asst. Prof. of Electrical Engineering
Dr. E. J. Rhomberg, Asst. Prof. of Civil Engineering
Dr. H. D. Southward, Assoc. Prof. of Electrical Engineering.

Dr. Arnold Kochmann, who served as Acting Chairman of the Department of Electrical Engineering last year, was appointed as Chairman.

The engineering faculty again acted as host for the traditional Engineering Homecoming Coffee during the morning of November 16, 1963. This popular affair is always well attended and affords an excellent opportunity for the old grads and the new faculty members to meet and get to know one another.

The size and complexity of the Departments of Civil, Electrical, and Mechanical Engineering have reached the point where essential departmental activities now continue without pause through the summer months. The present arrangement of having these chairmen only on a 9-months contract imposes many difficulties and acts to inhibit the growth of many programs and the initiation of others. It is impossible to hold essential departmental activities in suspended animation for
the three summer months without detrimental effect. Inquiries of many engineering deans over the country indicate that a substantial majority of engineering schools have their departmental chairmen on an 11-months basis. This arrangement is very badly needed at U.N.M. and is a change which simply must be made in the near future.

Effective this year, Professor C. T. Grace became Director of Sandia Programs and Dr. R. C. Dove served as Acting Chairman of the Department of Mechanical Engineering. Dr. Dove's energetic leadership and fresh approach have already contributed much to the advancement of his department. He will become Chairman next year.

On June 18, 1964, Dr. James R. Barton, Chairman of the Department of Civil Engineering, resigned from the University. Dr. Barton will go to South America as Mission President of the Uruguayan Mission of the Church of Jesus Christ of the Latter Day Saints. During his three years as Chairman, Dr. Barton has done an outstanding job in all respects, and it is with profound regret and best wishes that the College bids him farewell. Professor M. C. May has been appointed to serve as Acting Chairman for the 1964-65 academic year.

An excellent example of faculty interest and initiative was the series of fourteen Lectures in Solid Mechanics conducted this year. These lectures, seven each semester, featured prominent speakers and were very well received. Professor M. M. Cottrell of Civil Engineering and Dr. F. D. Ju of Mechanical Engineering arranged and conducted these lectures, and they are to be highly commended for their action in this regard.
For many years, the College of Engineering has allowed its faculty members to earn an additional 25 per cent of their 9-months salaries by doing research on an overtime arrangement. In recent years, about 50 per cent of the engineering staff did research on this basis. Although this overage policy has served a worthwhile purpose over the years, its bad points far outweighed the good, and the College is glad to announce that no overage will be allowed after July 1, 1964.

Labatory Equipment

Proposals were submitted in January 1964 to the National Science Foundation for funds to purchase undergraduate laboratory equipment in Civil and Nuclear Engineering. This was under the NSF Undergraduate Instructional Scientific Equipment program which has provided equipment for both the Departments of Electrical and Mechanical Engineering in past years. Although equipment for several civil engineering areas was requested, the proposal centered about one particularly critical area: equipment for the fluid mechanics laboratory. Both Professor Cottrell and Dr. Whan did excellent jobs of preparing their proposals but, unfortunately, neither proposal was funded.

Personal inquiry to NSF in Washington, D. C. (a Mr. Overmier) brought several comments which will be invaluable in preparing future proposals. However, the comments that were made concerning our most desperate area, fluid mechanics, leave no hope of future help from NSF in this area until U.N.M. itself provides some substantial support. Mr. Overmier stated
that most of the items requested in the fluid mechanics area were considered to be standard equipment that the institution should already have and which NSF will not provide.

What Mr. Overmier said is correct. The fluid mechanics laboratory is hopelessly obsolete (its equipment dates from 1935). We do not have any of the basic items of equipment which even the smallest engineering schools all have these days. Nothing short of a complete reworking of this laboratory will really accomplish much of anything, and if this is to be done, U.N.M. is going to have to fund it.

All of this leads to mention of the equipment-starved condition which prevails generally over the College. Equipment budgets have been so low for so long that there is real need in every area. Equipment loans by agencies such as Sandia Corporation are godsend, but the College lives in daily fear that some particularly critical piece of equipment on loan will be recalled. In addition, this loan equipment applies principally to Electrical Engineering and few items are germane to the other professional areas.

On the positive side, mention must be made of the excellent job done by the Department of Mechanical Engineering this past year in revising and modernizing their instructional laboratories. Assisted by a $26,000 N.S.F. grant, Dr. Dove and his staff achieved an almost complete reworking of their laboratories. The Mechanical Engineering Department is to be commended for their energetic action and imaginative approach.

Also, a grant of $35,000 in Nuclear Engineering was received from the Atomic Energy Commission. As provided in a proposal
prepared by Dr. Whan, the University will be able to expand the Nuclear Engineering Laboratory to include a pulsed-neutron source and time-analyzing equipment.

**Physical Plant**

The 1963-64 academic year has witnessed no real alleviation of the desperate space situation in the College of Engineering. (The word "desperate" is used with full awareness of its dire implications.) In September 1963, the College occupied the office portions of the adjoining Science Lecture Hall and all but one corner of the old Music Building (now called the Engineering Annex). During recent years, many stop-gap measures have been taken by the College of Engineering to alleviate its pressing space problems. In addition to the main engineering buildings, the Science Lecture Hall, and the Engineering Annex, engineering activities also occupy a large portion of Barracks B-1, part of the Research Center, and the third floor of the Geology Building. Thus, the College now occupies all or portions of eleven buildings scattered from one end of the campus to the other.

Presently, faculty office space is overcrowded and there is no place to office newly hired faculty members. Engineering classrooms are being used to the saturation level. There is absolutely no additional laboratory space available for expansion of the engineering research program. The pressures for more space and modern facilities have become acute, and the College must soon acquire a new facility on a relatively large scale. Stop-gap expedients will no longer suffice.

In March 1964, the College of Engineering culminated an
exhaustive study of its existing facilities and, based upon predicted needs, outlined space requirements for a proposed new Engineering Center. This report was submitted to the University Administration for its study and action.

A building item of very modest scope that just can't seem to get going is the extension of the mezzanine floor and addition of an outside fire escape in the Chemical Engineering Building. This construction would not only provide badly needed space at small cost but, more important, would alleviate a very serious safety problem. As presently arranged, there is only one exit from the mezzanine of the Chemical Engineering Building and a fire or chemical explosion in that area could easily result in death or serious injury to students and staff. This condition has been repeatedly brought to the attention of both the Administration and the Physical Plant with no action.

College Activities

The College of Engineering acted as co-sponsor of the following technical meetings held on the U.N.M. campus:


"Technological Explosion", co-sponsored with the American Society of Mechanical Engineers, November 1-2, 1963.

"The New American Concrete Institute Building Code", co-sponsored with the Portland Cement Institute, November 8, 1963.

"Quality Control Techniques and Equipment", co-sponsored with the American Society for Quality Control, April 10, 1964.

Although not a College of Engineering activity, note should be made of six public lectures on Water Resources which were presented during March and April 1964 by the U.N.M. Natural Resources Center. Dr. J. R. Barton, Chairman of the Department of Civil Engineering, served as Director of the Center and the lectures were given by Mr. Blair T. Bower, Consulting Professor of Civil Engineering and Economics, and Robert E. Clark, Professor of Law.

During National Engineers' Week, an Engineers' Luncheon was held on Friday, February 21, 1964, in the ballroom of the New Mexico Union. About 600 engineers attended to hear Representative Thomas G. Morris, a civil engineering alumnus of U.N.M., discuss the role of engineers in the national economy. The luncheon also featured the giving of an award to an outstanding foreign engineering student at U.N.M. Mr. Rowland O. Ajayi, a mechanical engineering student from Nigeria, won the award.

Also during National Engineers' Week from February 16-22, 1964, the College of Engineering prepared a display that was shown in the windows of the Public Service Company at 5th and Central in Albuquerque. This display was part of a permanent College exhibit developed by Professor W. R. Gafford of the Department of Civil Engineering.
I-A. General Information:

The University contracts with Sandia Corporation to operate the Technical Development Program and the Educational Aids Program were continued for the school year 1963-'64.

Upon the retirement of Dean M. E. Farris as Director of the programs, Professor Charles Theron Grace was appointed Director on a half time basis for an eleven month contract. The other half time assignment of Professor Grace was on a nine month basis as Assistant to the Dean of the College of Engineering.

During the illness of Professor Grace, Dean Farris returned to the office of Director for approximately one month in January and February to handle the problems of second semester registration and the initial preparation of the budget for 1964-'65.

THE TECHNICAL DEVELOPMENT PROGRAM

The new class of 1965 entered the program in September of 1963. The class was made up of 38 electrical engineering students and 17 mechanical engineering students. No withdrawals have been reported as of the end of the 1963-'64 school year.
The class of 1964 entered their second year of the program with 38 (one withdrawal 1962-'63) electrical engineering students and 12 mechanical engineering students. One electrical engineering student withdrew from the program during 1963-'64.

The following table shows the progress of this class, with the degrees granted to students of the class of 1964 as well as degrees granted to students who had previously completed the TDP program of 36 hours, but who had not completed degree requirements.

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<th></th>
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<th>MS Degrees June 1964</th>
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**EDUCATIONAL AIDS PROGRAM**

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<th>Ph.D.</th>
<th>L.L.B.</th>
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<td>55</td>
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</table>
Total Students in Degree Programs 183
Graduate Special Students (Unclassified, Post Master's, Post Doctorate) 4
Non Degree Students 50
TOTAL ENROLLMENT FOR SEM. II, 1963-'64 237

DEGREES GRANTED TO EDUCATIONAL AIDS PROGRAM STUDENTS

June 1964:

Engineering
  B.S. Degrees  2
  M.S. Degrees  13
  Sc.D. Degrees  1

Arts and Sciences
  M.S. Degrees  1
  Ph.D. Degrees  1

Business Administration
  B.B.A. Degrees  2
  M.B.A. Degrees  3
  M.I.A. Degrees  1

Education
  B.S. Degrees  1
  M.A. Degrees  1

Total B.A. & B.S. Degrees  5
Total M.A. & M.S. Degrees  19
Total Ph.D. & Sc.D. Degrees  2
Grand Total Graduate Degrees  26

I-C Appointments:
  C. F. Grace, Director - July 1, 1963

I-C Separations:
  H.F. Harris, Director - June 30, 1963
II. Biographical Supplement For Director:

1 through 5 - None

6. Activities in learned and professional societies:


Attended Annual Meeting of A.S.E.E. Southwest Section at Arlington State College of Texas, April 16-17, 1964. Elected Vice-Chairman of Section 1964-'65.

Active in The New Mexico Section of A.S.M.E. and the Albuquerque Chapter of N.S.P.E.

7. Other Professional activities:

Consultant to The Los Alamos Scientific Laboratory for the 12th year.

Judge for The State Science Fair at Socorro, April 11, 1964.

8. Non-teaching University service:

Member of Engineering College Administrative Committee.

9. Public Service:

Member of The Albuquerque Optimist Club.
The Report of the Department of Chemical and Nuclear Engineering
July 1, 1963 - June 30, 1964
T. T. Castonguay, Chairman

Chemical Engineering

I. A.-B. ACHIEVEMENTS, PLANS AND RECOMMENDATIONS

1. Students

The 1964 Graduating Class in Chemical Engineering is comparable in size with the 1963 Graduating Class. A few more undergraduates enrolled in the Department last fall than did in the Fall of 1962. Percentage wise we have continued to be slightly above the National average of approximately 11% in the Chemical Engineering enrollment for the Sophomore year. The student engineers of tomorrow are still in Junior or Senior High School, and most of them don't know yet what profession or business they want to follow. The staff members of the Department have no proven formula whereby adequate and suitable information can be made available to these inquiring young people. Although, in many diversified ways, with help from staff members of the Sandia Corporation we have continued our department's program of judging at the Science Fairs, counseling and participation in Career Days at the Junior and Senior High Schools. The Department has used many aids in guidance work. Most noteworthy the past semester was the use of a 27-minute color and sound film depicting what a chemical engineer does and what kind of young person might want to become a chemical engineer. The film was supplemented by slides and a prepared script useful for guidance work in Chemical Engineering.

For the first time in our history, a large group of students from India enrolled in the Department. The influx of these unexpected enrollees necessitated multiple sections in some classes of the junior year. These additional sections in addition to graduate courses
presented a load for the small faculty which we would not be interested in duplicating.

Several of the undergraduates have been honored by election to the honor societies of the University and Engineering College. More important recognition and awards have been:

Robert Bower  Reserve Officer's Assoc. Award
William P. Christie  Accepted at Nuclear Power School by Admiral Richover
Howard Fullerton  Universal Oil Products Company Scholarship in Chemical Engineering-$500
Raymond W. Harrigan  ASTM
John Harryman  Standard Oil of California Scholarship-$500 A.I.Ch.E. Scholarship Award
George Y. Jumper  George M. Breaca Award in Engineering UEM Delegate to the 6th AF Academy Assm. Professor of Air Science Award Phi Kappa Phi
Patrick F. Phelan  Hamilton Watch Award Charles Leroy Gibson Memorial Award in Chemistry
James A. Heber  ASTM

Election to Office:

A.I.Ch.E.
John Harryman  President
Scotty Wilmath  Vice President
Emiliano DeLaFuente  Treasurer
Walter Bane  Secretary

Engineers' Joint Council
David Bruce  Secretary
Mitchell Kaehr  Treasurer

Sigma Tau Engineering Honorary
David Bruce  President
In recognition of the caliber of our Chemical Engineering graduates, the Department has been awarded the following undergraduate scholarships by industry for the third consecutive year:

The California Oil Company, Western Division Scholarship in Chemical Engineering - $1,000

The Universal Oil Products Company Scholarship in Chemical Engineering - $1,000

Socony Mobil Oil Scholarship in Chemical Engineering - $1,300.

Mr. J. A. Neubauer, Vice President of the Pittsburgh Plate Glass Foundation, awarded this department $1,000. A gift of an Ainsworth Two-Pan Magnetic Dampered Balance was presented to the department by the Shell Oil Company. Recipients of these awards will be chosen during the 1964-65 academic year.

Departmental interest in its graduates, as well as its undergraduates, has been maintained throughout the years by the issue of a Christmas News Letter. This year's letter, Vol. XIV, mailed to the departmental alumni on December 20, 1963, listed the addresses, activities, and achievements of the more than 160 members who have taken their training in the department since the first graduating class, 1948.

A portion of the breakdown of our graduates as of the present time in industry is as follows:

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>In Research and Development</td>
<td>30%</td>
</tr>
<tr>
<td>In Production</td>
<td>15%</td>
</tr>
<tr>
<td>In Top Management Positions</td>
<td>15%</td>
</tr>
<tr>
<td>Completed or Doing Graduate Work</td>
<td>25%</td>
</tr>
</tbody>
</table>

The departmental stress upon fundamentals, good teaching, and undergraduate research provides a type of approach which seems to be appropriate for all students. The department has never been large enough to consider options that lead to specialization.

A project carried on by the students, which the department has supported heartily, is Engineering Open House, held during Engineers' Week.
February, 1964. Hundreds of people have been attracted to this student affair. Many outstanding student exhibits have been shown. The most timely and outstanding exhibit was the working model of the flash distillation process used in the desalting of seawater. This prize-winning exhibit was the work of David A. Bruce and Glenn E. Burge, Juniors in the Chemical Engineering Department.

The undergraduate activities of a more social nature which have been a tradition throughout the years are:

1. The Annual Spaghetti Dinner prepared in the department with attendance last December of more than 100 people.

2. The Annual Spring Steak Fry and Picnic with more than 75 attending held at Doc Long’s Picnic Grounds in the Sandias.

3. The Senior Dinner, given annually by the Department Chairman to the graduating senior class, was held this year at Benter’s Sunset Inn.

2. Curricula

Curriculum revisions, that have been under development for several years, have resulted in changes that will give the students greater depth and breadth in the analytical and theoretical aspects of Chemical Engineering.

In the 1964-65 catalog, thermodynamics has been moved to the Junior program. For years Chemical Engineering has offered a basic course in thermodynamics, using a synthesis of the best material from chemistry, physics, and engineering. The text for the first semester course is Zermansky’s Heat and Thermodynamics, which is widely accepted in American universities. Offering the course in the third year is in line with the engineering science transition taking place in other branches of engineering. The department’s faculty believes this material should be made available to the other departments at this level.
The course sequence in unit operations, Ch.E. 411 and 412 is now using the text, *Transport Phenomena*, by Bird, Stewart, and Lightfoot on an experimental basis. The student reaction has been excellent and the text will be adopted in subsequent years. For Ch.E. 413, heavy emphasis will be placed on separation processes and mass transfer operations.

A new successful concept of teaching analysis and design was introduced with a course in Systems Engineering. Staff members of the Engineering and Operations Analysis Division of the Phillips Petroleum Company have frequently visited the department to guide our efforts in maintaining a proper balance between analysis and design. The design program will undergo considerable revision with the use of computers and the teaching of optimization, regression analysis, and linear and dynamic programming. Most modern chemical industries expect knowledge in these areas and would like an introduction of some material at the undergraduate level. Perhaps this course will incorporate at least the true meaning of synthesis in engineering design.

During the month of March, Technical Seminars were presented by the staff members of the Phillips Organization in the field of optimization, cybernetics, linear and dynamic programming.

With the explosion of knowledge in the past few years, disciplinary boundaries have begun to disappear. We are now in a period in which interdisciplinary efforts are increasingly essential, i.e., in materials research. The new materials required for atomic reactors, outer space, and jet aircraft must have unique properties. A successful program in materials calls for the talents of chemists, metallurgists, physicists and others. Often the greatest success comes when one individual has proficiency in several fields.
Chemical Engineering bridges the gap between physics, chemistry, the life sciences, and electrical, civil and other engineering disciplines. As a result prominent roles in materials research are being played by the chemical engineers. Consequently, the material science course, introduced several years ago, is being revised and improved.

Already our curriculum is packed with courses. Yet technology is expanding daily in the various areas of chemical engineering science. In order to meet the challenges of modern education in chemical engineering, a widespread reevaluation of courses taken outside the department will have to be made with the point of view of dropping some to add others. Also, Chemical Engineers have a very heavy laboratory load. To help solve this problem Quantitative Analysis has been dropped in the Sophomore year. As the University's enrollments rise to projected levels, the department plans to conduct its Unit Operations laboratories during the summer session. Perhaps, one day the quarter or tri-semester system will be adopted and additional flexibility will be possible.

Finally, the role of mathematics in our course work is greater now. It is hoped that the new mathematic sequence in the first two years will provide a better basis for introduction of our applications in Junior and Senior courses. It is one thing to say an engineer should have knowledge of statistics, advanced calculus, matrices, differential equations, and numerical methods and another to be able to provide the opportunity for him to take these courses. This is again a major problem. Until it is solved Chemical Engineering courses will have considerable applied mathematical analysis. For example, the teaching of thermodynamics is impossible without knowledge of implicit partial differentiation, differential forms, and some numerical analysis. Therefore certain aspects of these subjects are included in the course as a matter of expediency.
3. Facilities

The immediate need of the department is the extension of the steel grating on the second floor of the Chemical Engineering building and the construction of an outside stair well. These improvements should be undertaken as soon as possible as they will offer an increase in laboratory area and an avenue of escape should a fire or accident occur in the building. Presently, there is only one outside exit from the second floor. The department lost a $6,000 industrial contract and fellowship this semester when the contracting agent decided our laboratory space was inadequate. We have asked the Comptroller to transfer from our 1963-64 equipment and supplies funds to the Building and Grounds Department $600 - $700 to help alleviate the safety risk, the space problem, and enhance our opportunity for research contracts.

4. Graduate School

A review of the literature available shows that the growth of graduate education has been phenomenal and the large number of first year NSF traineeships for engineering will probably insure the growth for a long period. At the same time there has been a striking growth in the number of institutions offering the doctorate, together with the strong tendency for advanced graduate students to be concentrated at a few institutions. With our present facilities and staff, enlargement of the graduate program is difficult. The staff members have found that even when design or development projects are academically acceptable the nature of the mission of the granting agency, just as in research, emphasizes certain engineering fields. The staff has also become cognizant of the fact that the projects that generate government financed development often impose parameters that do not afford realistic training for engineering
at a profit in the civilian market place in which we have very success-
fully placed our engineers.

Presently there are one Sc.D. candidate, two M.S. candidates,
and six other individuals taking graduate work in Chemical Engineering.
The addition of two graduate assistantships for the department has greatly
helped our contract research efforts and will materially help in the grad-
uate program.

5. Research

In the many functions in which an engineer may engage, the
research function has been influencing engineering education for a long
time. Yet we must emphasize a closer relationship between the academic
research oriented engineer and the practicing engineer who operates in
the consumer oriented economy.

Chemical engineering has not received federal research support
as a result of the Space Age to the extent that other disciplines have.
This has not been an unmixed disadvantage; there have been no sudden shifts
from shortage to surplus of chemical engineers from changes in governmental
policies. Acquisition of initial research contracts, however, has been
found difficult. Several proposals were submitted. They were not accepted.
Two have gone elsewhere or directly to individuals in more favored
institutions.

Concentrated faculty effort will be required to get research
started out of the main stream of governmental interests in competition
with established research schools. Such an effort is difficult under present
conditions.

Our undergraduate program involves supervised research. Under-
graduate students have assisted materially throughout the year in our
"Academic research" endeavors on the following projects:

1. Concentration and Reduction of Oolithic Iron Ores (NM)
2. Oxidation and Hydrogenation Studies on New Mexico Coals.
3. Demineralization of Brackish Water.
5. Vaporization of Metals.
7. Analysis of Fluid Beds.

In the graduate area research projects carried on by the M.S. candidates include:

1. Heat Transfer
2. Demineralization of Saline Water by Electrodialysis.
3. Parahydrogen to Orthohydrogen Conversion.


Of special interest to the department research program is the demineralization of brackish water, the reduction of Oolithic Iron Ores, and the huge deposits of low-grade coal in New Mexico. Work has been done in these areas and more will be done as facilities become available.

In addition the faculty has engaged in unsupported theoretical research in non newtonian fluids, liquid-vapor and liquid-liquid equilibria. One technical publication has resulted, and others are in preparation.
Nuclear Engineering

I. A. - SIGNIFICANT ACHIEVEMENTS DURING THE ACADEMIC YEAR

1. Enrollment Summary

The enrollment of graduate students in nuclear engineering is showing an increase. This is especially true of full-time graduate students on campus.

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<th>Fall 1963</th>
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<tr>
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<tr>
<td>On campus</td>
<td>5</td>
<td>8</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>Los Alamos</td>
<td>30</td>
<td>20</td>
<td>28</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>38</td>
<td>33</td>
<td>40</td>
<td>29</td>
</tr>
</tbody>
</table>

The decrease in enrollment for the Spring semester is not a significant downward trend. An enrollment drop from Semester I to Semester II is a characteristic feature each year, particularly at Los Alamos.

2. Degrees Granted

Seven M.S. degrees with a nuclear engineering major were awarded at the June 1964 graduation exercises. Two of these degrees were awarded to students from the campus program and five were awarded to Los Alamos students. The number of M.S. degrees awarded to campus students should gradually increase each year reflecting the increase in campus enrollments.

<table>
<thead>
<tr>
<th>M.S. Degrees awarded</th>
<th>1961</th>
<th>1962</th>
<th>1963</th>
<th>1964</th>
</tr>
</thead>
<tbody>
<tr>
<td>On campus</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Los Alamos</td>
<td>1</td>
<td>6</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>6</td>
<td>5</td>
<td>7</td>
</tr>
</tbody>
</table>

The first doctorate degree with a nuclear engineering major should be granted in June 1965.

3. Curriculum

Two new graduate courses were added to the nuclear engineering curriculum this year. Engineering 480, Nuclear Design Analysis, and
Engineering 530, Radiation Shielding. The American Society for Engineering Education recommends that a degree program in nuclear engineering should require integrated design analyses involving the exercise of critical judgment and the development of sound conclusions. Shielding is also of paramount importance in the nuclear field. The addition of these two fundamental courses to the curriculum will greatly improve the breadth of course work available for nuclear engineering majors.

4. Graduate Program

During Semester II the laboratory class, Engineering 194L, conducted three instructional experiments utilizing the Sandia Engineering Reactor on Saturday afternoons under the joint supervision of University and Sandia Corporation personnel. The use of this high-intensity radiation facility for routine laboratory experiments represents an outstanding and unique feature in our graduate program. The people at Sandia Corporation have been most encouraging and cooperative in this effort, and the reactions from the students indicate that these experiments are a very valuable part of the laboratory course. Next year we hope to conduct at least six experiments under this arrangement.

Also in Semester II, Dr. Norris Nocosen, a well-known reactor physicist with the Los Alamos Scientific Laboratory, was hired to teach Reactor Theory, Engineering 214, part-time on campus. Dr. Nocosen commuted to Albuquerque each Saturday, and travel reimbursement was paid by NASA Faculty Augmentation Fund.

5. Facilities

A grant of $35,000 from the Nuclear Education and Training Division of the Atomic Energy Commission was received in May 1964. This money will be used to expand the nuclear engineering laboratory to include a pulsed-neutron source and time-analysing equipment. Pulsed-neutron
techniques represent a powerful tool for measuring reactor parameters and fundamental nuclear properties. The addition of a high-intensity pulsed-neutron generator to the nuclear engineering instructional laboratory will greatly enhance the level of instruction. A peripheral benefit will be realized by graduate students for dissertation research.

6. Research

A research contract for $17,209 for the first year was received from Sandia Corporation in November, 1963, by Dr. Glenn A. Whan, the principal investigator. The proposed work will measure basic thermodynamic and kinetic data for the chemical reactions of metallic beryllium with very high temperature gases. The laboratory for this project is located at Sandia Corporation and all laboratory equipment and facilities are to be furnished by Sandia. This research project will provide two Research Assistantships for nuclear engineering graduate students and is expected to run for at least two years.

A dissertation research project has also been initiated at the Sandia Corporation Reactor Facility. This problem is concerned with the diffusion characteristics of a thermalized neutron pulse. The facilities and equipment are being furnished by Sandia Corporation. It is hoped that this dissertation research project will be just the initial step in a cooperative program between Sandia Corporation and the University utilizing elaborate and costly radiation facilities. Access to these radiation facilities for dissertation research will be an outstanding feature in our nuclear engineering graduate program.

7. Student Activities

During September 3-7, 1963, Kjell Nielsen along with Dr. Glenn A. Whan attended the second annual ANL Faculty-Student Conference at the Argonne National Laboratory. The objective of the conference was to
provide specialized training in several areas to supplement the nuclear
program of the participant universities.

Mr. Nielsen has also accepted an invitation to participate in
the AMU-ANL Summer Engineering Practice School at the Argonne National
Laboratory this summer. This school provides an educational experience
which emphasizes practical application of engineering principles to the
solution of technical problems of current interest at Argonne.

8. Scholarships and Fellowships

In April, 1964, a contract for $74,950 was granted by the Atomic
Energy Commission to the Nuclear Education Committee of the Associated
Rocky Mountain Universities. Funds from this contract are to be used
primarily for Dissertation Fellowships and Faculty Research Grants at AEC
laboratories in the Rocky Mountain region. Under this grant, Jerry
Koelling has received a Summer Research Fellowship at Sandia Corporation.
This AEC grant provides financial support for our cooperative program
with the Los Alamos Scientific Laboratory and Sandia Corporation, and we
hope it will be renewed and increased in the future years.

One Doctoral-Intermediate student in nuclear engineering, Dermot
Kelleher, has received a three-year NASA Traineeship, effective this
September, to support the completion of his doctoral study.

9. Conferences

A national topical meeting on Aerospace Nuclear Safety, sponsored
by the New Mexico Section of the American Nuclear Society, was held at the
University of New Mexico on October 1-4, 1963. The University of New Mexico
was a co-sponsor of the conference. About 450 attendees were present from
throughout the country and abroad. Both the faculty and graduate students
in nuclear engineering participated on a number of the committees for
this outstanding national conference.
A conference on Radiation Effects on Materials and Radiation Biology sponsored by the Associated Rocky Mountain Universities was held at the University of New Mexico on April 22-24, 1964. The principal purpose of the conference was to acquaint university faculty in the Rocky Mountain region with the facilities and research activities at AEC laboratories in Albuquerque and Los Alamos and to acquaint personnel in the AEC laboratories with the research efforts at our various universities. Dr. Glenn A. Whan served as the general chairman. Approximately 150 faculty members and graduate students from the Rocky Mountain area attended, and their response indicated that the conference was an outstanding success.

B. SIGNIFICANT PLANS AND RECOMMENDATIONS FOR THE NEAR FUTURE

1. Faculty and Staff

The addition of an Assistant Professor to the Nuclear Engineering faculty should greatly improve the problem of teaching loads on campus next year. If the graduate program in Nuclear Engineering is going to continue to expand, however, it is essential that this man be encouraged to continue his research as soon as possible. This will again create a teaching load problem on campus. In addition, there are 6 hours of course work being offered at Los Alamos this fall that can not be staffed by campus faculty because of insufficient personnel. For these reasons, it is strongly recommended that a third faculty member, preferably at the Associate Professor level, be added to the Nuclear Engineering staff. As an additional inducement, accreditation of graduate nuclear engineering programs, which appears imminent in the near future, will certainly require at least three full-time faculty members.
2. **Facilities**

Since the University of California is constructing a $2,000,000 research reactor facility, their AGN critical training reactor will be available for transfer to another university some time in 1965. Correspondence with the University of California, the Atomic Energy Commission, and Aerojet General Nucleonics indicates that this $100,000 reactor could be shipped and installed at the University of New Mexico for a total cost of about $10,000. The availability of a small critical reactor on campus for both instruction and research in the nuclear engineering program would represent a tremendous improvement in the campus facilities. It is strongly recommended that the University of New Mexico negotiate with the University of California for the acquisition of this reactor and obtain a firm agreement as soon as possible.

3. **Undergraduate Program**

An undergraduate option in nuclear engineering would remedy two difficulties that are experienced in the present graduate program. First, a small number of students completing the undergraduate option each year would provide a source of students for the M.S. degree program. Second, most of the students entering the graduate program in nuclear engineering are deficient in two or three undergraduate courses. An undergraduate option would adequately prepare the students for graduate work in the field and allow them to complete their masters program in a shorter period of time. However, there are already courses offered in the several university departments that could serve as preparation for graduate work in nuclear engineering. Consequently, students interested in graduate study in nuclear engineering could take these courses as technical electives with the approval of their departmental advisor.
This spring a proposal was submitted to the National Science Foundation requesting instructional equipment to support an interdisciplinary undergraduate engineering course devoted to the application of radioisotopes. Although a grant was not received, this course is still very necessary. Engineers in all fields are making greater use of radioisotope techniques as an important fundamental tool. Additional sources of funds from other Foundations and Agencies will be sought to support this undergraduate engineering course.

4. Graduate Program

The Ford Foundation has announced a grant of $200,000 to the University of Tennessee to bring into science and engineering teaching some of the outstanding personnel of the Oak Ridge National Laboratory. This type of cooperative educational effort between the University of New Mexico and the Los Alamos Scientific Laboratory could greatly strengthen our graduate level teaching in highly specialized areas. Certainly a letter of inquiry should be sent to the Ford Foundation concerning the possibility of a similar grant to the University of New Mexico.
C. FACULTY

The staff at the end of the school year, June, 1964, consisted of T. T. Castonguay, Ph.D., Professor and Chairman; E. D. Oliver, Ph.D., Associate Professor; G. A. Whan, Ph.D., Associate Professor in Nuclear Engineering; and G. D. Bizzell, Ph.D., Assistant Professor.

II. 1. ADVANCED STUDY

G. H. Whan
Professional Engineers License, New Mexico, June 1963.

2. PUBLICATIONS

T. T. Castonguay

E. D. Oliver

3. OTHER RESEARCH PROJECTS

T. T. Castonguay
a. "Explosive Effects H2-O2 Mixtures and CH4-O2 Mixtures."
b. "Beneficiation New Mexico's Oolithic Iron Oxides Ores."
c. "Metallic Coating of Plastics (metal vaporization)."

G. A. Whan

4. ACTIVITIES

T. T. Castonguay
Elected member National Research Committee of A.I.Ch.E.
Director Central New Mexico Section Am. Chem. Society
Active in local and national chapters of ACS, AICHE, ASEE,
Natl. Soc. of Professional Engineers.
Meetings attended:
Annual Meeting AIChE, Houston, Dec. 1-5, 1963
South Texas Section ACS Regional Meeting, Houston, Dec. 6-7, 1963
E. D. Oliver
Scholarship Committee for NSPE
Delegate to UWM 75th Anniversary for AIChE

G. A. Whan
American Nuclear Society
Chairman, Local Student Guidance Committee; Member, National Membership Committee; Executive Committee Member, National Topical Meeting on Aerospace Nuclear Safety, sponsored by New Mexico Section, UWM, Oct. 1-4, 1963; Member, Nuclear Education Committee; Meetings Attended: ABC-AMH Cooperative Meeting, Idaho Falls, June 12-14, 1963; Nuclear Education Committee Meeting, Boulder, Colorado, Dec. 20-21, 1963; Nuclear Education Committee Meeting, Reno, Nevada, Feb. 27-29, 1964;

5. OTHER PROFESSIONAL ACTIVITIES

T. T. Castonguay
Career Day & Guidance Seminar Jr. & Sr. High Schools, Mar 1964
Industrial consulting: NOTS and Shock Tube Facility (Air Force)
Dept. Field Trip - Dumas, Borger, Pampa Area, April 1-4, 1964.

E. D. Oliver
Technical investigation for court case

G. A. Whan
Summer Employee, Reactor Dept. Sandia Corp., June-Sept. 1963
Engr. Consultant for Sandia Corporation
Engr. Consultant for Stearns-Roger Corp.

6. NON-TEACHING UNIVERSITY SERVICE

T. T. Castonguay
College: Engr. Adm. Committee; Engr. Doctorate Committee;
Freshman and Departmental Advisor

E. D. Oliver
Safety and Civil Defense Committee; Entrance & Credits Committee;
Advisor to AIChE Student Chapter; Advisor to Engr. Science of Mat'l's, program at Los Alamos.

G. A. Whan
Director Los Alamos Graduate Center; Head of the Graduate Nuclear Engineering Program; Member of Graduate Committee (ex-officio);
Member Engr. Scheduling Committee; Member Engr. Library Committee.
G. D. Bizzell
Ad hoc Committee to study introduction of computers courses into Engr. program. Student Affairs and Awards Committee in Engineering.

7. PUBLIC SERVICE

T. T. Castonguay
Aquinas Newman Center; Newman Forum, etc.

E. D. Oliver
Director, Co-chairman of Conservation Committee, and delegate to Los Angeles meeting for Sierra Club; Volunteer service on Sandia Peak Ski Patrol and water safety training for Albuquerque White Water Club; Host to visit of Explorer Scouts.
I. GENERAL DEPARTMENTAL INFORMATION.

A. Significant Achievements During the Academic Year, 1963-64.

1. Enrollment Summary.

The overall enrollment shows an increase over the previous reporting year. Of the number of graduate students enrolled, thirteen are enrolled in the doctor of science program. The number of undergraduate and graduate degrees awarded during the reporting year decreased.

1962-63 Academic Year

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<th>Sem. II</th>
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<tr>
<td>Juniors</td>
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<td>Seniors</td>
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<tr>
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<td>Total</td>
<td>113</td>
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1963-64 Academic Year

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<table>
<thead>
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</thead>
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<tr>
<td>Sophomores</td>
<td>25</td>
<td>31</td>
</tr>
<tr>
<td>Juniors</td>
<td>29</td>
<td>27</td>
</tr>
<tr>
<td>Seniors</td>
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<td>21</td>
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<tr>
<td>Graduate Students</td>
<td>43</td>
<td>45</td>
</tr>
<tr>
<td>Total</td>
<td>118</td>
<td>124</td>
</tr>
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</table>
2. **Degrees Granted.**

B. S. August 1963  -  1  
B. S. February 1964  -  3  
B. S. June 1964  -  10  
M. S. June 1964  -  7

3. **Curriculum Changes.**

In the undergraduate program two changes were made in Engineering Graphics. The first course in graphics was changed to Descriptive Geometry and the second course was made into a computer and problem course. The change was made to introduce the students to more engineering concepts in their freshman year. A change which added a computations laboratory to Engineering Mechanics has proven to be very helpful to the students.

In the graduate program, several new courses were initiated. In the Soil Mechanics area, courses in the Dynamics of Foundations and Wave Propagation in soils were added. A new course in Water Resources Planning was also taught for the first time. A new course in Structural Dynamics was added to supplement the present course in that field. The graduate program in Civil Engineering is growing.
4. **Laboratory Equipment.**

The following major pieces of equipment were purchased during the reporting period:

- 2 - Overhead Projectors @ 169.50 $339.00
- 1 - Portable Strain Indicator 630.00
- 1 - Portable Reaction Timer 97.50
- 1 - Thermofax Copy Machine 279.00
- 1 - 18 drawer cabinet 30.50
- 1 - Dymo Tapewriter Model M55 29.95
- 2 - Level Roads @ 40.05 80.10
- 2 - "Radiant" Lenticular Portable Screens @ 73.06 146.12

5. **Rental Funds.**

The Civil Engineering Department collected $2,710.80 rental fees from the rental of surveying equipment. Surveying equipment is rented when not being used for instructional purposes during the school year and during the summer months. Some of the major purchases made from this account are as follows:

- 1 pair tubelite doors $959.00
- 1 - Executive Desk 157.50
- 1 - Oak table 40.35
- 1 - Chair 77.25
- 1 - 6' x 8' Wall Mounted Beaded Screen 67.95
- Draperies for classroom 170.00

In addition to the foregoing purchases one of the Civil Engineering lecture rooms, CE 235, was remodeled at a cost of $281.65.
The Graphics Section of the Civil Engineering Department collected $259.25 from the rental of drawing equipment to students. The following major purchases were made from this account:

1. LeRoy Lettering Device $69.98
2. Portable Blackboard 21.00
3. Portable Screen 42.08
4. Wall Blackboard 50.00

6. Student Activity.

Professor B. J. Donham accompanied the senior civil engineering students on an inspection trip to Mexico City April 16 to 26, 1964.

7. Student Achievements.

Following is a list of honors received by Civil Engineering students:

Farook Chandiwala - ASTM Student Award
Frank Bosiljevac - ASTM Student Award
Randall Wooley - Chi Epsilon Outstanding Sophomore Award
Randall Wooley - Phi Kappa Phi Sophomore Award
Thomas Abbott - Chi Epsilon Honorary Fraternity
Vernon Norman - ASCE Award
James Baker - NMSPE Wives Award

8. Scholarships and Fellowships.

Awards in the amount of $500.00 were made by Rust Tractor Company to each of the following students:
9. Conferences.

On December 5 and 6, 1963 the Civil Engineering Department in association with The Asphalt Institute, the Portland Cement Association, and the New Mexico Highway Department sponsored the Second Paving Conference.

The theme of this conference was "Rigid Pavement Design and Construction". Speakers were invited from industry and various universities. There were approximately 200 engineers and technical people in attendance. The program committee consisted of Professors Louis J. Thompson and Jose E. Martinez and an Advisory Panel made up of representatives from associated agencies.


1. Undergraduate Program.

Plans are being made to replace some of the present laboratory classes with a series of Civil Engineering laboratory classes that will integrate the various fields of Civil Engineering into a more reasonable combination of courses. One of these courses will be introduced into
the freshman program so that freshman students will be exposed to some engineering procedures and concepts in their first year of school.

2. **Graduate Program.**

The Civil Engineering Department is striving to form a close working relationship with Sandia Corporation, Kirtland Air Force Base, and the State Highway Department in order to increase the level of research effort in Civil Engineering. Increased sponsored research will enable the Civil Engineering Department to build a stronger graduate program.

Two professors from the department have been on part-time research at the Shock Tube Laboratory during the past year and it is hoped that this cooperative effort can be increased in the future.

A proposal is presently being prepared for a Summer Institute in 1965 in the field of Structural Reliability and Vibrations. Dr. Freudenthal from Columbia and Dr. Crandall from MIT have agreed to teach in this institute if it is funded by NSF. This program will be a real help to our present graduate program in the area of engineering structures. The Summer Institute in the summer of 1963 has already been helpful in building up our graduate student enrollment in Civil Engineering.
3. **Library Needs for the Research Program.**

Library facilities in soil mechanics and structural mechanics have been somewhat improved during the past year. However, the library is still extremely inadequate for a vigorous research and D.Sc. program.

In the areas of Engineering Materials, Highways, Traffic Engineering, and Water Resources the holdings are inadequate for even an undergraduate program.

The $1200 allotted to Civil Engineering is far too low for building up a good library facility in this field. In addition to more money, professional staff bibliographers are needed in the library to help build up good holdings in the field of Science and Engineering.

<table>
<thead>
<tr>
<th>Sponsor</th>
<th>Title</th>
<th>Length of Time</th>
<th>Amount</th>
<th>Director</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSF</td>
<td>Summer Institute in Soil Mechanics and Structures</td>
<td>6/63 - 8/63</td>
<td>$52,000</td>
<td>J. R. Barton</td>
</tr>
<tr>
<td>NSF</td>
<td>Undergraduate Research Program in Civil Engineering</td>
<td>6/64 - 6/65</td>
<td>$9,100</td>
<td>J. R. Barton</td>
</tr>
<tr>
<td>NSF</td>
<td>Engineering and Economic Study of Industrial Waste</td>
<td>2/64 - 2/65</td>
<td>$28,000</td>
<td>Nathaniel Wollman</td>
</tr>
<tr>
<td>NSF</td>
<td>Fracture Phenomena of Metals Under Low Cycle Loading</td>
<td>9/63 to 8/64</td>
<td>$9770.00</td>
<td>J. T. P. Yao</td>
</tr>
<tr>
<td>New Mexico Highway Dept.</td>
<td>Culvert Pressure</td>
<td>3/63 - 9/64</td>
<td>$28,000</td>
<td>L. J. Thompson</td>
</tr>
<tr>
<td>New Mexico Highway Dept.</td>
<td>Bituminous Pavement Studies</td>
<td>2/64 to 2/65</td>
<td>$20,000</td>
<td>J. E. Martinez</td>
</tr>
</tbody>
</table>
C. **Appointments.**

Dr. Edward Rhomberg - Assistant Professor

effective September 1963.

D. **Separations from Staff.**

1. Louis J. Thompson - Assistant Professor - Leave of Absence effective June 1964.

2. J. T. P. Yao - Assistant Professor - Leave of Absence effective June 1964.

II. FACULTY BIOGRAPHICAL INFORMATION.

1. Advanced Study.


DONHAM, BOB J. - Six hours of graduate study in preparation for Ph.D. study.

HUZARSKI, RICHARD G. - A complex study of the use of computers in engineering practice.

MARTINEZ, JOSE E. - Six semester hours of graduate work completed at UNM, Summer Session 1963.

RHEMBERG, EDWARD J. - Registered Professional Engineer in New Mexico.

THOMPSON, LOUIS J. - Completed 6 hours of graduate mathematics at the University of New Mexico.

YOUNKIN, LARRY M. - Completed 6 hours of work in Civil Engineering at UNM. Qualified instructor in Fallout Shelter Analysis by attending protective construction institute at University of Colorado, Summer 1964.

VAUGHAN, RICHARD G. - Completed 4-1/2 additional units (18 hours) toward PhD degree at the U. of Illinois. Completed French language requirement and preliminary exam for the degree. Working on dissertation at the AF Shock Tube Facility.
2. Sabbaticals, Leaves of Absence, Summer Teaching etc.

DONHAM, BOB J. - Faculty sponsor for senior trip to Mexico City.

THOMPSON, LOUIS J. -


May 1964 - U. S. Naval Test Range - China Lake, Inyokern, Calif.

VAUGHAN, RICHARD G. - Leave of absence for PhD study.
3. **Scholastic Honors and Fellowships.**

THOMPSON, LOUIS J. - National Science Foundation Science Faculty Fellowship for 18 months, beginning September 1964, University of Virginia.


4. **Publications.**


MARTINEZ, JOSE E. - Proceedings - Second Paving Conference, University of New Mexico, May 1964.

THOMPSON, LOUIS J. - "Optimum Unit Weight and Moisture Content for New Mexico Clay Subgrades" 56 pages, 10th New Mexico Highway Engineering Conference Proceedings, New Mexico State University, April 10, 1964.

5. Research Projects or Creative Work.


COTTRELL, MARION M. - UNM research grant for study of non-linear theory of plates, $500.

DONHAM, Bob J. - Research Project, New Mexico Highway Department, $20,000, "Bituminous Pavement Studies", one year.
GAFFORD, WILLIAM R. - June 1, 1963 to August 15, 1963:
Research Associate Engineer, Air Force Shock Tube Facility, Sandia Base

HUZARSKI, RICHARD G. - A study of and translations of Russian Research.

MARTINEZ, JOSE E. - Research Project, New Mexico Highway Department, $20,000, "Bituminous Pavement Studies", one year.

RHOMEBERG, EDWARD J. - "Dynamic Load Response of Continuous Reinforced Concrete Slabs" in progress at the Eric Wang Shock Tube Facility

THOMPSON, LOUIS J. - New Mexico Highway Dept., $28,000 Culvert Pressure, 18 months. Sandia Corporation, $28,000, Earth Resistance to Projectile Impact, 10 months, NSF Undergraduate Research, Swell and Collapse of Desert Silt.


VAUGHAN, RICHARD G. - Engaged in a project to evaluate the response of buried vertical cylinders to static and dynamic plane wave loadings. Research is part of Work Order 3.2 at the AF Shock Tube Facility.

ZWOYER, EUGENE - Operation of the Air Force Shock Tube Facility conducting research in fields of soil dynamics, structural dynamics, soil-structure interaction, and gas dynamics; contract sponsored by USAF Systems Command; present contract in amount of $1,362,947 expires March 1, 1965, and will be re-negotiated at that time for an additional two years.

6. Activities in Learned and Professional Societies.

COTTRELL, MARION M. - ASCE representative to Albuquerque Building Code Committee which is rewriting the City Building Code, which will be presented for adoption as a city ordinance sometime this year.

DONHAM, BOB J. - Attended AISC meeting in Omaha.
GAFFORD, WILLIAM R. - Member, American Society for Engineering Education. Associate Member, American Institute of Architects.

HUZARSKI, RICHARD G. - ASEE, Committee for Constitutional Revisions (Southwest Section).

MARTINEZ, JOSE E. - Vice-Chairman, New Mexico Board of Registration for Professional Engineers and Land Surveyors, 1963-64. Attended Western Zone, NCSBEE meeting, Denver, Colorado, April 17-18, 1964 as delegate from New Mexico. Attended Assoc. of Asphalt Paving Technologists, National meeting, Dallas, Feb. 17-19, 1964.

MAY, MARVIN CLARK - Appointed fellow in the American Society of Civil Engineers. Accepted as Assoc. Member by the Institute of Traffic Engineers.

YAO, JAMES T. P. - Review panel for NSF Graduate Traineeships in Engineering, Washington, D. C.

YOUNKIN, LARRY M. - attended several local ASCE meetings.

VAUGHAN, RICHARD G. - Chairman of Albuquerque Engineers Week Committee for the Albuquerque Chapter of NMSPE.


7. Other Professional Activities.

BARTON, JAMES R. - Consultant to Bill Matotan on flood control problems on Hahn Arroyo in Albuquerque.

COTTRELL, MARION M. - Consultant to New Mexico State Board of Examiners for Architects, composed structural portion of examination for April 1964.

HUZARSKI, RICHARD G. - 4 TV appearances, 3 consultancies (with lawyers, engineers, scholars). Organized a week long Peace Corps Engineering Studies (conducted by others). Delivered about 60 lectures to Peace Corps trainees.

MAY, MARVIN CLARK - Responsible for alignment of the sled track at the Shock Test Facility, Sandia Base.

THOMPSON, LOUIS J. - Consultant to Sandia Corp. on Earth Penetration of Projectiles. Consultant to Highland South Land Development Corp., Big Spring, Texas.

YOUNKIN, LARRY M. - Taught two courses in Fallout Shelter Analysis to practicing Architects and Engineers in Albuquerque.
Structural engineering design of several facilities including the terminal building for the Albuquerque Sunport and the seventeen story Park Plaza Apartment Building.

8. **Non-teaching University Service.**

**BARTON, JAMES R.** - Faculty adviser to Student Chapter of ASCE, Member Univ. Policy Committee and chairman of sub-committee on Univ. Standing Committees, Chairman of Allocations Committee of Greater UNM Fund. Director Natural Resources Research Center, UNM.

**COTTRELL, MARION M.** - Chi Epsilon Advisor, Chairman, U. Library Committee. Member, Engineering Doctoral Committee. Graduate Student Adviser.

**DONHAM, BOB J.** - Committee member of Scholarships and Awards.

**GAFFORD, WILLIAM R.** - Special Adviser, University College. Acting Chairman, New Mexico Union Board. Chairman Freshman Advisory Committee, College of Engineering. Chairman, Schedule Committee, Engineering College. Member University Registration Committee.

**HUZARSKI, RICHARD G.** - Athletic Council, Freshman Advisory Committee, Peace Corps.
MARTINEZ, JOSE E. - Schedule Committee, Engineering College. Graduate Student Adviser.

MAY, MARVIN CLARK - Freshman Advisory Committee, Master Plan Committee, Managed Survey Rental Fund, Technical assistance to administration on planning matters.

RHOMBERG, EDWARD J. - Advisor to Junior students in Civil Engineering.

THOMPSON, LOUIS J. - Member of Library Committee

YAO, JAMES T. P. - Chairman, Engineering College Library Committee.

YOUNKIN, LARRY M. - Member Freshman Advisory Committee.


COTTRELL, MARION M. - Lay leader, Church School Teacher, Christ Methodist Church.

DONHAM, BOB J. - Member of the Official Board of the Methodist Church.


MAY, MARVIN CLARK - Lay-reader Canterbury Chapel at UNM, Elected Vice-President of the Board of Directors of the Metropolitan Flood Control Authority. Vice-President of the Citizens Transportation Committee.

THOMPSON, LOUIS J. - University Church of Christ Boy Scouts Troop Committee.

I. GENERAL DEPARTMENTAL INFORMATION

A. Significant Achievements During the Academic Year, 1963-64

a. Enrollment Summaries

Undergraduate

<table>
<thead>
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<th>Semester</th>
<th>62-63</th>
<th>63-64</th>
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<td>77</td>
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<tr>
<td>Jr.</td>
<td>64</td>
<td>97</td>
</tr>
<tr>
<td>Sr.</td>
<td>56</td>
<td>45</td>
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<tr>
<td>Totals</td>
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<td>219</td>
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</tbody>
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Graduate

<table>
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<tr>
<th>Semester</th>
<th>62-63</th>
<th>63-64</th>
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<tbody>
<tr>
<td>M.S.</td>
<td>146</td>
<td>133</td>
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<tr>
<td>ScD</td>
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<td>Off Campus</td>
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Degrees Awarded

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</table>

While the undergraduate enrollment statistics are difficult to interpret because of the difficulties in classifying students the overall undergraduate enrollment has definitely risen by at least 5%. The number of undergraduate degrees has stayed relatively constant for the past four years, approximately 40 students, but next year should see a sharp increase of almost 80% in this figure. This would be accounted for, to a large extent by the presence of some 20 Navy personnel
THE REPORT OF THE DEPARTMENT OF ELECTRICAL ENGINEERING
July 1, 1963 - June 30, 1964
A. H. Koschmann, Chairman

I. GENERAL DEPARTMENTAL INFORMATION

A. Significant Achievements During the Academic Year, 1963-64

a. Enrollment Summaries

Undergraduate

<table>
<thead>
<tr>
<th>Semester</th>
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While the undergraduate enrollment statistics are difficult to interpret because of the difficulties in classifying students the overall undergraduate enrollment has definitely risen by at least 5%. The number of undergraduate degrees has stayed relatively constant for the past four years, approximately 40 students, but next year should see a sharp increase of almost 80% in this figure. This would be accounted for, to a large extent by the presence of some 20 Navy personnel
completing the NESEP-A Program.

The graduate enrollment has remained relatively constant, the slight decrease probably being attributable to a slight reduction in graduate course offerings this past year because of staffing problems. The sharp increase in the number of M. S. degrees awarded should be interpreted more as random fluctuation than any significant increase in the Master's Program. During this past year the number of doctoral students has remained relatively constant.

b. Progress in the Undergraduate Program

Changes in the undergraduate courses and curriculum have not been extensive. A change has been made in the requirement for senior seminar. In the past, the students have taken a 1 hour seminar devoted principally to oral and written reports in recent engineering developments and 1 credit emphasizing engineering design. Next year this has been modified to a two hour course, one hour of lecture and three hours of lab, principally devoted to engineering design. This slight increase in engineering emphasis is in line with current opinion of many engineering educators and industrial people who feel that, while the basic engineering science background of the students has been improved considerably over the past years, the concepts of engineering design involving economics, people, and the like have been neglected.

An additional change has been made in our sophomore courses where the laboratories associated with EE 55 and EE 56 have been deleted and a single 1 hour laboratory course has been instituted. This laboratory will be closely coordinated with our EE 117 lab to give a two semester sequence devoted
specifically to the development of the concepts of measurements and laboratory techniques.

During Semester II, EE 190L, Solid State Laboratory, was taught for the first time under Professor Southward. This laboratory was made possible by equipment included in the $50,000 equipment grant from National Science Foundation and the University. Overall, the equipment received during the past two years has resulted in a significant improvement in the laboratory courses of this department. This still represents only a beginning, however, and if our laboratories are to continue to have adequate equipment a similar grant will be required in the next couple years. In particular, equipment will be needed to fit the requirements in the reorganization of our basic sophomore and junior laboratory sequence.

C. Progress in the Graduate Program

A number of changes have been made in our graduate course offerings. These have been in the areas of reorganizing basic courses to better serve the needs of the student rather than introducing new fields of study. As these changes will be made at the same time a complete change is made in the course numbering system the changes are not readily detected by a simple comparison of this year's and the next year's catalogs.

In the general area of circuit theory two basic courses, EE 203, Transients, and EE 214, Network Analysis have been deleted and replaced by the course, EE 511, Principles of Network Theory, which is a more integrated treatment of linear systems. An advanced course, EE 612, Advanced Transient Analysis has been added to cover types of linear systems such
as the distributed systems and sampled data systems.

In line with the continually increasing emphasis in electromagnetic waves in Electrical Engineering, an additional semester has been added to our present EE 205 to give EE 561 and EE 562, Electromagnetic Waves I and II.

During this past year considerable attention has been devoted to procedures in our doctoral program. The very large number of part time people presumably studying for the doctorate raises a number of disturbing problems. It is felt that when the student stretches his studies out over a long period of time, the probability of his completion is considerably reduced; the reasons for this are many and varied. While many of the students will not complete their degrees and therefore not require dissertation advisement by the faculty, if any large portion would happen to decide to pursue their studies full time, the faculty would have a difficult time handling this large number. This has not been a problem in the past and would not be a problem in the immediate future. However, to alleviate these problems, certain regulations have been instituted by this department with the approval of the graduate school which are intended to speed up the student's progress on his degree if he is seriously interested or to drop out of the doctoral program if he is not.

Particularly with the addition of the National Science Foundation Engineering Traineeships the number of full time students in this department should significantly increase in the next few years.

Generally, this type of student is very desirable in stabilizing the graduate student body in the department;
however, the presence of a fairly large number of students who have their own support will pose a problem with respect to their theses and dissertation work. In the past most students doing research with this department have done so in connection with supported research contracts and equipment, space, and supplies were paid for by that contract. At the present time this department has a small amount of research equipment belonging to the department, essentially no funds to purchase research equipment, and almost no office or laboratory space for these students.

d. **Physical Plant**

Again, during this year, facilities and equipment for the educational laboratories have continued to improve with the remainder of the assistance of the grant from the National Science Foundation and the University.

Because of the extreme crowding of the electronics laboratory an adjacent classroom, EE 220 was assigned as a laboratory space beginning Semester IX and was used principally for our traveling waves laboratory this past semester. This room has been adequately wired; necessary benches and storage equipment will be installed this next year. The additional space in Science Hall and Engineering Annex acquired by the Engineering College this year has aided this department considerably in reducing the crowding of research facilities and offices for faculty and research personnel. This should provide adequate space for about one more year at which time the pressures for
space will again begin to develop.

e. Student Achievements

The Student Branch this year was very active under very capable leadership. Their activities included a tour of Boulder Dam, an all-department picnic, and the sponsoring of talks and movies at their meetings. The Student Branch again held their annual student paper contest at a meeting co-sponsored by the local section of the IEEE. This year, the students not only participated in the Engineering Open House but the Electrical Engineering was awarded first prize for their displays.

The following individual awards and scholarships were received by students in Electrical Engineering.

1. David D. Coyer, H. L. Dougherty Award, Outstanding Sophomore
2. David D. Coyer, Western Electronics Scholarship
3. Marvin R. Byrd, Western Electronics Scholarship
4. David H. Toy, Neely Scholarship
5. Charles P. Harman, Neely Scholarship
6. Terry Anna, Bresenham Award
7. Andres Salazar, New Mexico Professional Engineering Wives Award
8. Milo Navratil, Quality Control Scholarship

B. Significant Plans and Recommendations for the Near Future

a. Faculty and Personnel

The matter of excessive work load in this department was discussed in last year's report; in view of the changes in policy for research time to go into affect next year, further discussion will be postponed until the affects of this new policy can be observed.

However, in line with my experiences in recruiting
new staff this year and many formal and informal
commends heard at the recent Conference of the
American Society of Engineering Education, it would
seem appropriate to again point out the problem
associated with teaching load for beginning staff
members. It is almost universally agreed that if
the beginning teacher is to have an opportunity to
adequately prepare material for courses which are all
new to him and at the same time develop his research
interests, that the regular 12 hour teaching load is
unreasonable. Considering the extremely pointed
questions from many applicants concerning the teaching
load and the fairly unsympathetic reply which our
present teaching load policies dictate, I am convinced that
a number of potential applicants were lost for this
point alone, and this is especially true for the
outstanding young Ph.D's who are able to get more
sympathetic treatment from many good universities.

With the authorization of two additional staff
members for next year, plus the one position not filled
this year, a full complement of 16 professorial staff
would definitely be an improvement in our staffing
compared to previous years. Unfortunately the
recruiting of staff has been remarkably unsuccessful
so far and it may be necessary to use several
additional instructors to temporarily fill these
positions. While this would adequately cover our
undergraduate teaching needs, it would leave the
department hard pressed in the areas of graduate
work and general administrative responsibilities.
b. **Facilities**

   The facilities and equipment in this department have improved significantly this past year, but still have a considerable ways to go before we can consider this part of our program to have an adequacy comparable to our faculty.

   The authorization to use Room 220 as a laboratory space has done much to relieve the pressures of scheduling on our undergraduate laboratory spaces. It is hoped that as soon as possible two or three additional rooms can be constructed from the space in the present Power Laboratory. One of these rooms would be used as a repair and calibration laboratory, another room as an analog computer laboratory and a third, if possible, as a solid state laboratory.

   As was alluded to earlier, one problem which will increase sharply in the near future is the need for facilities for graduate students, not supported by research contract funds. At the present time we have neither the space nor the equipment to adequately serve these students.

   These graduate student research facilities could be developed if a significant portion of the money given to the University for the support of these students by agencies such as NASA and NSF would be made available directly to the departments for the development of such facilities.

   c. **Research**

   With the addition of the research space in the Engineering Annex acquired last fall, the current requirements for space for research activities has
been met. This space will probably be adequate for this coming year, at least to cover space needed by supported research contracts. However, unless additional major space is made available within two or three years we will again be faced with a serious shortage of space.

One major addition to the research facilities of this department has been the antenna array now positioned on the roof of the Electrical Engineering building. The major part of the equipment was given to us by the Air Force and the installation of this equipment was made possible by a grant from the University Research Committee to Professor Thorn. One of the most significant features of this facility is that it belongs to the University and not some contracting agency who might at some time wish to remove the equipment. While it is intended that some support for research using this facility will be obtained, the facility is readily available to students and faculty who have no such support. Without this type of freely usable activity our areas of research and the areas for students' theses and dissertations are disturbingly restricted by the specific supported research contracts we have at any one time.
C. **Appointments to Staff**

**Professorsial Staff**

Dr. L. T. Boatwright, Visiting Assistant Professor, effective 15 September 1963

Dr. Martin D. Bradshaw, Assistant Professor, effective 15 September 1963

Dr. Harold D. Southward, Associate Professor, effective 15 September 1963

**Part-time and Temporary**

Mr. Nasir Ahmed, Instructor, both semesters

Mr. Anjiah Athelli, Graduate Assistant, both semesters

Mr. Richard Bechtel, Teaching Associate, Sem. II

Dr. Arthur Breipohl, Instructor, Sem. II

Mr. Thurlow W. H. Caffey, Instructor, Sem. I

Mr. Wu-show Chou, Graduate Assistant, both semesters

Dr. Howard Demuth, Lecturer, part-time, Sem. II

Mr. In Ku Kang, Graduate Assistant, both semesters

Mr. Young Duck Kwon, Graduate Assistant, both semesters

Mr. Donald Lenthert, Teaching Associate, Sem. II

Mr. Ronald Mohler, Lecturer, part-time, Sem. I

Mr. K. R. Rao, Instructor, both semesters

Mr. Dale Sparks, Lecturer, part-time, both semesters

Mr. Calvin Thomas, Teaching Associate, Sem. I

Mr. W. R. Thompson, Teaching Associate, Sem. II

Mr. Thomas Tillotson, Graduate Assistant, both semesters

Mr. Hugh D. Wade, Teaching Associate, Sem. II

Mr. Thomas Wang, Graduate Assistant, both semesters
D. Separations from Staff

Dr. S. N. Das, Associate Professor, effective 30 June 1963.

II. COMPOSITE OF INFORMATION ON INDIVIDUAL BIOGRAPHICAL SUPPLEMENTS

1. Advanced Study - None

2. Sabbaticals, leaves of absence, summer teaching, etc.

NOTE: Travel to attend various meetings is indicated under professional activities and activities in learned and professional societies. In addition, many members of the faculty engaging in research contracts have made various trips within the United States in connection with these contracts.

3. New Scholastic Honors, Fellowships, etc.

K. R. Rao, Instructor

National Science Foundation Grant, "Advanced Science Seminar in use of Computers in Engineering Education," University of Houston, Houston, Texas, June 10 - August 2, 1963

4. Publications

Engineering Experiment Station Technical Reports


Publications (continued)


GIBSON, A. H. GARRY, "Electrical Fields from Airborne Vertical and Horizontal Dipoles at Very-Low Frequencies," Report No. EE-105, April 1964


LeBLANC, ANDRE and GRANNEMANN, W. W., "Thermionic Generator for Re-entry Vehicles," Report No. EE-90

LEEMAN, J. E., and KOEPSEL, W. W., "Final Report of Experimental Study to Determine the Mean Time for the Output of an R.C Network to Reach a Threshold When Charged by a Random Input," Report No. EE-93


Publications (continued)

THORN, DONALD C., LEEMAN, JAMES E., "Reflection and Refraction in a Non-Turbulent Atmosphere With Moving Interfaces," Report No. EE-101 January 1964


Engineering Experiment Station Progress Reports


BEBETTEL, RICHARD and GRANNEMANN, W. W., "Magnetoresistance and Superconductivity for Application to DC to AC Conversion," Report No. PR-49 December 1963
Engineering Experiment Station Progress Reports (cont.)


Other Reports

ERTEZA, AHMED, "Kerr-cell Measuring System for High Voltage Pulses' Review of Scientific Instruments, Institute of Physics

ERTEZA, AHMED, "Discrimination Dependence of a Phoswitch System on the Integrating Time Constant" Nuclear Instruments and Methods, Netherlands

ERTEZA, AHMED, "The Concept of Differential Cross Section As Applicable to the Reflection Of Beamwidth Limited Illumination by Convex Bodies"


SOUTHWARD, HAROLD, "Laboratory Testing and Theoretical Studies Supporting the AFWSC Transient Radiation Effects on Electronics Program," AF Con. #AF 29 (601) 5976

SOUTHWARD, HAROLD, "Measurement of Continuous X-ray Spectra Using an Absorption Method", TUR 64-63, on Contract AF 29(601) 5976

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

See succeeding pages.
<table>
<thead>
<tr>
<th>Research Contract</th>
<th>Project Supervisor</th>
<th>Contracting Agency</th>
<th>Title of Project</th>
<th>Amount</th>
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<tr>
<td>290-344</td>
<td>Koschmann (Thorn)</td>
<td>Holloman AFB</td>
<td>VMS Study Evaluation and Board-Card Experiments</td>
<td>$18,932.00</td>
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<td>290-353</td>
<td>Grannemann</td>
<td>National Aeronautics and Space Admin.</td>
<td>Hall Effect for Low Voltage High Current DC to AC Conversion</td>
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<td>290-393</td>
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<td>Kirtland AFB</td>
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<td>290-409</td>
<td>Williams</td>
<td>Sandia Corp.</td>
<td>Determine the Current Distribution, Driving Point Impedance and Radiated Fields of a Short Vertical Monopole Driven With Respect to a Small Disc</td>
<td>11,000.00</td>
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<td>290-412</td>
<td>Koschmann</td>
<td>Sandia Corp.</td>
<td>A Study of Adaptive Systems Using a Communication Theory Model of Self-Evaluation</td>
<td>10,950.00</td>
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<td>290-415</td>
<td>Grannemann</td>
<td>Sandia Corp.</td>
<td>Determine the Feasibility and Limitations of Analysis in Predicting the Transient Response Caused by Gamma Radiation Exposure</td>
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<td>275-15</td>
<td>Koschmann</td>
<td>National Science Foundation</td>
<td>Development of Kit-Style Digital Computers for Construction and Use by the Students at the High School Level.</td>
<td>$17,650.00</td>
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<td>275-28</td>
<td>Kelly</td>
<td>National Science Foundation</td>
<td>Undergraduate Instructional Scientific Equipment Progress</td>
<td>24,070.00</td>
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<td>290-213</td>
<td>Williams</td>
<td>Navy</td>
<td>Submarine Communications by Electromagnetic Means</td>
<td>149,663.80</td>
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<td>290-306</td>
<td>Erteza</td>
<td>National Aeronautics and Space Admin.</td>
<td>Investigation of Radar Echoes from the Moon and Planets using Methods and Data from Earth Radar-Return Studies</td>
<td>30,989.58</td>
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<td>290-332</td>
<td>Lenhert</td>
<td>Navy</td>
<td>Acoustic Simulation Study</td>
<td>18,969.43</td>
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<td>290-333</td>
<td>Grannemann</td>
<td>Sandia Corp.</td>
<td>Proposal for a Theoretical Study on the Thermionic Emission from a Solid in a High Temperature Gas Stream</td>
<td>10,000.00</td>
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<td>290-342</td>
<td>Koschmann</td>
<td>Sandia Corp.</td>
<td>The Mean Time of a Network Output to Reach a Threshold for a Random Input.</td>
<td>1,000.45</td>
</tr>
</tbody>
</table>
6. Activities in Learned and Professional Societies

BRADSHAW, MARTIN D.

Membership in IEEE upgraded from student member to member

Byatt, William J.

Attended Summer Meeting, IEEE, Toronto, Canada and participated in the ARWU Meeting, April, 1964. Paper read on Monte-Carlo code for radiation

GRANNEMANN, W. W.

Secretary of the Sigma XI, Vice President of the Sigma XI Institutional Representative to Engineering College Research Council of the American Society for Engineering Education.

KAMO, Shlomo

Member, IEEE Executive Committee, Albuquerque Branch

KOSCHMANN, Arnold H.

Attended ASEE Convention, University of Pennsylvania, June 1963; Member, Ad Hoc Committee on Graduate Education in Electrical Engineering

LAMBERT, Joseph S.

Attended a course in Electromagnetic Measurements and Standards at the National Bureau of Standards, Boulder Colorado, July 22, 1963 to August 10, 1963 and there also attended a VLF Symposium August 12 to August 14, 1963

SOUTHWARD, Harold D.

7. Other Professional Activities

BOATWRIGHT, Lewellyn Jr.

Registered as a professional engineer, State of Ohio

BYATT, William J.

Consultancy with Sandia on Radiation Transport

KARNI, Shlomo

Editorial Reviewer for IEEE-PTGCT

KELLY, Rubin

Consulting practice in Electrical Engineering. Engaged with Dr. Thorn in developing a patentable instantaneous torque meter. U. S. Navy is attempting to patent a conductivity measuring device listing Dr. Williams and I as co-inventors. Designed and constructed a liquid three-layer model used in studying subterranean and under-sea communication

KOSCHMANN, Arnold H.

Member, Electronics Advisory Board, Albuquerque Industrial Aids Service
Member, Executive Committee
Judge, State Science Fair, Socorro, April 1964

LAMBERT, Joseph S.

As a member of the Governor's Scientific Advisory Committee assisted in the preparation and presentation of a proposal to the
LAMBERT, JOSEPH S. (con't)

National Aeronautics and Space Administration in Washington D.C. on Oct. 16, 1963 to bring the Free World Spaceport to White Sands, New Mexico. Worked with the Governor's Scientific Advisor on the feasibility of establishing a Materials Research Institute in New Mexico. As a member of a University Committee (under the Chairmanship of the late Dr. Parish) assisted in the preparation of a proposal to NASA to establish an Information Retrieval Center at UMM.

SOUTHWARD, HAROLD D.

Patent disclosure: Socony Mobil Oil Co. Inc. on use of high intensity coherent light for isotope sensitive chemical reactions, June, 1963.

THEPN, DONALD C.

Consulting Engineer for various clients

8. Non-teaching University Service

BROTWRIGHT, LEWELLYN JR.

Faculty advisor to approximately 25 juniors and seniors; on Graduate Examination Committee in field of electronics

BRADSHAW, MARTIN D.

Member of Engineering College Ed Hoc Committee on Undergraduate Computer Instruction Program; Also Freshman advisor

DJURIC, JOVAN

Member, Publication Committee

ERTEZA, AHMED

Graduate students' advisor of the EE Dept. Advisor to the Sandia Technical Development Program. Member of the National
AERONAUTICS, AND SPACE ADMINISTRATION FELLOWSHIP COMMITTEE

KARUTI, SHELTON

Member, University Research Committee; Member, Schedule and Enrollment Committee, Member, Mechanics Teaching Committee; Faculty Advisor, ISEE Student Branch

KELLY, RUBIN

Scholarships and Awards Committee for School of Engineering and also Dept. of EE. Supervised Electrical Engineering Open House equipment usage.

KOSCHMANN, ARNOLD H.

Engineering Administrative Committee; Member, Subcommittee on Residence Requirements for Graduate Committee

LAMBERT, JOSEPH S.

Member, Curriculum Committee; Faculty Advisor to Naval Enlisted Scientific Education Program personnel encompassing about 70 students; Member, Governor's Scientific Advisory Committee

THEOREN, DONALD C.

Member 75th Anniversary Formal Ceremonies Committee

WILLIAMS, R. H.

Member, Student Affairs Committee; faculty advisor of Gamma Delta
9. **Public Service**

**BRADSHAW, MARTIN D.**

Deacon, Belvue Baptist Church; Superintendent Adult Sunday School Class, Belvue Baptist Church

**KARNI, SHLOMO**

Sunday School and Confirmation Class teacher, Bnai Israel Congregation

**KELLY, RUBIN**

Worked on the United Fund Committee; helped the Mile-Hi Little League with their new field construction.

**KOSCHMANN, ARNOLD H.**

Chairman, Board for Parish Education, Immanuel Lutheran Church; Bible Class Teacher; Board Member, Multiple Sclerosis Society, Albuquerque Chapter

**WILLIAMS, R. H.**

Member of the Board of Parish Education, Redeemer Lutheran Church
I. General departmental information

A. Achievements

(a) Student Enrollments and degrees granted

<table>
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<th>Sophomore</th>
<th>Junior</th>
<th>Senior</th>
<th>Graduate</th>
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<td>41</td>
<td>28</td>
<td>55</td>
<td>123</td>
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<tr>
<td>Sem. II</td>
<td>33</td>
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<td>113</td>
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<tr>
<td>B.S. (M.E.)</td>
<td>June 1964</td>
<td>35</td>
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<tr>
<td>M.S.</td>
<td>June 1964</td>
<td>23</td>
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</tr>
</tbody>
</table>

As compared to 1962-63 these figures show a slight increase in both undergraduate and graduate enrollment; a considerable increase in B.S. degrees (75%), and a decrease in M.S. degrees (21%). Two other features of these figures seem significant. The decrease in the junior class (43% less than 1962-63) indicates that the number of B.S. degrees will be down in June 1965. The increase in the sophomore class (26% more than 1962-63) indicates the situation will be reversed, however.

(b) Curriculum changes

The curriculum has been rearranged to require all students to take a Mechanical Engineering Design course which will draw upon and require the application of material covered in previous Engineering Science courses. Although this rearrangement had some effect on the program for each of the three years; sophomore, junior, and senior;
the only new course added was one in Mechanical Engineering Design M.E. 359L. It is our hope that we can arrange two sections of this course, staffed by men with considerably different interests and backgrounds, and that they can collaborate to insure that the course will be representative of the broad scope of mechanical engineering work.

During the past year three new courses were added in the Industrial Engineering area. These courses are Engineering Economy (350), Engineering Statistics and Quality Control (355), and Methods Engineering (490). Since there is no department or option in Industrial Engineering at The University of New Mexico it was felt that these three basic courses should be available as technical electives.

At the graduate level the department has added Special Topics (M.E. 561-562) and Seminar (M.E. 591-592). Seminars in Solid Mechanics were offered during both semesters of the past year. Professor Fred Ju arranged for both of these programs. Speakers were from research agencies in the state and from the west coast. Average attendance was forty, with the audience drawn from Sandia Base, Kirtland laboratories, as well as UNM staff and students. During Semester II, 1963-64 Dr. Orval Jones of the research group at Sandia Corporation offered the first Special Topic on Wave Propagation.
(c) Laboratories

The undergraduate laboratory has been completely reworked in both content and appearance. This reworking was precipitated by the N.S.F. Undergraduate Scientific Equipment Program Grant which the department was awarded on May 2, 1963. A special laboratory committee consisting of Mr. Leroy Wilson, Chairman, Prof. Floyd Calvert, Prof. A. V. Houghton, and Mr. Herbert Treat planned the new laboratory facilities and course content. As of this date $16,000, or 61%, of the N.S.F. grant ($8,000 N.S.F., $8,000 Matching Funds by UNM) have been spent for new laboratory equipment. All of this equipment is already in use in the undergraduate laboratories. One of the major problems associated with this laboratory improvement has been the expense of rebuilding much of the interior of the M. E. building. Because of this expense the department has expended almost all of its total Expense and Equipment Budgets for physical plant alterations.

(d) Student Accomplishments


Pi Tau Sigma, national mechanical engineering honorary, elected Melvin Anderson, Joshua Fajusigbe, Donald Fritsch, Ben Gay, Edward McCausland, Robert Pritchard, and Richard Rhorer.
Blue Key honorary selected John Reynolds and Joshua Fajusigbe.

Jerry T. Cole was the recipient of The Southern Union Scholarship for 1963-64.

In local competition, Hans Neubert, a sophomore, and Melvin Anderson, a senior, won the New Mexico Section of The American Society of Mechanical Engineers student paper competition. Mr. Anderson went on to place third in the Rocky Mountain Region VIII competition held at UNM on May 8 & 9. The regional conference was completely organized and administered by the local student section.

B. Plans and Recommendations

During the 1964-65 school year the department will offer a new course in Mechanical Engineering Design for the first time. We expect that this will involve most of the staff in planning and preparation and will be a major undertaking for the staff members who are assigned to teach the course.

The Seminar programs started this year will be continued. Professors Skoglund and Wildin will arrange a series of seminars on Fluid Mechanics for next fall.

Course offerings in special topics will also be continued. Next fall Dr. A. J. Touryan of the Sandia Corporation's Aerodynamics Department will teach a special topics course in Plasma Dynamics.
The reworking of the undergraduate laboratory will continue and at the end of the next academic year the entire N.S.F. Undergraduate Equipment Grant will have been spent and equipment put into service.

During the next year the department expects to make a major effort in the field of automatic controls.

A problem that has long been recognized and which has now become acute is that of facilities for graduate student research. At the present time there are 29 doctoral students enrolled in the department, 5 of these have been advanced to candidacy and will soon be working on their dissertations, and 4 are presently working on dissertations. None of these four students are doing their dissertations in the department, because adequate facilities are not available. Doctoral students doing their dissertations off-campus will, in most cases, have less contact with their advisor than if they were on campus. In addition they face problems such as: equipment being suddenly assigned to other, higher priority, projects; the student suddenly being assigned, either temporarily or permanently, to other work. Furthermore, the department does not grow in research capabilities unless doctoral research is done in the department.

I recommend that the Mechanical Engineering Department be given a separate budget item for "graduate research facilities" in addition to the normal equipment item and that such a
separate budget be continued as long as the need for graduate research facilities continues to expand.

Another pressing problem is that of office space. At the present time every office available to the Mechanical Engineering Department is full, and three offices designed for one occupant are used by two staff members. Where the two new staff members that are expected next fall will be officed is at present unknown.

C. Appointments to staff

Mr. W. E. Baker - Assistant Professor - September 1964
(returning after 2 year's leave)
Mr. R. V. Browning - Graduate Assistant - September 1964
Mr. J. D. Gibson - Instructor - September 1963
Mr. W. E. Sedlock - Graduate Assistant - September 1964

D. Separations from staff

Mr. J. G. Baker - Transferred from Graduate Assistant to Research Assistant - June 1964
Mr. R. A. Benham - Transferred from Graduate Assistant to Research Assistant - June 1964
Mr. C. H. Treat - Resigned to accept N.S.F. Traineeship at UMD
Dr. F. D. Ju will be on a sabbatical leave during Semester I, 1964-65
Prof. F. O. Calvert will be on leave without pay during Semester I, 1964-65
II. Composite of information in biographical supplements

1. Advanced Study

Baker, W. E.

Continued full-time study on Ph.D. at University of Texas.

Calvert, F. O.

Fortran short course on programming IBM 1620
Summer school at University of Arizona, 1963

Gibson, J. D.

Ten hours of course work on Sc.D. at UNM

Houghton, A. V.

Audited Math 192

Wambold, J. C.

Thirteen hours of course work on Sc.D. at UNM
(This completes Mr. Wambold's course work requirement)

Wildin, M. W.

Audited M.E. 210 (Contemporary Problems in Aerodynamics) and M.E. 220 (Analysis of Thermal Stresses)

Wilson, L. E.

Twelve hours of course work on Sc.D. at UNM
Seven hours at Oklahoma State - Summer 1963
2. Sabbaticals, etc.

Bailey, A. P.
Summer teaching – Peace Corps

Baker, W. E.
Leave of absence without pay to study at
University of Texas

3. New Scholastic Honors

Houghton, A. V.
Recipient of invitation to attend conference
on "Simulation In Space Technology"

Skoglund, V. J.
Recipient of invitation to attend conference
on "Simulation In Space Technology"

Treat, C. H.
Awarded an N.S.F. Traineeship to work on Sc.D.
(Fall 1964)

Wilson, L. E.
Awarded an N.S.F. Summer Institute Fellowship
for study in Gas Dynamics and Heat Transfer
at Oklahoma State University (Summer 1963)

4. Publications

a. Technical papers and books

BAKER, W. E. and R. C. DOVE
"Construction and Evaluation Of A Three
Dimensional Strain Rosette" – Experimental
Mechanics, Vol. 3, No. 9 – September 1963

DOVE, R. C. and P. H. ADAMS
Experimental Stress Analysis and Motion
Measurement – 508 pages – C. E. Merrill Books
1964
HOUGHTON, A. V., and R. U. ACTON
"Optional Acoustic Effects" - AIAA Journal
Vol. 2, No. 1 - January 1964

JU, F. D.
"On The Logarithmic Hypothesis of Plane Dislocation Stress Potential Functions"
Jour. Franklin Inst., Vol. 276 #2 - August 1963

JU, F. D., et al
"Applications of Logarithmic Theory of Plane Elastic Dislocations" - Jour. Franklin Inst.,
Vol. 276 #2 - August 1963

SKOGLUND, V. J., and YANO, D.

TREAT, C. H., R. A. AXFORD, et al
"Paste Fuel System for a Large Fast Breeder Reactor" - Proposal UNC-C-103 - October 1963

b. Reviews of Technical Papers

GERARD, F. A.
The following reviews appear in "Applied Mechanics Reviews."

Two dimensional problems in the theory of elasticity with arbitrary curvilinear coordinates (in French). Teodorescu - AMR 37645,6,7,8, - July 1963

New mechanism stops spin of rotating masses - Creech and Fergin - AMR 4368 - August 1963

Analysis of circular cylindrical shells by Shorer's approximation (in German). Dabrowski - AMR 4455 - August 1963

Dynamic matrix analysis of framed structures - Lausen, Shubinski, R. W. Clough - AMR 4594 - August 1963

Statistical deflection of a rhomboidal plate with clamped edges subjected to uniformly distributed pressure - Ota and Hamada - AMR 5715 - October 1963
Rigid-plastic analysis of general structures - Martin - AMR 5834 - October 1963

Uniqueness of harmonic functions under boundary conditions - Martin - AMR 6837 - December 1963

On the action of concentrated forces and moments on an elastic thin shell of arbitrary shape - Chernyshev - AMR 125

Analysis of steel orthogonally anisotropic rectangular plates consisting of a plane sheet metal cover and in addition with one side having discontinuously arranged triangular hollow ribs with torsional stiffnesses (in German) - Schumann - AMR 135 - January 1964

5. Other research or creative work

BAILEY, A. P. - Worked on Dr. Ju's research contract with A.F.O.S.R.

DOVE, R. C. - Worked 1/8 time for Air Force Shock Tube Facility, and 1/8 time for N.A.F.B. under Contract 290-344

GERARD, F. A. - Writing text on "Higher Calculus" to be published by Cambridge University Press

HOUGHTON, A. V. - Development of Experimental Methods for High Temperature Density Measurements - Unsponsored


"Low Cycle Dynamic Loading" - A.F.O.S.R. - $8,000.

"Low Cycle Failure" N.S.F. - $9,000 (with Prof. Yao of C.E. Dept.)

Writing text on "Elasticity" to be published by D. Van Nostrand.
SKOGLUND, V. J. - Writing text on "Similitude."
Preparation of special problem set for doctoral level fluid dynamics course - "Interaction of a Shock Wave and Boundary Layers" Sandia P.O. #59-7990, Task #3 $11,500.

WAMBOLD, J. C. - "How to measure mechanical properties of small specimens," for Sandia Corporation as a summer employee in 1963.


6. Activities in learned and professional societies


CALVERT, F. O. - Attended A.S.M.E. field trip, American Society of Heating, Refrigeration, and Air Conditioning Engineers meetings, and A.S.M.E. Regional Student Conference.


HOUGHTON, A. V. - Attended A.S.M.E. and Sigma Xi meetings.

7. Other professional activities

BAILEY, A. P. - Judge at two science fairs.

Expert witness in two court cases.


HOUGHTON, A. V. - Lecture on "Computational Methods" at St. Vincent's Academy; assisted in successful proposal to N.S.F. for computer facility.

JU, F. D. - Consultant to L.A.S.L.; special consultant to local insurance company, 16 hours.

SKOGLUND, V. J. - Member of Sub-Committee K-6 on experimental heat transfer of A.S.M.E.

WAMBOLD, J. C. - Consultant on one patent and has one patent pending on hydraulic motor.

8. Non-teaching University service

BAILEY, A. P. - Engineering Freshman Advisor; Engineering Open House Committee.

CALVERT, F. O. - Engineering Freshman Advisor; M.E. Department Laboratory Modernization Committee; M.E. Department Design Course Committee; M.E. Department representative at Senior Day; M.E. Department class scheduler.

DOVE, R. C. - University Research Committee.

GERARD, F. A. - University Library Committee.

HOUGHTON, A. V. - Chairman, Engineering Doctoral Committee; Member of Honorary Degree Subcommittee of Graduate Committee; University Registration Committee; M.E. Department Laboratory Modernization Committee; M.E. Graduate Student Advisor.

JU, F. D. - Faculty Advisor to Sigma Tau; Advisor to Junior Class; University Graduate Committee.

SKOGLUND, V. J. - Preparation of Application for N.D.E.A. Title IV Graduate Fellowships.

TREAT, C. H. - Chairman, Engineering College Student Affairs and Awards Committee; Faculty Advisor to A.S.M.E.; Faculty member in charge of Engineering Open House; Faculty member in charge of Region VIII A.S.M.E. Conference held in May 1964; Engineering Freshman Advisor; M.E. Department Laboratory Modernization Committee.
WILDIN, M. W. - Faculty Advisor to Pi Tau Sigma;
   Engineering Advisor to non-degree students.
WILSON, L. E. - Engineering Freshman Advisor;
   Chairman of M.E. Department Laboratory Modernization Committee.

9. Public service

BAILEY, A. P. - Optimist Club of Albuquerque
   Boys Work.
CALVERT, F. O. - Teacher and Deacon, Sandia
   Baptist Church.
HOUGHTON, A. V. - Boy Scouts of America Advisor
   to Explorer Post.
WAMBOLD, J. C. - Teacher of 9th Grade Sunday School
   Class; Commissioner, Boy Scouts of America.
   Advisor to Order of the Arrow (Boy Scouts).
WILDIN, M. W. - M.E. Department representative
   for United Fund.
The first unit of the Fine Arts Center building was completed in the fall of 1963. For the Department of Music this was a momentous occasion, as the new building provides ideal facilities for the study and performance of music. The entire College of Fine Arts gained greatly through the establishment of the branch Fine Arts Library in which, after many years, the university's collections of books, journals, scores, recordings, slides and photographs were brought together in a single place. Even during its first transitional year the new library proved to be of immeasurable benefit to the quality of instruction in the college.

Of equal importance was the opening of the new University Art Gallery. Here for the first time on the campus, and indeed in Albuquerque, it became possible to present exhibitions of major importance. Beginning with the comprehensive exhibition, *Taos and Santa Fe: The Artist's Environment, 1882-1942*, the gallery presented a series of events which attracted enthusiastic response from the entire community. The effect of the gallery program as a stimulus to student
work in art was seen immediately, particularly at the graduate level.

Necessarily, much of the administrative effort of the college was directed toward the pleasant but numerous problems always associated with occupancy of a new building. With the cooperation of the architects, the contractor, and the staff of the Physical Plant Department, most of these problems were solved in good time. In total, the first unit of the Fine Arts Center building admirably fulfills the purposes for which it was designed. The acoustical qualities of the music facilities are generally excellent. The Recital Hall is truly superb, and even the large Foyer has proven to be a most satisfactory place for orchestral performances during the interim period prior to completion of the Concert Hall.

During the year a number of advances were made within the academic departments of the college:

A new concentration in Applied Music Pedagogy was approved by the faculty and administration and is listed in the catalog for 1964-65.

A proposal to establish the Master of Fine Arts degree in the studio fields of art was formulated by the Department
of Art and submitted to the Graduate School for consideration. It is anticipated that this important new program will gain approval in the coming year.

Beginning in the fall of 1964 a new program of graduate and undergraduate instruction in lithography will be offered under the direction of Mr. Garo Antreasian, a distinguished artist and teacher who joins the faculty this year.

In cooperation with the University Press the Art Gallery initiated a continuing series of publications related to gallery exhibitions. To date, the following books have been published or are in preparation:

- Taos and Santa Fe: The Artist's Environment, 1882-1942
- Kenneth Adams: A Retrospective Exhibition
- Raymond Jonson: A Retrospective Exhibition
- The Painter and the Photograph (in preparation)

Since its opening the gallery has received as gifts more than one hundred paintings, drawings and prints having a total valuation considerably in excess of $50,000.00.

The college participated actively in the celebration of the university's 75th Anniversary. A model of the campus and an accompanying photographic exhibition were designed and constructed under the direction of Mr. Don Schlegel, Associate Professor of Architecture. An exhibition of paintings and sculpture by prominent alumni was presented.
in the Art Gallery during February and March. A major
exhibition, *Art Since 1889*, will be held in October at the
time of the formal dedication of the Fine Arts Center. Also
planned for fall are a series of special lectures and musi-
cal events, beginning October 20 and continuing through
December.

The many other programs, recitals, concerts, exhibitions
and theatre productions presented by the college as a part
of its contribution to the cultural life of the campus and
the community are listed in the FINE ARTS CALENDAR, published
seven times during 1963-64. Copies are attached to this
report.

Despite completion of the new building severe problems
were created within the college by the continuing increase
in enrollment. During the seven-year period between 1957-58
and 1963-64 enrollments in Fine Arts increased at a rate
substantially greater than that for the University as a
whole.

<table>
<thead>
<tr>
<th></th>
<th>Fall Semesters 1957-8</th>
<th>1957-8; 1963-4; % increase</th>
<th>Spring Semester 1957-8</th>
<th>1957-8; 1963-4; % increase</th>
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</thead>
<tbody>
<tr>
<td>CFA</td>
<td>161</td>
<td>293</td>
<td>82.0</td>
<td>154</td>
</tr>
<tr>
<td>Univ.</td>
<td>6648</td>
<td>9494</td>
<td>42.8</td>
<td>6146</td>
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</table>
Table 2
Total Student Credit Hours, College of Fine Arts and the University as a Whole

<table>
<thead>
<tr>
<th></th>
<th>Fall Semester</th>
<th>Spring Semester</th>
<th>% increase</th>
<th>% increase</th>
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<tbody>
<tr>
<td></td>
<td>1957-8</td>
<td>1963-4</td>
<td>% increase</td>
<td>1957-8</td>
</tr>
<tr>
<td>CFA</td>
<td>3697</td>
<td>6457</td>
<td>74.7</td>
<td>3810</td>
</tr>
<tr>
<td>Univ</td>
<td>73631</td>
<td>111503</td>
<td>51.4</td>
<td>68224</td>
</tr>
</tbody>
</table>

Within the College of Fine Arts, the distribution of the increased enrollment by department is shown below. Totals in Table 3 do not agree with Table 1 because students undecided as to major have been omitted. Comparable figures are not available for Architecture, which was a division of the College of Engineering in 1957-58.

Table 3
Students Enrolled in the College of Fine Arts (by Departments)

<table>
<thead>
<tr>
<th>Department</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
<th>% increase</th>
<th>% increase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1957-8</td>
<td>1963-4</td>
<td>% increase</td>
<td>1957-8</td>
</tr>
<tr>
<td>Arch</td>
<td>-</td>
<td>85</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Art</td>
<td>93</td>
<td>113</td>
<td>21.5</td>
<td>86</td>
</tr>
<tr>
<td>Drama</td>
<td>24</td>
<td>29</td>
<td>20.8</td>
<td>24</td>
</tr>
<tr>
<td>Music</td>
<td>43</td>
<td>63</td>
<td>46.5</td>
<td>39</td>
</tr>
</tbody>
</table>

Table 4
Student Credit Hours, College of Fine Arts (by Departments)

<table>
<thead>
<tr>
<th>Department</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
<th>% increase</th>
<th>% increase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1957-8</td>
<td>1963-4</td>
<td>% increase</td>
<td>1957-8</td>
</tr>
<tr>
<td>Arch</td>
<td>-</td>
<td>644</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Art</td>
<td>1804</td>
<td>3564</td>
<td>97.6</td>
<td>1962</td>
</tr>
<tr>
<td>Drama</td>
<td>400</td>
<td>760</td>
<td>90.0</td>
<td>428</td>
</tr>
<tr>
<td>Music</td>
<td>1493</td>
<td>2133</td>
<td>44.3</td>
<td>1420</td>
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</tbody>
</table>
It will be noted that the Department of Art is much the largest of the College's four instructional departments. Of the undergraduate students enrolled in the College of Fine Arts in Semester II, 1963-64, 43.4% were majors in art, and the Department produced 55.2% of total course enrollments. In recent semesters it has been characteristic that most classes in art have been closed to further enrollment well before the end of the registration period, with the consequence that many students desiring to enroll have been denied admission. Although the numbers are not so great, a similar situation exists in the field of applied music.

In music the pressures of enrollment can be met through the creation of additional faculty positions. Ample teaching space exists in the new Fine Arts Center building.

In art the solution is more difficult, for present teaching space is filled almost to capacity. Further increase in enrollment can be made possible only through the addition of both faculty and space.

In drama, despite recent increases in enrollment, the foremost problem is that of sub-standard and obsolete facilities. Rodey Theatre has long been known to be totally unsatisfactory for university theatre productions.
Its stage and equipment, improvised over the years and held together by ingenuity and bailing wire, are deplorable. Minor improvements may be possible but no significant advance can be made until the new theatre is built.

Although in the fall of 1963 it was possible to assign some added space to the Departments of Architecture, Art and Drama in buildings vacated by the College of Education and the Department of Music, the new space has already proven to be inadequate to meet enrollments, and it can clearly be seen that a critical situation will soon exist, particularly in the Department of Art, unless it becomes possible to commence construction of Phase II of the Fine Arts Center at a very early date.

The areas of instruction which present the greatest problems are those which require special utilities and equipment, as do sculpture, ceramics, jewelry, printmaking and photography. The studios in which these subjects are presently taught are ill-adapted to the purpose. Money which might be spent to ameliorate the situation would be (except for purchase of moveable equipment) money down the drain. The only alternative to unprofitable expenditures is to accelerate construction of at least a portion of the
eventual facilities for the Department of Art.

Architecturally it would be feasible to construct a small building to house four or five studios in the area presently occupied by the tennis courts south of the old Stadium. This building would later be connected to the Fine Arts Center by construction of the eventual art and architecture wing.

Were such a building to be built, it would be possible to make effective and efficient use of the Crafts Annex as studio space for the teaching of design and drawing, meeting the immediate needs of the Departments of Art and Architecture.

Unless it becomes certain that it will be possible to proceed within the next two years to commence construction of Phase II of the Fine Arts Center, this College will urge that, as an alternative, the highest priority be assigned to construction of the small studio building that is here suggested.

The completion of new buildings, together with mounting enrollment and an increased emphasis upon graduate instruction, will serve to intensify the need for an orderly program of capital expenditures. Among the items which should be
programmed for the years immediately ahead are these:

1. Substantially greater funds must be made available for purchase of out-of-print books and periodicals. The present gaps and weaknesses in the Fine Arts Library are a severe handicap to research and to advanced instruction.

2. Our offerings in sculpture have been badly handicapped by the lack of equipment for casting in bronze.

3. Additional studio equipment (drafting tables, stools, easels, etc.) is badly needed in the Departments of Art and Architecture.

4. The Recital Hall remains incomplete pending installation of the organ.

The problems relating to accreditation of the Department of Architecture were discussed at length in last year's annual report.

As a means of gaining further understanding of these problems, it was decided in the fall of 1963 to invite two distinguished visitors to the campus to survey the department and report upon its needs. The visitors were Mr. James M. Hunter, F.A.I.A., Boulder, Colorado, and Mr. Roger Bailey, F.A.I.A., Professor of Architecture at the University of Utah.
Both Mr. Hunter and Mr. Bailey gave most generously of their time and advice, and their reports were constructive and helpful. It was possible during the year to implement many of their recommendations, among them the following:

1. The series of courses in structures offered by the Department of Civil Engineering was revised to provide an improved sequence for architecture students.

2. A fourth full-time faculty position was added to the department's budget for 1964-65.

3. Significant improvements were made throughout the budget of the department.

In the spring of 1964 the University of California at Berkeley extended through Mr. Allen Temko a most generous offer to assist in the development of our program. In June Professor Don Schlegel visited the Berkeley campus, spending a full week in consultation with the faculty and administration of the Department of Architecture and the College of Environmental Design. Mr. Schlegel's report upon his visit provides many valuable insights into current concepts in architectural education.

It is planned during the coming year to consult other outside critics and to continue to work actively toward
achievement of a program of strength and quality in architectural education.

Throughout the college the accomplishments of individual members of the faculty have been many and varied. These are listed in detail in the several departmental reports and in the annual supplements to the biographical record. Special mention should be made of the invaluable service to the university of the distinguished American artist, Mr. Morris Kantor, who served as Visiting Professor of Art and Artist-in-Residence during the spring semester.

A number of new appointments were made. These, as well, are listed in the departmental reports. To a degree greater than ever before the increasing competition for qualified faculty was sharply felt. Even after a long and intensive search begun in the early fall, it proved impossible to fill a senior position in the history of art. The recent increases made in faculty salaries will be most helpful, but it is evident that progress is necessary in other areas as well. Library resources, teaching loads, studio facilities, travel funds, and many other factors are of central importance in attracting men of high quality.

The following administrative appointments were made:
Professor Van Deren Coke was appointed Chairman of the Department of Art while continuing to act as Director of the Art Gallery. Mr. Robert M. Ellis will join the faculty in the fall of 1964 as Assistant Director of the Art Gallery.

It would be remiss to conclude this report without expressing our deep appreciation to the Regents, President Tom L. Popejoy and the officers of the administration for having made possible the construction of the Fine Arts Center; and to Acting Academic Vice President Hoyt Trowbridge for his sympathetic understanding and assistance. To the many members of the university staff who aided us during the year, we likewise express our gratitude.
I. General Departmental Information

A. Significant achievements during academic year, 1963-64

a. The curriculum in architecture was re-evaluated this year with the following changes being effected:

1. The requirement for graduation was reduced to 164 credit hours which is more in keeping with other programs on this campus.

2. Two planning courses were added to the curriculum. These are open to anyone in the University, and enrollment of students from other colleges is encouraged.

3. A series of structural courses entirely for architectural students will be offered for the first time this fall. These intuitive structural design courses are more nearly in keeping with the recent thinking in architectural curriculums. It will be necessary for this department to have complete control of the contents and teaching methods of these structural design courses to get the best results.

b. The Sandia Savings and Loan Association is now giving two full tuition scholarships to architectural students in addition to prize money for an architectural design competition.

c. Space in the Crafts Annex consisting of two design rooms, four offices and two storage areas was obtained this year. This relieves some of the pressure of space requirements which existed in the past.

d. The number of students majoring in architecture for the past five years is shown in the table below. As noted, the enrollment for the past two years has remained nearly constant. Some students have become discouraged and have transferred to other schools of architecture simply because we have been unable to get the accrediting board to pay us a visit.
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<td>Year 1</td>
<td>63 42</td>
<td>66 64</td>
<td>53 34</td>
<td>72 64</td>
<td>59 55</td>
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<tr>
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<td>22 24</td>
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<td>25 19</td>
<td>19 16</td>
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<tr>
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<td>13 11</td>
<td>14 10</td>
<td>15 15</td>
</tr>
<tr>
<td>BA in FA</td>
<td></td>
<td></td>
<td></td>
<td>11</td>
<td>9 12</td>
</tr>
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<td>127 96</td>
<td>136 132</td>
<td>154 117</td>
<td>147 143</td>
<td>142 136</td>
</tr>
</tbody>
</table>

e. Members of the various professions have assisted this department as critics and judges on juries and as guest lecturers. The list is as follows:

Arthur Blumenfeld  Ira Lieberman
Garlan Bryan       Claude Lyon
William Burk       Don McNeil
John Conron        John Mills
William Darnell    James Morley
Morris Freedman    Dick Otto
Ronn Ginn          W. Dean Powell
Lars Halama        J. N. Rumble
Kenneth Hansen     Sherman Smith
Buck Holien        Allan Temko
Van Dorn Hooker    Elsa Thompson
Jim Innis          Don Wakefield
Bernie Jones       Robert Walters
Vaughn Justice     Jim Winchell
Edward Kehoe       George Wright

Jose Yguado

f. The following exhibits of student work were displayed in various locations during the school year. These exhibits were supervised by the faculty of this department.

1. Architectural models of old and recent buildings, New Mexico Union - November 25 - December 6, 1963.
2. Housing designs for the New Mexico Homebuilders Competition, Tingley Coliseum, New Mexico State Fairgrounds - April 15-19, 1964

The department sponsored an exhibit of twelve churches as presented by the California Redwood Association in the following locations:
h. Three guest lecturers of national and international fame as architects talked to our students during the year.

Mr. W. C. Muchow of Denver, Colorado - May 8, 1964
Mr. Felix Candela of Mexico City, Mexico - February 25, 1964
Mr. Allan Temko, staff member of the School of Environmental Design, University of California - May 14, 15, 1964.

i. Inspection trips:

Architectural tour to Denver, Colorado - April 16, 17, 1964.

B. Significant Plans and Recommendations for the Future.

If this department is to obtain a visit by the National Architectural Accrediting Board, more support must be forthcoming on the following items:

a. Another full time faculty member is needed so that there will be a permanent staff member in each of the architectural design levels, plus one full time member in the practical or technical phase of architectural education.

b. The salaries of the part time lecturers were raised for the school year, 1964-65, but it is doubtful if they are comparable to the importance of these positions in the architectural curriculum.

c. This department will receive $500 from the Greater University of New Mexico fund for a visiting lecturer. For this amount we will probably get one person to visit us for a few days. There should be several such visiting critics each year.

d. A full time secretary is needed for this department. Some of the clerical work is now done by the faculty during the school year, while in the summer months all correspondence is typed by the faculty of this department.

e. Additional space for this department is needed in the following areas:

1. A workshop equipped with tools where students may work on models. As it is now, they prefer working at home, and thereby miss the criticisms of the instructor and other students.
2. An exhibition space and critique room is needed to display student work for the benefit of all students studying architecture. At present, the designs are returned to the students or stored immediately after they are graded.

3. A reproduction room consisting of photographic and printing equipment would be most helpful as another method of delineation.

C. Appointments to Staff:

James R. Jarrett, Assistant Professor - September 1, 1964.

D. Separations from Staff:

None

II. Composite of information requested on individual biographical Supplements.

1. Advanced study - additional earned degrees, certification, thesis titles, etc.

None

2. Sabbaticals, leaves of absence, summer teaching, travel, etc.

BENSON, Harold R.
Leave of Absence - Fulbright Lectureship at the National College of Arts, Lahore, W. Pakistan in Architecture & Planning - 1962-63
Travel - Summer 1962-63 in USA, Asia, Europe

3. New Scholastic Honors, fellowships, etc.

None

4. Publications.

BENSON, Harold R.
"Windcatchers" in New Mexico Architect - May, June - 1963

SCHLEGEL, Don P.

5. Other research projects or creative work in progress or completed during period.

BENSON, Harold R.
Design Consultant - Albuquerque Architects
6. Activities in learned and professional societies (meetings attended, office held, professional papers read, etc.)

BENSON, Harold R.
State Department Conference, Washington, D.C., June, 1963
Section Meeting Associated Collegiate Schools of Architecture - Austin, Texas, March, 1964

HEIMERICH, John J.
New Mexico Chapter, American Inst. of Architects
Treasurer - Reelected for 1964
Committees:
Executive - Member Meets once a month
Finance - Member
Attended Western Mountain Regional Meeting in Jackson Hole, Wyoming - August, 1963
Member of Panel - Architectural Education
Attended National A.I.A. Meeting in St. Louis, Mo., June 15-19, 1964
Association of Collegiate Schools of Architecture
Attended Southwest Section Meeting at University of Texas, Austin - March 20, 21, 1964
Attended National A.C.S.A. Meeting in St. Louis, Mo., June 12-14, 1964
Attended symposium on Professional Development in Nuclear Defense Design as related to the architectural curricula - Washington University - St. Louis, Mo., June 11, 1964

SCHLEGEL, Don P.
Secretary - New Mexico Chapter, American Institute of Architects
Member, Board of Directors - Meeting once a month

7. Other professional activities.

BENSON, Harold R.
City Planning talks to 18 to 20 service clubs in Albuquerque
Lectures in Architecture at various Pakistani Institutions

HEIMERICH, John J.
Assisted in following exhibits:
Architectural Models - New Mexico Union Lobby - Nov. 25 - Dec. 6, 1963
Bachelor Thesis exhibit, New Mexico Union - May 27-June 5, 1964
Career Day activities in Alamogordo, New Mexico - April 3, 1964 - For students from Lincoln and Otero Counties
Career Day, Valley High School, Albuquerque - April 29, 1964

SCHLEGEL, Don P.
Paper, "Esthetics in Architecture" given at Architects' Convention, Roswell, New Mexico - April, 1964
Exhibit - New Mexico American Institute of Architects Travelling Awards Exhibit
Fifteen talks on "City Planning"
Meeting, Association of Collegiate Schools of Architecture Austin, Texas, March, 1964

8. Non-teaching University service.

BENSON, HAROLD R.
Adviser to Government of West Pakistan Board of Employment & Education Department
Adviser to students in University College

HEIMERICH, John J.
Chairman, Department of Architecture
Member, Fine Arts College Executive and Advisory Committees
Adviser for all architectural students in Fine Arts College
Member, University Athletic Council

SCHLEGEL, Don P.
Special Library Committee
Planning Committee
Library Committee
University College Faculty Adviser
Architectural Consultant - "South Playfield"


HEIMERICH, John J.
Monte Vista Christian Church, Deacon and member of official board

SCHLEGEL, Don P.
Consultant to State School Health Program
Member of Governor's Committee for a State Building in Albuquerque
Consultant to St. Paul's church on building program

None
A. SIGNIFICANT ACHIEVEMENTS DURING THE ACADEMIC YEAR, 1963-64.

The past year has been very active for the Department of Art. Enthusiasm ran high due to the opening of the new University Art Gallery and the presence of a spirited faculty.

During the past year the most significant development has been the continued increase in enrollment. If we are to meet the demands in the beginning areas of instruction it will be necessary to increase the teaching staff. With the addition of more sections space will soon present an even greater problem.

In order to strengthen graduate study in Art a curriculum leading to a Master of Fine Arts degree in the studio area has been presented to the Graduate Committee.

New Mexico students graduating with a studio M.A. degree are at a distinct disadvantage when competing with those who hold the M.F.A. for appointments in institutions of higher learning.

The M.F.A. is a terminal degree and considerably broader than the M.A. It is designed to provide appropriate background for teaching positions in colleges and universities, where the graduate will be expected to be professionally qualified to teach both a studio specialty and
beginning courses in art history.

At the University of New Mexico, as elsewhere, most of the students enrolling in the graduate studio program plan to enter the academic profession. To serve effectively as members of colleges and university faculties they must be qualified as artists of knowledge, skill and creative ability. To function efficiently as studio teachers, they must be well versed in the history and criticism of art. These abilities cannot normally be developed within the 30 hour program which constitutes our present Master's degree. The M.F.A. degree will have as its minimum requirements thirty-six hours of studio work and eighteen hours of art history and allied courses for a total of at least sixty semester hours of credit including a written and studio thesis.

B. SIGNIFICANT PLANS AND RECOMMENDATIONS FOR THE NEAR FUTURE.

With the opening of the Fine Arts Center the art history courses are now taught under proper conditions for the first time which has resulted in a considerable increase in enrollment.

Plans have already been completed and funds allotted to establish a lithography print room which will finally enable the department to offer graphics courses at a high level of instruction.

There is considerable pressure to offer
photography, a course not given for the past two years due to our limited staff. The photography laboratory is inefficient and inadequate to handle our current and anticipated enrollment. This can only be remedied in part by careful utilization of the space available. An increase in equipment budget to replace old and inadequate equipment will be necessary to raise the level of instruction in this area to standards comparable to our other studio courses.

The greatest need in the drawing and painting studios is for storage space to accommodate unfinished students' work in between class periods. Our studio space is only barely adequate for our present enrollment and it can be anticipated that additional studios will be needed for design, drawing and painting within the next year or two. There is an urgent need for on-campus studio space for newly appointed faculty and for our visiting Artist-in-Residence. After a faculty member has been in Albuquerque for a year or so he will normally establish a studio off-campus. It is very persuasive in talking to perspective faculty to assure them that for at least the first year they will have adequate working space. On-campus studios serve to acquaint the students with the work of new faculty members and are therefore an important adjunct to formal class meetings.

By relocating the lights so that they would
conform to the new location of various work benches, space has been found for the increased enrollment in the jewelry classes. However as we increase our graduate program in the crafts area there will be a need for separation of facilities used by beginning and intermediate students and those taking advanced and graduate work.

Our greatest need in the department, when enrollment is considered, is for additional space in ceramics, sculpture and three dimensional design. By constructing an open-air slab concrete area behind the Crafts Annex, additional space can be developed for sculpture courses. Such an area would relieve some of the pressure on the space used by sculpture and provide better facilities for the teaching of three dimensional design. However such an open-air addition will not help to alleviate crowded conditions in our ceramics courses. Space in this area is grossly inadequate for our present enrollment. The cramped quarters will make it necessary to curb future enrollment in ceramics and the general crafts program.

C. APPOINTMENTS TO STAFF

Professor Van Deren Coke, who came to the University in 1962 as Director of the University Art Gallery and Associate Professor of Art, was appointed Chairman of the Art Department to replace Professor Lez L. Haas.
We had this year four visiting instructors. Dr. Martha de Castro, formerly of the University of Kansas and the University of Havana, taught art history with emphasis on her specialty, Latin American Art.

Professor Morris Kantor, one of America's best known painters and teachers was our Visiting Professor and Artist-in-Residence for the second semester. Professor Kantor proved to be an extremely effective teacher. To him should be credited much of the lively work in painting produced by our senior and graduate studio majors.

Professor Robert Partin, of the University of North Carolina at Greensboro, taught drawing, art appreciation and beginning design.

Mr. Norman Zammitt taught painting, design and advanced drawing.

Four new appointments have been made for 1964-65. Garo Antreasian has been appointed Associate Professor of Art. Professor Antreasian will come to New Mexico to develop an extensive program of instruction in lithography. Professor Antreasian, an internationally known printmaker, received his degree from John Herron School of Art in Indianapolis where he has been teaching for many years.

Professor Robert Ellis, who is presently a curator at the Pasadena Art Museum, has been appointed as Assistant Director of the University Art Gallery and Assistant Professor of Art. He
holds an M.F.A. degree from the University of Southern California. In addition to his duties in the Art Gallery he will be teaching art appreciation.

Professor John Kacere, who teaches at Parsons School of Design in New York, will join the faculty for the second semester of the coming year as Visiting Professor and Artist-in-Residence. Both faculty and students look forward to having Professor Kacere with us again after his very successful summer as a visiting instructor at UNM in 1963.

Professor Helmut von Erffa has been appointed as Visiting Professor of Art for Semester I, to teach art history. Professor von Erffa has recently retired as Chairman of the Art Department at Rutgers University. He will teach a course in the art of the United States, his specialty, and two other art history courses.

D. SEPARATION FROM STAFF.

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COMPOSITE INFORMATION ON INDIVIDUAL BIOGRAPHICAL SUPPLEMENTS

1. ADVANCED STUDY

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2. SABBATICAL LEAVES, TRAVEL

Bunting, Bainbridge - Semester II, 1963-64.
Kuhlman, Walter - Summer travel, San Francisco and Las Vegas, Nevada.
Lewis, Ralph W. - Summer Session at Telluride, Colorado for Western State College, Gunnison, Colorado. During the summer visited university and college art department's in the West and Midwest.

Paak, Carl E. - Sabbatical leave to Scandinavian countries to study the crafts of these areas, February 1963-September 1, 1963.

3. NEW SCHOLASTIC HONORS, FELLOWSHIPS, ETC.

Bunting, Bainbridge - Honorary membership New Mexico Chapter, American Institute of Architects.


4. PUBLICATIONS


5. OTHER RESEARCH OR CREATIVE WORK

Bunting, Bainbridge - Continued work measuring and photographing examples of New Mexico domestic architecture.

Coke, Van Deren - Work in progress; book and national exhibition which will be shown at five other institutions from Massachusetts to California, devoted to the exploration of the various ways photography has influenced painting in the 20th century. The book will serve as a catalog for the exhibition "The Painter and the Photograph". Faculty Research Grant awarded in connection with the above project. Two creative photographs reproduced in the Encyclopedia of Photography, Morgan & Morgan, New York.

Kuhlman, Walter - Thirteen paintings completed.

Lewis, Ralph W. - Continued research toward developing centrifugal casting as a more effective metalworking process. Regular research work in painting and jewelry.

Paak, Carl E. - Ceramic wall relief on new Education Building, January 1963.

Morais, Leroy - Faculty Research Grant, April 1964.

Partin, Robert E. - Drawings and oil Paintings.

Tatschl, John - Executed a Reredos for the Alumni Chapel, UNM. Designed a Medal of Merit for the 75th Anniversary, UNM. Installed the first of a group of stained glass windows, St. Andrew's, Las Cruces, New Mexico. In progress: A number of windows for the Church of the Assumption, Albuquerque; Several designs for commercial firms in New Mexico.

Thonson, William - Painting and photography.
6. ACTIVITIES IN LEARNED AND PROFESSIONAL SOCIETIES


de Castro Martha B. - Attended the Southwestern College Art Conference in Wichita, Kansas, April 1964. Member of a panel on Latin-American Art History at the above meeting.

Grow, Ronald L. - Attended the Midwest College Art Conference, Indiana University, Bloomington, November 1963. Member of a Sculpture Panel at the above meeting.

Paak, Carl E. - Artist Board of Corrales Art Association. Member, American Craftsmen Council.

7. OTHER PROFESSIONAL ACTIVITIES


Bunting, Bainbridge - Banquet speech, annual convention State chapter, AIA, April 3. Guest Lecturer, series, Department of Architecture, University of Texas, October 8. Half dozen talks to church and school groups.

Coke, Van Deren - Lectures: "Painting in the Southwest: Taos and Santa Fe" at the University of Nebraska for their series, "Art in the American West", November 1963. "The Role of the University Art Gallery" to the Albuquerque Junior League, April 1964. Sheldon Art Museum of the University of Nebraska purchased four creative photographs for their permanent collection.

de Castro, Martha B. - Member of the jury for entries in the Ecclesiastical Crafts Show at the Aquinas Newman Center, UNM, May 1964.

Grow, Ronald L. - Exhibitions: Two-Man show, Occidental College, Los Angeles, February 1964; Group show, Long Beach State College, November 1963; Group Show, Claremont College, Claremont, California, May 1964; Group show, Mt. St. Mary's College, Los Angeles, May 1964; One-Man show, Comara Gallery, Los Angeles, June 1964; Faculty Exhibition, UNM Art Gallery, February 1964.

Lewis, Ralph W. - Exhibit of painting and jewelry, Barn Gallery, Santa Fe; Wichita National Crafts Exhibit; Albuquerque Artists, Museum of New Mexico, Santa Fe; Corrales Art Association, Metalwork; Faculty Exhibition, UNM Art Gallery; Designed chain, Monmouth College Medal; Exhibited Jewelry in "Jewelry 64", Plattsburgh, New York.


Morais, Leroy - One-Man show of paintings and drawings, Jonson Gallery, One-Man exhibition, Uptown Gallery, New Orleans, March 1964; Albuquerque Invitational, Museum of New Mexico, Santa Fe; Faculty Exhibition, UNM Art Gallery.

Partin, Robert E. - Albuquerque Invitational, Museum of New Mexico, Santa Fe; Travelling Print Show, Winthrop College, Rock Hill, South Carolina; Faculty Exhibition, University of North Carolina, Greensboro; Faculty Exhibition, UNM Art Gallery; One-Man show, Jonson Gallery.

Tatschl, John - Prizes: Museum of New Mexico, June 1963, Second Prize in Sculpture. National Ecclesiastical Exhibition, Dallas, Texas, April 1964, Honorable Mention. Exhibited: National Ecclesiastical Exhibition, Woodcarving "Ecce Homo"; Museum of New Mexico, Stone Carving "Torso" (Summer), "Madonna" (Fall); Faculty Exhibition, UNM Art Gallery. Gave a group of talks at the Verde Valley School, Sedona, Arizona.

Thonson, William - Faculty Exhibition, UNM Art Gallery. Consultant Designer/Art Director for Toppino-Golden Advertising Agency and Los Alamos Scientific Laboratory. Talk on Magazine Design to Western Association of Alumni Magazine Editors.
8. NON TEACHING UNIVERSITY SERVICE

Adams, Clinton - Member Administrative Committee; Committee on Entrance and Credits. Graduate adviser, Department of Art.

Coke, Van Deren - Member Graduate Committee; Chairman, Sub-Committee of the Graduate Committee on Honorary Degrees; Sub-Committee on Library Holdings; Cultural Events Committee (75th Anniversary). Faculty Advisor.

Grow, Ronald L. - University College Advisor.

Kuhlman, Walter - Faculty Advisor.

Lewis, Ralph W. - Curricula Committee; Faculty Advisor; Fine Arts Advisory Committee.

Paak, Carl E. - Research Committee, Research Lectureship Committee, Board of Coronada Credit Union, Faculty Advisor.

Morais, Leroy - Faculty Advisor.

Partin, Robert E. - Faculty Advisor.

Tatschl, John - Talks to Sororities, German Club, TV-Humanities Special. University College Advisor.

Thonson, William - Publications Committee; Seventy-fifth Anniversary Exhibition Committee; Co-Chairman, Seventy-fifth Special Objects Committee; Designer of various University publications. Faculty Advisor.

9. PUBLIC SERVICE

Bunting, Bainbridge - Young Audiences, Albuquerque Chapter, Treasurer. Director, Verde Valley School, Sedona, Arizona.

Coke, Van Deren - Conducted for the Albuquerque Junior League, a three month training school for docents to serve the University Art. Gallery.
Lewis, Ralph W. - Juried Show, 4th Army Crafts Show.

Paak, Carl E. - Talk and slides on crafts in Scandinavian countries at Folk Art Museum, Santa Fe, New Mexico.

Thonson, William - Design for Albuquerque Association for United Nations (Cover Design); Posters, announcement for Peace Information Center. Judge for Crafts Fair Cover Contest.

10. PERSONAL INFORMATION

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The Report of the University Art Gallery
July 1, 1963 – June 30, 1964
Van Deren Coke, Director

STAFF

The University Art Gallery, the most recently established department of the College of Fine Arts, was opened to the public in October, 1963. At that time the staff consisted of Van Deren Coke, Director; William Thonson, part-time Designer; and Mrs. Jo Culberson, Secretary. As of January 1st, upon the resignation of Mrs. Culberson, Mrs. Frances Hogan, a previous student in the College of Fine Arts, assumed the position of Gallery Secretary. David Fisher was assigned by the Department of Art as part-time Graduate Assistant to aid in installations.

The University has recently appointed Robert Ellis to the position of Assistant Director. Mr. Ellis has, for the past eight years, been curator of Education at the Pasadena Art Museum in California. He will assume his position at the University in September, 1964.

Mr. Eddie Wong has been assigned as the Graduate Assistant in the Gallery for the first semester of 1964-65.

EXHIBITIONS

The Art Gallery serves not only as a teaching aid for students in the Art Department but as a focus for general community interest in the arts. It was therefore most appropriate that the first exhibition should be devoted to a historical survey titled Taos and Santa Fe: The Artist's Environment, 1882-1942. This exhibition of 109 works by the major artists who worked in northern New Mexico before 1942, was enthusiastically received. Attendance was considerably greater than anticipated and favorable notice was taken of this exhibition throughout the entire region. This show was a collaborative enterprise between the University Art Gallery and the Amon Carter Museum of Western Art in Fort Worth. The exhibition was on
display for six weeks in Fort Worth, and later was shown at the La Jolla Art Center in California. By arranging to exhibit this unusual collection of New Mexico paintings in other areas, attention was called to the many important artists who have found the state of New Mexico a stimulating place to work.

In November two exhibitions of graphic work were shown. The John Paul Jones Retrospective, organized by the Brooklyn Museum, occupied the lower gallery, and Lithographs From the Tamarind Workshop in Los Angeles were shown in the upper gallery.

At the beginning of the second semester a very lively exhibition of works from the L. M. Asher Family Collection, Los Angeles, was displayed in the upper gallery. Though controversial, due to the large number of avant-garde works included, the students in the Department of Art found this exhibition particularly interesting and stimulating since it was the first opportunity many of them had to see examples of 'Pop Art'.

While the Asher Collection occupied the upper gallery, an exhibition of Photographs by Sheila White was shown in the small print room in the lower gallery, and Selections From the Permanent Collection were hung in the large lower gallery.

In March there was hung in the upper gallery a series of fifteen small one-man shows of work by some of the alumni who have distinguished themselves since their graduation from the University of New Mexico. This was the first of two exhibitions planned in celebration of the 75th Anniversary of the University. It was gratifying to see the high level of work achieved by these graduates of the Department of Art. Upon conclusion of the 75th Anniversary Alumni Exhibition eleven of the participating artists gave to the University an example of their work.

Also in March, an extensive showing of faculty work was held in the lower gallery. This was the first time that students and the community have been able to view a comprehensive selection of work by the staff of the Department of Art.

In April two very important retrospective exhibitions were held throughout the galleries. Honored were Raymond Jonson and Kenneth M. Adams, distinguished emeriti professors of the Department of Art.
Many friends and acquaintances of the two artists expressed their great pleasure at having an opportunity to see a large collection of works by these men who have spent the major portion of their lives in New Mexico.

The final exhibition of the Spring semester consisted of work by Students in the Department of Art and six Masters Theses Exhibitions. The new Art Gallery made it possible to view a group of Masters Theses shows together.

The exhibitions projected for the summer are Selected Work by Students in the Department of Art, New Acquisitions to the Permanent Collection and a small show of 19th Century French Prints. In September an exhibition of works for purchase and Relief-Constructions by Raymond Barnhart will be held. For October there will be a Paul Burlin Exhibition. (Mr. Burlin will be our visiting artist-in-residence under a Ford Foundation Grant to the American Federation of Arts.)

In October and November the University Art Gallery will have on display the most ambitious exhibition ever shown in New Mexico. Titled Art Since 1889, this exhibition is also in celebration of the 75th Anniversary of the University and will open in conjunction with the dedication of the Fine Arts Center in October. Included in this show will be a large number of works by masters of the many modern movements which have made the art scene since 1889 so exciting. Such well known artists as Cezanne, Braque, Dali, Klee, Gauguin, Rodin, Matisse, Picasso, Renoir, Lautrec and O'Keeffe will be represented. Selections will include paintings, drawings, sculpture, prints and photographs.

GALLERY PUBLICATIONS

In order to give exhibitions a lasting value and preserve for further study the information gathered when they are assembled, a program of publications has been initiated by the University Art Gallery. Issued by the Gallery during the year 1963-64 were:
"Taos and Santa Fe: The Artist's Environment, 1882-1942", by Van Deren Coke; two appropriate individual documentary and critical booklets devoted to the work of Kenneth M. Adams and Raymond Jonson;
and illustrated brochures for the Sheila White Photography Show, the 75th Anniversary Alumni Exhibition and the L. M. Asher Family Collection. It is anticipated that an appropriate catalog will be published in connection with Art Since 1889.

PERMANENT COLLECTION

The modest permanent collection of the University, due to lack of display and storage facilities, has heretofore been scattered throughout the University campus. During the summer of 1963 Mrs. Culberson, of the Gallery staff, located and cataloged the major portion of the works owned by the University. As soon as the Art Gallery opened, efforts were made to contact people who were potential donors to the University collection. As a result, works valued in excess of $50,000 have been given to the University. A detailed list of gifts has been submitted to the proper office by the Art Gallery but it is appropriate to list the major gifts as follows:

Mrs. Julius Rohlshoven's gift of twenty-three canvases by her late husband.

Mrs. June C. Wayne, Los Angeles, gave a collection of fifty 19th and 20th century graphic works.

Mrs. B. J. O. Nordfeldt of New Jersey has given the University two major oil paintings, a large selection of drawings and watercolors of New Mexico by B. J. O. Nordfeldt.

Mr. Andrew Dasburg, Taos, generously gave an important early drawing by Kenneth M. Adams, a watercolor by Cady Wells and a watercolor by Willard Nash.

Mrs. Rebecca James, Taos, has given significant Paul Strand photographs of New Mexico and Mexico themes.

Mrs. Gene Kloss gave a selection of her own prints.
Dr. Joseph Fleck, Jr. gave the University his father's painting of TWO SPANISH MUSICIANS, a work included in the opening exhibition.

Kenneth M. Adams' 1932 painting of BENEFISA TAFOYA was given by International Business Machines Corporation of New York City.

Anonymous Taos residents gave the University a large sculptural piece by Malcolm Brown, who was included in our 75th Anniversary Alumni Exhibition.

The students in the Department of Art purchased and donated a handsome woven rug by the late Salli Moran.

In addition to the gifts given outright we are fortunate to have on extended loan SANTA FE HILLS by Leon Kroll, four paintings by the late B. J. O. Nordfeldt, and a large 18th century school of Cuzco painting.

PUBLIC SERVICE

During the past year the Director has given a three month course of instruction covering the general concepts of contemporary art to a select group of Albuquerque Junior League ladies. From the twenty members who took this course, eight have been chosen to act as Gallery Docents and are now available for discussion of the various shows with group tours which request their services. Such tours have been arranged by Albuquerque teachers and their students, groups traveling through the city and special campus visitors.
I. GENERAL DEPARTMENTAL INFORMATION

A. SIGNIFICANT ACHIEVEMENTS DURING THE ACADEMIC YEAR, 1963-64.

Perhaps the most significant development in the Department of Drama during the past year has been the fact that enrollments in our technical courses, which are usually at a bare minimum, have increased to overflowing. This, together with the sharp rise in the department's over-all enrollment pattern (over 32%), indicates that in the near future we may be able to place on a yearly schedule basis many courses which, because of low enrollments, have been offered only on alternate years. Such an arrangement would allow major improvements in proportioning the production work loads of staff members, i.e. at the present time certain staff members must assume responsibility for the scenery, costumes and make-up for all productions during each year and must do all the requisite work even though the related subject matter "courses" may not be currently offered.

During the past year the department has renovated and adapted the space which it inherited from the Industrial Arts Department: lumber racks, a tool room and a scenery
wash-rack have been built adjacent to the new shop area; a loading door has been cut in the back stage wall of Rodey Hall so that large set pieces of scenery can be transported directly to the stage without dismantling.

On April 16th the department played host to Dr. Lee Norvelle, professor emeritus of Theatre Arts at Indiana University, past president of the National Theatre Conference and the American Educational Theatre Association. During his visit to our campus Dr. Norvelle presented a lecture to our drama students entitled "Stanislavski Revisited."

B. SIGNIFICANT PLANS AND RECOMMENDATIONS FOR THE NEAR FUTURE.

With the construction date for Phase II of the Fine Arts Center now set in the very indefinite future, it becomes more and more evident that some provision must be made for the repair and renovation of the department's present housing. It is strongly urged that capital outlay be allocated toward this purpose immediately. Rodey Theatre in particular cannot continue into the indefinite future without some bit of paint, plaster and a touch of lustre.

During the coming year the Department of Drama will confer with the College Dean and with the chairman of the Department of Art concerning the possibility of a "shared" instructor qualified to teach courses in both departments. The Department of Drama staff at the present time carries an over-load of teaching hours but does not have sufficient
needs to warrant the employment of a full-time instructor. It would be a definite step forward if the Department of Drama's courses in scene design and costume design could be taught by an instructor "shared" with the Art Department.

C. **APPOINTMENTS TO STAFF**
   
   NONE.

D. **SEPARATIONS FROM STAFF**
   
   NONE.

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

1. **Advanced study.**
   
   None.

2. **Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period.**
   
   MCMULLAN, Bruce W.
   

   YELL, Joseph E., Jr.
   
   He is producer-director of the Garrett County Playhouse (Oakland, Maryland). Produced 8 plays in an 8 week season. Last year he employed three UNM drama students.

3. **New Scholastic Honors, fellowships, etc.**
   
   None.

4. **Publications.**
   
   None.
5. Other research projects or creative work in progress or completed during period.

For research and creative work see part II, item 7: Theatre Production.

6. Activities in learned and professional societies.

MCMULLAN, Bruce W.
Treasurer; UNM Chapter American Association of University Professors.

SNAPP, Edwin
Member of: New Mexico Educational Association, American Educational Theatre Association; National Theatre Conference. He is the New Mexico representative, Regional Committee for the National University Theatre Festival.

YELL, Joseph E., Jr.
Member of: New Mexico Educational Association; American Association of University Professors.

7. Other professional activities.

The Department of Drama again offered theatre-goers of both the student body and community a varied and stimulating theatre program:

MAJOR BARBARA by George Bernard Shaw, directed by Edwin Snapp; TOYS IN THE ATTIC by Lillian Hellman, directed by Gene Yell; THE FIREBUGS by Max Frisch, directed by Edwin Snapp; and William Shakespeare's A MIDSUMMER NIGHT'S
DREAM, directed by Gene Yell.

Settings for the plays were designed by Gene Yell, Veronica McMullan and Gerald Holtzclaw; lighting, costumes and make-up were provided by Nadene Blackburn; all technical aspects of the physical production were in charge of Bruce McMullan. Each of the productions ran for seven performances.

The Student Workshop Theatre, under the supervision of Edwin Snapp presented two bills of one-act plays which included: IMPROMPTU by Tad Mosel, directed by Peggy Sullivan; Anton Chekov's MARRIAGE PROPOSAL, directed by Richard Leonard; HELLO, OUT THERE by William Saroyan, directed by Scott McCoy; Edward Albee's THE SANDBOX, directed by Cather MacCallum; THE BLINDE MEN by Michel de Ghelderode, directed by Irene-Aimee Depke; THE POOL BY THE DRAGON GATE by E.G. Andrews, directed by Kathleen Phillips; and Eugene Ionesco's THE BALD SOPRANO, directed by Susan Jay.

The lighting for the plays was supervised by Nadene Blackburn. Each of the productions ran for three performances in the Commedia Theatre.

In addition, the students of Mr. Snapp's Advanced Rehearsal and Performance class presented a bill of one-act plays to the students of the Drama Department: THE STRONGER by August Strindberg, directed by Scott McCoy; THE PING PONG PLAYERS by William Saroyan, directed by Scott McCoy; and Luigi Pirandello's THE MAN WITH THE FLOWER IN
HIS MOUTH, directed by Cather MacCallum.

The lighting for this production was designed by Susan Gregg, under the supervision of Nadene Blackburn.

8. Non-teaching University service.

BLACKBURN, Nadene
Advisor for Drama Department students. Served on the Advisory Council for the College of Fine Arts.

MCMULLAN, Bruce W.
Advisor for University College Students
Member of: UNM Cultural Committee; UNM Physical Arrangements and Decorations Committee for 75th Anniversary; Shirtsleeves Session KNME-TV; judge Stunt Night; Visiting Critic, UNM Department of Architecture.

SNAPP, Edwin
Served on Advisory Council for the College of Fine Arts. Advisor for University College and Department of Drama students. University United Fund Committee. Fine Arts Committee, 75th Anniversary Celebration Committee.


YELL, Joseph E., Jr.
Coached Shriner's Clown Unit and produced entertainment for Crippled Children's Horse Show.


None.
The Report of the Department of Music  
July 1, 1963 - June 30, 1964  
Joseph Blankenship, Chairman

I. General departmental information

A. Significant achievements during the academic year, 1963-64.

The faculty of the Department of Music has been studying curriculum revision, new course offerings and the course renumbering system adopted by the University. This year has seen the addition of a new degree program in Applied Music Pedagogy. Two new courses, Music 388-389, Music Pedagogy, were necessarily added to the course offerings. This new degree program and the new courses will be offered for the first time during 1964-65.

During this academic year we again experienced difficulty in meeting the demand for instruction in applied music. It was necessary to refuse instruction to a number of students which exceeded what would amount to a full faculty teaching load. Other students were discouraged from applying for this instruction, therefore, there is no record of their requests. It should be noted that applied music instruction is necessary for music major degree programs, therefore, enrollment increases are restricted somewhat by instructional deficiencies in this area even though it is possible to absorb more students in some class situations.

The Department of Music continues to present a large number of recitals and concerts throughout the year for the campus community and in other areas of the state of New Mexico. Programs were presented by faculty and student individual performers, guest artists and the
following organized large ensemble groups: University Chorus, Dance Workshop, Opera Workshop, Symphony Orchestra, University Concert Band, Chamber Singers, A Cappella Choir, Youth Symphony Orchestra, Junior Orchestra, Brass Sextet, Woodwind Quintet, String Quartet, and other chamber music groups.

Considerable improvement has been accomplished in the choral music program offered by the department. Dr. Douglas McEwen is now completing his first year as director of choral activities and he has had a successful year with the choral groups which was climaxed in May by the University Chorus performing the Verdi Requiem in Johnson Gymnasium with the University Orchestra.

The A Cappella Choir and the Concert Band furnished the musical part of the program on the convocation in February in celebration of the 75th Anniversary of The University of New Mexico. It is gratifying that we now have such musically mature organizations as these presented at such a significant time.

In addition to the regular schedule of classes and the musical performances referred to above, the Department of Music sponsored the following events on campus:

Dance Recital-Demonstration by Sahomi Tachibana
Oboe Soloist, Evelyn Rothwell (Lady Barbirolli), as soloist with the UNM Orchestra
Lecture on Indian Dance by Gertrude Kurath from Michigan
Bassoon Clinic conducted by Professor James Thornton
Saxophone Clinic conducted by Professor Fred Hempke from Northwestern University.
Music Performance Awards Auditions
MENC Student Chapter programs
Piano Workshop conducted by Dr. Robert Pace of Columbia University
Small Ensemble Music Reading Workshop
Choral Music Reading Workshop
Band Music Reading Workshop
Youth Symphony Orchestra in cooperation with the Albuquerque Public Schools
Junior Orchestra in cooperation with the Albuquerque Public Schools
UNM State String Clinic directed by Dr. Jack Stephenson with Frederick Muller from Cleveland, Ohio
Junior High School Music Festival
Senior High School Music Festival

Further departmental responsibilities included the hosting of the following events on campus:

State Convention of the New Mexico Music Educators Association
All-State Music Festival
Sigma Alpha Iota State Day
Phi Mu Alpha Sinfonia Province Workshop
Band Day
State High School Solo and Ensemble Festival
Albuquerque Civic Symphony Rehearsals
New Mexico Chamber Orchestra
New Mexico Wind Ensemble
New Mexico Music Educators Association District 7 Solo and Ensemble Festival
New Mexico Music Teachers Association Young Artist Auditions
Santa Fe Opera Auditions
Stillman Kelley Auditions
Federated Music Clubs State Festival
Four-State Dance Workshop
Convention for the Southwest Music Teachers National Association

Negotiations have now been completed for the purchase of new band uniforms for the marching band. This was made possible through funds provided by the cooperation of the associated student body and the University administration. The new uniforms will greatly enhance the appearance of the band and they should be available for the opening of the football season in Semester I, 1964.
One of the most significant events of this year was the occupying of the new music facilities in the new Fine Arts Center. This event has been looked forward to for many years. Students, faculty and campus visitors are extremely complimentary and appreciative of this fine new building and its furnishings. While some finishing work remains to be done, it should be recognized that the new Fine Arts Center accomplishes the purposes for which it was built.

B. Significant plans and recommendations for the near future

Continued study and planning is in progress for the various music degree programs. At this time a faculty committee is working on recommendations for extensive revisions in the music education degree program. According to progress reports from this committee, if the recommendations are accepted, they could result in extensive revisions in all music offerings. The music faculty is hopeful of improving the courses and degrees offered so that student time may be more efficiently utilized and all programs will realize a higher standard of achievement.

Explorations are still in progress toward offering work for a degree in music therapy. Several undergraduate students have expressed a desire to transfer to other schools now offering degree programs in music therapy. One of this year's graduates will be attending Florida State University next year with a graduate assistantship in music therapy.

A committee is currently at work on recommendations for developing a doctoral program in music and music education. The pressures of requests for doctoral programs make it necessary that this work be accelerated in the near future.
Consideration is being given to the reconstructing of classes in group piano. It may be desirable to have more teacher contact hours and offer additional semesters in group piano instruction. These changes would enable the department to offer instruction to more students and perhaps achieve greater efficiency in applied music teaching.

With the completion of good recording and listening equipment now being installed, some further problems are recognized. It is anticipated that the demands for service and technical help will require setting up business procedures for handling this area of operation. Preliminary steps have already been taken toward establishing operating procedures.

C. Appointments to staff

Mr. Dale Kempter has been appointed as assistant professor of music beginning September, 1964. Mr. Robert McRae has been appointed sound technician, one-half time, beginning July 1, 1964. Mr. Paul Stehwien has been appointed instrument technician, one-half time, beginning July 1, 1964. Mr. Wesley Selby was appointed temporary part-time organ instructor beginning February, 1964. Mr. George DeFoe served from September to June as temporary part-time voice instructor. Mrs. Lois McLeod served from September to June as a temporary part-time accompanist.

D. Separations from staff

Mr. Joseph Leonard terminated services as temporary part-time organ instructor in January, 1964.
II. Composite of information requested on individual biographical supplements

1. Advanced study

In July, 1963, George Robert attended the Frances Clark Piano Workshop. He also attended the Robert Pace Piano Workshop in May, 1964.

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


Following a sabbatical leave, Walter Keller travelled in Europe from June 1 to August 2. He visited Switzerland, Northern Italy, Austria, Germany, Denmark, Holland, Belgium, England, and France.

Until August, 1963, Douglas McEwen was Director of Choral Activities at Colorado State College in Greeley, Colorado.

Jane Snow was on sabbatical during Semester II, 1963-64. Her travel included Israel, Lebanon, Jordan, Greece, Austria, Germany, Italy, Holland, France, and New York City.

3. New scholastic honors, fellowships, etc.

None.

4. Publications during the period

"Music as a Subject" in the New Mexico Musician, October, 1963, Vol. XI, No. 1, and "The Quality of the Child Voice" in the New Mexico Musician, January, 1964, Vol. XI, No. 2 were articles written by John Batcheller during the year.
Joseph Blankenship was editor of the woodwind column for *Meyer's Band News*. His article, "Tuning Problems" appeared in the Spring-Summer issue of *Meyer's Band News*.


William Rhoads had several publications during the year which are listed below:

- *Prelude and Fugue in E Minor (The Cathedral)* J.S. Bach
  - transcribed in F minor for Band: Summy Birchard, 1964
- *18 Selected Etudes for Alto and Bass Clarinet* Southern Music, 1964
- *Baermann for the Low Clarinets* Southern Music, 1964

Jack Stephenson was editor of the *New Mexico Musician*. Much of the magazine was written by Dr. Stephenson and all was edited by him. Vol. XI, No. 1 contained 28 pages, No. 2 contained 36 pages, and No. 3, 32 pages.

Southern Music Company of San Antonio, Texas published an arrangement of Ferling, "Duo Concertantes" for two bassoons for James Thornton.

James Whitlow feels that there is a strong possibility of his *Handbook on Brass Instruments* being published this fall by Holt, Rinehart and Winston.

5. Other research projects or creative work in progress or completed during period

Walter Keller is preparing a series of Cantatas by Alessandro Scarlatti for modern performance: editing and realizing figured basses.
A syllabus for "History and Pedagogy of Theory" is in progress by Donald McRae. He is also working on "The Requiem Mass in the Baroque Period" (doctoral dissertation).

A textbook on musical form is in progress by Hugh Miller. An article on Sculptography is to be published in the summer, 1964, in *Art In America*. He received a $300 grant from Wenner-Grenn Foundation for sound movie filming the Tewa dances in New Mexico.

William Seymour has a textbook for use in adult piano classes still in progress.

Jack Stephenson worked with the State Department of Education on formulation of policy for Fine Arts in the public schools. This will be continued in the summer of 1964. They are investigating means for certifying the accrediting of the private music teacher in New Mexico.

Three musical works by James Thornton are under contract. He has applied for a grant to make a reduction of Beethoven's "Octet" for winds to a woodwind quintet. The score is seventy-five per cent complete.

James Whitlow has been working on various projects in the field of Music Appreciation.

6. Activities in learned and professional societies

John Batcheller was a member of the Music Educators National Conference and the National Association of Teachers of Singing.

Joseph Blankenship was a member of the State Certification and Legislation Committee for NASM, NASM Examiner for Arizona State University, Governor of Province 31 of Phi Mu Alpha, Phi Mu Alpha National Nominating
Committee, National Executive Committee of Phi Mu Alpha, President of
the Southwest Music Teachers National Association, Laws & Legislation
Committee, SWMTNA, and Vice President of Pi Kappa Lambda. He
attended the following meetings and conventions:

Music Educators National Conference convention in Philadelphia
All-State Music Festival held on UNM campus, January, 1964.
National Assoc. of Schools of Music convention
Conducted Province Workshop, Phi Mu Alpha, UNM campus
Phi Mu Alpha national convention in Philadelphia
Installed Phi Mu Alpha Chapter at New Mexico State University
SWMTNA convention, Albuquerque, May, 1964
Convention of National Assoc. of Music Executives of State
Universities in October, Tallahassee, Florida

Walter Keller served as chairman of the committee on equipment
for the SWMTNA convention, May 1-3 in Albuquerque. He was a member
of the panel on "Junior Piano" for the same convention.

Douglas McEwen attended the state conventions of the Colorado
Music Educators and the Southwestern regional convention of Music
Teachers National Association.

The secretary of Phi Kappa Phi for 1964-65 is Donald McRae.

Hugh Miller was a panel member for a discussion on electronic
music and other avant-garde techniques in contemporary music at the

William Rhoads was the guest conductor with the Houston University
Band. He attended the American Bandmasters Association National meeting
in San Antonio, Texas.

George Robert served as President of Central Chapter, New Mexico
Music Teachers Association. He attended the convention of SWMTNA.

Morton Schoenfeld participated in the faculty program of chamber
music for the SWMTNA convention.
William Seymour was a member of Music Educators National Conference, Music Teachers National Association, and National Association of College Wind and Percussion Instructors. He was recently elected President of the Albuquerque Music Teachers Association for 1964-65.

Until leaving on a sabbatical leave in February, Jane Snow served as chairman of Opera for the SWMTNA convention.

Jack Stephenson has received a six-year appointment to the editorial board for the national publication, "Journal of Research in Music Education." He is also program director for the local chapter of MTNA for 1964-65.

James Thornton is chairman, state division, National Association of College Wind and Percussion Instructors and a member of the Board of Directors, District 7, New Mexico Music Educators Association.

7. Other professional activities

The following is a list of professional activities of John Batcheller:


Lecture-demonstration: Before the New Mexico Art Association at the 1963 New Mexico State Teachers Convention, Student Union, Albuquerque, New Mexico, "Correlating the Music Listening Program with Art", October 24, 1963.

Lecture: "The Music Program in Grades one, two and three" before the Elementary Practice Teaching Seminar, UNM, November 14, 1963.

Lecture: "Opera" before the Kappa Kappa Gamma sorority, 221 Univ., N.E. Albuquerque, November 18, 1963.

School Survey: A survey of the music program in the Santa Fe Public Schools--Junior High School, January 8, 1964, Santa Fe.


Adjudicator: North Central District of the New Mexico Music Educators Assoc., Los Alamos, New Mexico, March 21, 1964.


Minister of Music at Immanuel Presbyterian Church, Albuquerque.

Joseph Blankenship was an adjudicator for a music festival in Aztec, New Mexico, played twelve concerts for Young Audiences with the New Mexico Woodwind Quintet, two faculty recitals with the New Mexico Woodwind Quintet, four concerts with the New Mexico Chamber Orchestra, and four concerts with the Albuquerque Wind Ensemble.

Ten public school programs were presented by the Albuquerque Youth Symphony conducted by Kurt Frederick. The Youth Symphony also presented programs for the Rotary and Kiwanis Clubs, three concerts in Albuquerque and concerts in Grants and Gallup. Dr. Frederick served as judge and clinician in Los Alamos, Tucson, Flagstaff and Lubbock. He conducted the concerts of the UNM Orchestra Series, the performances of the UNM Opera Workshop, a concert of a UNM instrumental group in Santa Fe, three performances of the Dance Workshop, four concerts of the New Mexico Chamber Orchestra, was chairman of the string division of the MTNA convention in Albuquerque, conducted a string ensemble at one meeting of this convention, and played with the June Music Festival Chamber Music Group.

Walter Keller gave the following lecture-demonstrations during the year: French Gothic Music, November, for Mu Phi Epsilon; Scarlatti Cantatas, January, for SAI Patronesses: Spatial Concepts in...
Baroque Music, March, for Albuquerque Music Club. He participated in recitals for Alliance Francaise, Faculty Chamber Music, Mu Phi, English Music, and served as a piano adjudicator for the Southeast New Mexico Music Educators Association festival in Portales.

Guest conducting, choral clinician and guest lecturing was done by Douglas McEwen at the following events:

- Southern Idaho Chorus and Orchestra Festival
- Southeastern District Music Festival, Wyoming
- Southern Oklahoma Choral Festival
- Choral clinician for state convention of Colorado Music Educators Assoc., Denver
- Odessa College Choral Clinic, Texas
- Large Group Choral Festival, Las Cruces, New Mexico
- Guest adjudicator for the state of Colorado
- Large Group Choral Festival, Portales, New Mexico
- Panelist for the Music Teachers National Assoc. Southwestern Regional Convention
- Guest conductor for Jefferson, Van Buren and Wilson Junior High Schools Choral Festivals, Albuquerque
- Guest conductor of Empire Junior College Choral Festival, Nebraska
- Guest lecturer in music, Valley High School's Career Day
- Guest conductor at rehearsal sessions of Manzano, Highland, Sandia, Valley, and Rio Grande High Schools
- Large Group Choral Festival, Tucson, Arizona

His concerts and solo appearances are listed below:

- TV show with the UNM Chamber Singers, KNME
- A Cappella Choir appearance at the 75th Anniversary Convocation
- Chamber Singers in concert, November 10, March 10
- A Cappella Choir concert tour to Truth or Consequences, Las Cruces, Alamogordo, Roswell and Artesia
- A Cappella Choir Concert, Fine Arts Center Recital Hall, April 20
- A Cappella Choir concert, Southwestern Regional Convention of the Music Teachers National Assoc.
- Soloist and University Chorus conductor for the performance of the Verdi Requiem
- Conductor, University Chorus and New Mexico Chamber Orchestra in the performance of "Messa de Minuit" by Charpentier
- Departmental assembly with the Chamber Singers, March 26

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Donald McRae gave TV lectures for Humanities, was TV coordinator for Sounds of Music, Semester I, was tenor soloist for Jewish High Holidays, participated in Jewish Music Week, was soloist for the First Congregational Church, Palm Sunday Vespers, special Christmas Vespers, Mu Phi Epsilon British Music Program, Faculty Music Recital, MTNA Southwest District Recital. He adjudicated for the Aztec District Festival, Central District Festival, Young Artists District Auditions, All-State Auditions.

Since returning from sabbatical travel in South Pacific in March, 1963, Hugh Miller has given twelve lectures and film presentations of Polynesian dancing for various local groups and on campus.

William Rhoads was the guest clinician for the Kansas State Teachers College Music Camp, Emporia, Kansas for one week; Hobbs Public Schools, Hobbs, New Mexico, one week; UNM Summer Music Festival, two weeks, Hobbs Junior High Schools, three days. He was the guest conductor for Region 16 Honor Band, Perryton, Texas, December 6-7, 1963; Region 1 Honor Band, Wichita Falls, Texas, January 10-11, 1964; Region 11 Honor Band, Lubbock, Texas, January 24-25, 1964; Washington All-State Band, Yakima, Washington, February 20, 21, 22, 1964; Alamogordo High School Band, March 10, 1964; Houston University Band, March 6, 1964. He was an adjudicator for New Mexico State Marching Contest, November 2, 1963, Colorado Instrumental Contest, April 8, 9, 10, 1964, Region Contest, Brownsville, Texas, May 1, 2, 1964, and "Six Flags Over Texas" Invitational Band Contest, May 15, 16, 1964. He was clarinetist with the
New Mexico Woodwind Quintet for 12 concerts with Young Audiences Assoc.
and two faculty recitals, four concerts with the New Mexico Chamber
Orchestra, four concerts with the Albuquerque Wind Ensemble (which
he founded) and conducted three major campus concerts with the University
Concert Band and the UNM Concert Band participation in the 75th
Anniversary exercises.

In July, 1963, George Robert presented a Chamber Music Recital at
UNM. At the New Mexico Music Teachers Association Social in September,
he presented a group of duo-piano music with Morton Schoenfeld and
a group of viola-piano duets with Maurice Bonney. He was the accompanist
for Evelyn Rothwell in an oboe lecture-recital in October and also
accompanied Mauricio Fuks, violinist, at concerts at UNM and in Santa Fe.
In April he gave a lecture-recital for the Women's Association of the
Albuquerque Civic Symphony Orchestra, was soloist in Mozart Piano
Concerto in G Major, K. 453, with the Civic Symphony at the Civic Audi-
torium, performed Mozart Sonata for Two Pianos with Morton Schoenfeld
at a Faculty Chamber Music Recital, and also appeared with Mr. Schoenfeld
at the preconvention concert for SWMTNA. He was in charge of the Student
Affiliate Young Artists recital May 3, 1964.

Morton Schoenfeld was accompanist in community concerts in Denver,
Colorado for Ingrid Bjoner, soprano; in Carlsbad, New Mexico for Heidi
Krall, mezzo-soprano; and in Midland, Texas for John Craig, tenor.

William Seymour served as adjudicator on three occasions for the
New Mexico Music Teachers Association, was a member of the New Mexico
All-State Auditioning Team, served as a local chairman for the Southwestern
Division MTNA Convention, May 1-3, 1964, and was trombonist with the New Mexico Brass Quartet.

Jane Snow was soloist with the June Music Festival, June, 1963, soloist with the Albuquerque Civic Symphony in their production of Faust, October, 1963, and directed the Opera Workshop production of the Magic Flute, January, 1964.

Jack Stephenson appeared in two performances on the cello in a Baroque ensemble. He was co-director of NMMEA All-State Music Clinic, assistant program chairman, SWMTNA Division meeting, faculty director of UNM Seventh Annual String Clinic, First Vice-President SWMENC. He made an address to the State Board of Education on behalf of the Fine Arts in the public school curriculum. He assisted with the evaluation of Grants Public Schools and evaluated secondary music in the Los Alamos Schools.

James Thornton appeared in concerts with the New Mexico Woodwind Quintet for Young Audiences, Inc., five concerts with the New Mexico Chamber Orchestra, four concerts with the newly formed New Mexico Wind Ensemble, served as clinician and adjudicator for the state musical organizations, presented a TV program in December and participated in the Faculty Recital in April.

Elizabeth Waters presented Children's Rhythms Demonstration at the Teacher's Convention, did the choreography of Carnival of Animals for the Civic Symphony, presented a Christmas television program, Religions of the World for a music assembly, campus concert by Dance Workshop, dance symposium at UNM, Earth-Trapped at a Santa Fe Concert and the Hanging of the Greens.
James Whitlow appeared in over twenty programs this season. He was featured soloist with several musical groups and schools, leader of the New Mexico Brass Ensemble, organized a Faculty Brass Quartet which was approved for Young Audience concerts, served as clinician for the Northeastern District (New Mexico) Band Festival and adjudicated in all areas of the state.

8. Non-teaching University service

John Batcheller was secretary of the Department of Music faculty, faculty advisor of the student chapter no. 438 of Music Educators National Conference, member of the Curriculum Committee in the College of Education and a member of the Curriculum Revision Committee of the Department of Music.

In addition to his duties as chairman of the Department of Music, Joseph Blankenship also served on the College of Fine Arts Advisory Committee, was faculty advisor for graduate students in music, was a member of the Executive Committee for the 75th Anniversary, Sub-Committee on Cultural Events for the 75th Anniversary, Fine Arts Dedication Committee, University Administrative Committee, Advisory Committee on Teacher Education, Advisor of the Student FM Radio Committee, Advisor of the Student Parachute Club, and the Committee for the State Solo and Ensemble Festival.

Walter Keller is a member of the Department of Music Administrative Committee, the 75th Anniversary Sub-Committee on Cultural Events, and the Library Sub-Committee on Humanities.

High-school visitation to Las Cruces, Alamogordo, Artesia, Roswell and Albuquerque was done by Donald McRae. He was also a member of the
Policy Committee, Committee on the University and College of Fine Arts special advisor.

William Rhoads is on the Summer Session Committee and is a faculty advisor.

George Robert was chairman of the Department of Music Scholarship Committee and was a member of the University Registration Committee.

Morton Schoenfeld served on the General Honors Council and the Clayton-Barber Scholarship Committee.

William Seymour served on The University of New Mexico Department of Music Administrative Committee.

The faculty advisor for Sigma Alpha Iota was Jane Snow. She was also a member of the Department of Music Scholarship Committee.

Jack R. Stephenson served on the Department of Music Administrative Committee, the College of Fine Arts Administrative Committee, Doctoral Program Committee, was chairman of the Music Education Curriculum Committee, and Secretary of Pi Kappa Lambda. He also served on the Board of Directors for the Albuquerque Youth Symphony and was an advisor for 34 students.

James Thornton was advisor for University College, a member of the Administrative Committee for the Department of Music, UNM Cultural Committee, and Music Education Revision Committee.

The faculty sponsor of Phi Mu Alpha was James Whitlow. He gave lectures to various Women's Clubs and sororities on music.

9. Public service

John Batcheller was a member of the Board of Directors of the All
Faiths Receiving Home for Children, the Advisory Board for the Santa Fe Opera Guild and a member of the Board of Directors of the Albuquerque Community Concert Association.

Joseph Blankenship was on the Advisory Board of the Albuquerque Opera Guild, a Major in the Civil Air Patrol, senior training, New Mexico Wing Staff, on the Board of Directors, Albuquerque Civic Symphony, Chairman of the Board of Directors, Albuquerque Youth Symphony, Vice President of the Crossroads Flying Club, on the Board of Directors for the Community Concert Association, and was elected "Boss of the Year", Zia Chapter, American Business Women's Association.

George Robert appeared as occasional soloist at the First Unitarian Church.

President of Albuquerque Children's Theatre was Jack Stephenson. He was on the Adult Committee for the Boy Scouts, Troop 86 and served as Choir Director, St. Charles Church.

James Thornton was on the music committee of a local church.
The Report of the General Honors Program

July 1, 1963 — June 30, 1964

Dudley Wynn, Director

The General Honors program completed on June 30, 1964, the third year of operation under a three-year ($75,000) grant from the Carnegie Corporation of New York. It is gratifying to report that the program will be continued and will have hereafter a regular place in the University's budget. The director of the program, the members of the Honors Council, and interested students and faculty members are grateful to the University administration for making possible the continuance of the Honors program without any substantial lessening of support to any of its important phases. With the official allocation of approximately three thousand square feet of space to the Honors program in a section of the present library building after the completion of the addition to the library, General Honors can be looked upon as a more or less permanent feature of the University landscape.

Honors programs have become quite the fashion in state colleges and universities, but the program at The University of New Mexico, because it has been in operation for some time and because of the grant from the Carnegie Corporation, has been looked upon as a kind of pilot effort. The Honors office is still receiving many requests from other institutions for information about our program. Among visitors to the campus to observe our program have been representatives of such diverse institutions as the Milwaukee branch of the
University of Wisconsin, the Santa Barbara unit of the University of California, and Eastern New Mexico University. The director still serves on the executive committee of the Inter-University Committee on the Superior Student, an organization designed to serve a clearinghouse function for Honors programs; he will also contribute a chapter to a book in the Carnegie Series on Education, Honors and the American Higher Educational System, to be published by McGraw-Hill in 1965. The director has also served within the past year and a half as consultant or speaker at meetings related to Honors programs at the University of Oklahoma and Eastern New Mexico University.

Because the Honors program at this point completes three years of operation under an outside grant, it is appropriate to summarize what the director and the Honors Council consider the successful and the less successful features of the program.

Successful Features

It is our opinion that the following features of the General Honors program at the University of New Mexico have been reasonably successful:

1. The scheme of "apprenticing" senior Honors students to their major departments for research, for limited teaching under supervision (laboratory and quiz sections), for a limited amount of routine work within the department.

This plan has coordinated extremely well with the Three-Year Master's Degree program of the Ford Foundation. Together, the two programs have been excellent devices for the recruiting of college teachers and have probably been instrumental in the excellent record of University
of New Mexico students in Woodrow Wilson Fellowship (and other) competition.

2. The plan under which one or two senior Honors students each semester, instead of being assigned to their major department (as in 1 above), are teamed with a regular faculty instructor in a section of freshman Honors colloquium.

Our senior Honors students are eager to get this assignment; the freshman Honors students feel that a teaching team of one regular faculty man and one student is a little less formidable, ordinarily, than a team of two faculty members (the normal situation in a freshman colloquium). We definitely plan to continue this practice.

3. The sequence of course offerings in General Honors. Freshmen take a colloquium—fifteen students per section, two instructors or one instructor and one senior Honors student per section, a general reading list, a paper a week. Sophomores take a seminar—twelve to fifteen students a section, one instructor, a topic chosen by the instructor, which may be as specific or narrow as he wishes but which must be treated in a manner appropriate to non-specialized students. Each semester there is at least one section of a seminar in the three general areas of humanities, science, social science; the student takes the two that lie outside his chosen field of specialization. (See list of sophomore seminar topics below.) Juniors take a course entitled Some Landmarks in the Social-Intellectual History of the West. The first semester deals with literature and philosophy mainly, and is taught by two members of the Department of English. The second semester, taught by an art historian
and a historian of science (formerly of the Physics department), re-
surveys Western culture in these aspects. The colloquium for senior
Honors students is again general, with better defined topics than in
the freshman colloquium and with the topics relating to contemporary
issues.

We believe that the progression from the wide-ranging interests
of the freshman year to the more narrow topics of the sophomore year
is logical and gives students a sense of the immense range of man's
intellectual endeavors. The cultural-historical emphasis in the
junior year gives a solider background to the students' attempts to
think clearly on contemporary issues in the Senior year. At the same
time, students who do not go the whole route in Honors have a consider-
able variety of experience in the program if they take as much as any
three semesters of it.

4. The attempt to make the program an all-University program.
By "all-University" we mean that the program is (1) open to qualified
students from any undergraduate college of the University and (2) is
staffed by faculty of colleges other than the liberal arts college.
It is true that liberal arts students dominate the scene and that the
other undergraduate colleges are not proportionately represented.
Nevertheless, one or more students have graduated with General Honors
in the last four or five years from each of the following colleges:
Nursing, Fine Arts, Engineering. Staff members from the following
colleges outside Arts and Sciences have participated in instruction
in the program, mostly in freshman colloquia or sophomore seminars:
Education, Engineering, Fine Arts, Law, Medicine (next year). An all-
University program of this sort has to be kept "general" if it is to
make its proper contribution to the liberal education of students from
undergraduate professional colleges. There is no conflict between this
conception of Honors as a broadening influence upon the student and the
conception that Honors is an intensification of the student's specialized
or professional studies, although at this institution the "general"
Honors program is perhaps further developed than are the departmental
or college specialized Honors programs.

Less Successful Features

1. Counseling. We have not been as successful as we could wish
in getting students (especially freshmen) to take advantage of counsel-
ing services offered to them. Nor do faculty members, on the whole,
take these responsibilities as seriously as they might. Getting stu-
dents into challenging regular courses should play a large role in any
drive towards excellence. Other institutions with Honors programs re-
port this same difficulty. It is, however, not just a problem in Honors;
or, rather, the problem of counseling in Honors is part of the total and
general problem of the counseling of undergraduates.

2. The high drop-out rate. The number of students with top high
school grades and excellent scores on college entrance tests who are
ineligible for Honors at the end of the freshman year is most discour-
aging. The reasons for their ineligibility to continue beyond the
freshman year (practically any student who wishes it is given a second
chance in the second semester of the freshman year) are as follows:
1. Inadequate grades in Honors and regular courses. 2. Failure to develop a sufficient sense of responsibility. 3. Failure to participate in discussion or to make any original contribution orally or in writing.

In the decision to continue the General Honors program, however, it is clear that students, faculty members, and administrative officers believe strongly that the successful features greatly outweigh the shortcomings. In other words, the program is now well beyond the experimental stage.

Relationship of General to Departmental Honors

Students at the University of New Mexico can graduate with General Honors or with departmental Honors or both. Many departments (and undergraduate colleges), however, have not developed departmental or specialized junior-senior Honors programs for their majors. This function is now being served fairly well by the Three-Year Master's Degree Program sponsored by the Ford Foundation, which has two more years to run. At the termination of this grant, it is entirely possible that the Career Scholars' Program, as we call it, will develop into a much augmented departmental Honors program which will be correlated with the General Honors program.

Additional Information

The following students, representing three different colleges (Arts and Sciences, Engineering, Fine Arts) and an excellent variety of departments within the liberal arts college, graduated with General Honors in 1964:
Robert R. Bacalski, Spanish (Magna cum laude)
Dorothy Ann Corner, French (Magna cum laude)
Kathleen S. Kagan, Biology (Cum laude)
Rosalind W. Kellogg, Mathematics and Anthropology (Cum laude)
Robert C. Morris, History (Magna cum laude)
Mary E. Phelan, Physics and Mathematics (Cum laude)
Vicki D. Scott, English (Cum laude)
Patricia R. Shanklin, Music (Cum laude)
Genevieve R. Slagle, Psychology (Cum laude)
Robert W. Slagle, Psychology (Magna cum laude)
Sharon Smart, Spanish (Cum laude)
Charlie R. Steen, History (Cum laude)
Nancy J. Stopper, Anthropology (Cum laude)
Joel B. Stout, Architecture (Magna cum laude)
Haven B. Tobias, History (Magna cum laude)
Genevieve Townsend, Comparative Literature (Cum laude)
John L. Wham, Electrical Engineering (Cum laude)
Sharon L. White, History (Cum laude)

Of the eighteen students listed above, four won Woodrow Wilson fellowships. Three of the students in the list graduated also with departmental honors.

In Semester I, 1963-64, enrollments in General Honors offerings by classes were as follows:

Freshman: 77        Junior: 23
Sophomore: 54       Senior: 21

In Semester II, 1963-64, enrollments in General Honors offerings by classes were as follows:

Freshman: 81        Junior: 20
Sophomore: 43       Senior: 15

The following senior Honors students in 1963-64 received stipends at the rate of $500 per year for performing various duties in their major departments:

Robert R. Bacalski  Spanish (1 semester only)
Dorothy Ann Corner  French
Of the twenty students listed above, seven were also in the Three-Year Master's Degree program (Ford Foundation).

Sophomore seminar topics in General Honors for 1963-64 were as follows:

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<thead>
<tr>
<th>Title</th>
<th>Instructor</th>
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<td>(1) Humanities</td>
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<td>The Nature of Painting</td>
<td>Clinton Adams</td>
<td>Fine Arts</td>
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<td>Approaches to New Poets</td>
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<td>(2) Social Science</td>
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<td>Paul Fitzsimmons</td>
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<td>Patterns of Discovery</td>
<td>Margaret J. Smith</td>
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The complete list of faculty members who have participated in freshman Honors colloquia is as follows (includes and brings up to date all information on this point in previous reports):
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<th>Name</th>
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<td>Hugh Graham</td>
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<td>Gerald D. Nash</td>
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<td>Edward G. Nolan</td>
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<td>Peter Prouse</td>
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<td>Dudley Wynn</td>
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<td>English</td>
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<tr>
<td>John T. Zepper</td>
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General Observation

We feel certain that the General Honors program has made academic life more interesting for many students and faculty at the University of New Mexico, has contributed to the broadening of the intellectual horizons of students and faculty, has increased the sense of the interdependence of fields of knowledge, and has stimulated a wider and deeper
desire for excellence. Since these are intangibles, they cannot be measured, but we strongly believe that their effect can be felt on this campus.

Respectfully submitted,

Dudley Wynn
Dudley Wynn, Director
The General Honors Program
I. Introduction

Major organizational changes in the Graduate School were completed during the previous academic year. Much of the time of the clerical and administrative staff was taken up by the routine functions of the Graduate School Office. New activities of the staff and the Graduate Committee centered about a critical evaluation of Graduate School requirements and policies.

Foremost in the minds of the Graduate School staff was the sudden and untimely death of Dean William J. Parish on May 4, 1964. Much of the work of this year was inspired by his sincere desire to maintain the Graduate School of the University of New Mexico at the highest academic standards possible. Many of the committees reported on here were chaired by him, and he was involved in some activities which are not reported.

The present staff will make every effort to follow through on the programs begun by Dean Parish and hopes to be able to report on the completion and realization of some of them during the next year.

II. Graduate School Activities

A. Organization of the Graduate Office

1. The organizational pattern established by Dean Parish and outlined in the previous annual report was continued throughout the academic year. No changes, other than staff separations and replacements, occurred in the clerical administration
(see section III). Similarly the system of assistant deanships continued, with the same staff as in the previous year.

2. Director of Research Services

The Director of Research Services, Mr. Harold Walker, moved his office to the Graduate School (Room 153, Administration Building) on March 1, 1964. The Director of Research Services has assumed the responsibility for administering a majority of the fellowships and graduate student support programs from outside agencies. A few exceptions should be noted – the NASA predoctoral program and the Career Scholar program. Mr. Walker's presence in the graduate office proper has been of considerable help in the execution of his duties. Details of the activities of the Office of the Director of Research Services will be filed separately.

The secretary of the Director of Research Services has, on occasion, aided in other clerical activities of the Graduate Office, particularly in typing.

3. Space

Room 151 of the Administration Building was added to the Graduate Office and was occupied on January 10, 1964. Three members of the office staff, including Miss Enrickson, now occupy this space. This arrangement has greatly expanded space for staff and filing purposes, and has considerably eased the general congestion and the mechanics of registration.

B. Academic Regulation

No significant changes in academic regulations regarding admission requirements, grade point averages to be maintained, and student status were made during the last academic year.
C. Fellowship and Scholarship Programs

1. University Fellowships

Sixteen University fellowships were held by graduate students during this academic year. Thirteen fellowships were awarded for the coming academic year. A sub-committee chaired by Dean Rosenblum presented a list of thirteen students and thirty alternates. A large number of alternates is generally presented because the rate of refusals has been high. Several reasons for this high refusal rate are: 1) awards from other universities, 2) preference for assistantships, 3) size of stipend, 4) payment of tuition being required.

The entire problem of fellowship awards and stipends is under careful investigation. (See II D.)

2. Preferential Peace Corps Fellowships

In 1962 ten University Fellowships were allocated in addition to those available from the regular fellowship appropriation for qualified students who had served full Peace Corps terms in foreign lands. Because of difficulties encountered in advertising the availability of these awards to potential candidates, very few applications were received during the academic year 1962-63, and only one actual stipend was awarded that year.

By February 1964, forty-seven applications for Peace Corps Fellowships had been received at the Graduate School for the academic year 1964-65. Requests for information about these awards have continued to arrive in the Graduate Office at the rate of about five per week ever since.
Assistant Deans Rosenblum and Rosenzweig screened all applications and with the recommendations of the departments involved selected 10 awardees and nine alternates for the academic year 1964-65.

This form of graduate financial aid at UNM has received approval and commendation from many sources, including the Peace Corps in Washington, and it is anticipated that it shall remain a permanent aspect of the University's fellowship appropriations in the future.

3. Career Scholar Program

This program has been under the direction of Dean Rosenblum. For a detailed account see the appended report.

4. NASA Predoctoral Training Program

The National Aeronautics and Space Administration has awarded a Predoctoral Training Grant to the University to support the studies of six students in space-related sciences for a maximum of three years each. This program was begun in the fall of 1963. A supplemental grant, beginning fall of 1964, for eight additional students has also been awarded. The report of the first year's activities to the National Aeronautics and Space Administration has not yet been prepared. A brief statement of the activities is therefore presented here.

The grant has been administered by the Graduate School through a faculty committee chaired by Dean Rosenzweig. The committee has been responsible for the awarding of trainee-ships and the establishment of major policy.
Under the terms of the grant each trainee received a minimum stipend of $2,400.00 for twelve months. This may be increased to $3,400.00 through escalation and dependency allowance. All tuition and academic fees are also paid by the grant.

An additional sum of approximately $1,000.00 per trainee, per year, is available to the student or his department for costs of research such as materials and equipment, for books, and for support of course offerings. During the first year the expenditure of these sums has been largely for books and materials.

Approximately $8,700.00 per year is available in the grant for faculty augmentation. During this first year these funds have been used to pay part of the salaries of new faculty in the departments whose students are in the program, and for the salaries and travel of visiting faculty from Los Alamos.

The first six students in the program are from the departments of chemistry (3), geology (2) and mathematics (1).

5. NSF Fellowships

During the Summer Session 1963, three students held National Science Foundation Teaching Assistant Fellowships. One student held an NSF Cooperative Fellowship during the academic year 1963-64. These programs have always provided a small number of students with financial aid and the program is continuing.
D. The Graduate Committee

The Graduate Committee met twelve times during the year. Meetings were generally well attended. No changes in the structure of the Committee occurred during the year.

Voting members of the committee were:

Professor Van Deren Coke
Professor James Cooper
Professor Wayne C. Eubank
Professor Wayne Grannemann
Professor John R. Green
Professor Frederick D. Ju
Professor Patrick D. Lynch
Professor Gerald D. Nash
Professor Virginia Reva
Professor Marvin L. Riedesel
Professor Bernard Udis
Professor Oswald Wyler

Ex-officio members were: Assistant Deans Rosenblum and Rosenzweig and Professor Joe R. Foote.

Several sub-committees were active during the year. These frequently included faculty members who were not members of the Graduate Committee. The make-up of these sub-committees is described below.

E. Sub-Committees of the Graduate Committee

1. Assistants' Salaries and Working Conditions Committee

Assistant Dean Rosenblum, (chairman), Professors Crosby, Grannemann, Mr. Walker.

The sub-committee appointed to investigate various aspects of graduate financial aid met numerous times during the year and evolved a set of recommendations which were approved, in principle, by the Graduate Committee. No final action was taken by the Graduate School, however, and it is planned to implement these recommendations so as to be effective for the academic year 1965-66.
Among the major changes in policy being contemplated are the adoption of a "total academic load" of rough equivalency to 15 semester hours for all graduate appointees, the opportunity for University Fellows to teach one three-hour course each semester and/or summer session, or perform 10 hours of sponsored research work a week for additional remuneration, the merging of Graduate Assistant and Teaching Assistant categories into three classes of Graduate Assistants, and the limitation of graduate awards to an accumulated total of no more than five one-year appointments.

2. Graduate Work Criteria Committee:
   Dean Parish (chairman), Professors Ju, Lynch, Nash, Ellis.

   This committee was established to examine the possibility of providing cleaner guidelines to the establishment of criteria for graduate level work. Several of the problems involved are: 1) the distinction between graduate and upper division credit for courses which carry both (100-level); 2) the role of the Graduate Committee in the approval of courses for graduate credit; 3) graduate credit for short term courses. A number of other aspects of the problem have also been discussed. No action has been taken on any of these points. It was intended to ask the departments to make critical surveys of their offerings during the coming academic year.
3. Foreign Language Requirement Committee:
   Assistant Dean Rosenzweig (chairman), Professors Blum, Cooper, Dickey, McKenzie.

   The committee met on several occasions during the year to consider the Foreign Language Requirement for advanced degrees, and to attempt to determine whether changes in the scope and nature of the requirement should be instituted. A survey of faculty opinion indicated a wide range of feeling on the subject. By the close of the academic year the committee had made several recommendations but no final decision has been reached.

   The increasing number of graduate students has placed a heavy burden on the Department of Modern Languages and specifically on one member of its faculty. The use of a national standardized examination was considered. Such an examination will be used in the 1964 Summer Session on an experimental basis.

   A $6.00 fee has been instituted for all language examinations regardless of the type to be used.

4. Residence Committee:
   Professors Riedesel (chairman), Koschmann, Assistant Dean Rosenblum.

   On May 26, 1964 the Graduate Committee approved the recommendations of the sub-committee investigating residency requirements for doctoral candidates, but broader faculty
reaction to these recommendations was deemed necessary before final action. Such faculty opinion will be solicited during the coming academic year.

The proposed statement on doctoral residency requirements is as follows:

"The minimum residency requirement for the doctoral degree shall be one year, two consecutive semesters, after the master's degree or its equivalent, during which time the candidate shall carry a full academic load on campus involving course work, research and teaching or some combination thereof. Departments (or schools) are to determine what specific combination of academic activities are acceptable to it and in the best interest of their students and supervise the fulfillment of residency requirements."

"The student's Committee on Studies will certify in advance how residency will be met. Exceptions to the residency requirement may be requested by the Committee on Studies of the Dean of the Graduate School when the student, of necessity, must work off-campus in an area directly related to his field of study."

5. Thesis, Dissertation, Tuition Committee:

Professors Udis (chairman), Green, Dean Parish.

The only actions taken by this Committee was the increase of the dissertation fee to $65.00. Other topics were discussed but no firm recommendations have been made.

F. Academic Programs

1. New Degree Offerings

No new degree offerings were approved during the academic year. Two new programs have been examined by the Committee, a Master's degree in International Affairs and a Master of Fine Arts. The degree in International Affairs will
be voted upon early in the next academic year. The Fine Arts-degree was presented as a tentative proposal.

2. Master of Education in Science

The Master of Education in Science degree was reapproved for as long as the National Science Foundation saw fit to continue its support. The program had been previously reapproved each year.

3. Policy on Interdisciplinary Programs

Considerable time was devoted to discussion of the procedures for implementing interdisciplinary programs. It is likely that programs of study may be desirable in which the normal major-minor structure does not provide the best approach. Programs could be structured so as to take advantage of present offerings of several departments in order to offer opportunities for study in fields which can not be clearly assigned to a given department. In this way programs could be created which would make more effective use of existing facilities without budgetary changes and the creation of new departments. Furthermore, a minimum of new courses would thus be required, and the danger of duplicate offerings in separate departments could be eliminated.

It is recognized that there are dangers in such a procedure. Care must be taken that the program has real strength and that the student has an adequate background in the several fields involved. Procedures have been recommended.

4. New Courses

The Graduate Committee decided that except in cases of serious problems, the Dean of the Graduate School should pass on all requests for the approval of new courses.
G. Miscellaneous Events and Activities

1. Honorary Degrees

The Seventy-Fifth Anniversary saw the awarding of a greater than usual number of honorary degrees. The sub-committee on honorary degrees drew on a wider range of personalities for their recommendation, considering on this occasion persons of national and international reputation, as well as those associated with the New Mexico scene and the southwest.

Five degrees were awarded at the February convocation.

Felix Candela, Doctor of Fine Arts
Robert Moody McKinney, Doctor of Laws
Georgia O'Keefe, Doctor of Fine Arts
John Dale Russell, Doctor of Laws
Henry Merritt Wriston, Doctor of Laws

Four honorary degrees were awarded at the June commencement.

William Orville Douglas, Doctor of Laws
Richard Buckminster Fuller, Doctor of Fine Arts
Everly John Workman, Doctor of Science
Lulu Wolf Hassenplug, Doctor of Science

2. Research Lecture

The Eleventh Annual Research Lecture was presented by Professor Milton Kahn of the Department of Chemistry on May 1, 1964. The lecture was titled "Radioisotopes in the Study of Unweighable Amounts of Matter".

The Research and Graduate Committee recommended Professor Edwin Liewen, Department of History, as the Twelfth Annual Research Lecturer. They also recommended that a greater
effort be made in avoiding conflicting events. An earlier scheduling of the Lecture is also being considered.

3. Western Association of Graduate Schools

The annual meeting of the Western Association of Graduate Schools was held at the Western Skies Motor Hotel in Albuquerque on February 23-25, 1964. Arrangements for the meeting were made by Dean Parish.

Four General Sessions were held covering such topics as:

a) Foreign Language Testing Program
b) Student Assistance Programs
c) Evaluation and Accreditation of Graduate Schools
d) The Problems of the Foreign Graduate Student

The last of the above symposium was organized by Dean Rosenblum and included presentations by several University of New Mexico foreign graduate students.

The conference was an outstanding success. Many of the delegates to the meetings represented their Universities at the 75th Anniversary Convocation on February 25;

III. Some Facts and Figures

A. Staff


3. Patricia Lipetsky resigned as Dean's Secretary on March 31, 1964.

4. Audrie Blue started as Dean's Secretary on March 31, 1964.

5. Anita Armstrong was appointed Secretary to Mr. Walker, March 1 to May 15, 1964.

6. Thelma Allen was appointed Secretary to Mr. Walker on May 15, 1964.

B. Travel

1. Dean Parish
   a) October 10, 1963 - to Las Vegas, New Mexico, to attend meeting of the Statewide Committee on Higher Education at Highlands University.
   b) December 11-14, 1963 - to Washington, D. C., to attend meeting of the Council on Graduate Schools in the United States.

2. Dean Rosenzweig
   a) April 4, 1964 - to Chicago, Illinois, to attend meeting of Midwest Conference on Graduate Study and Research.

C. Graduate Student Enrollment

   Enrollment figures showed the expected steady increase with particularly heavy increase in the number of doctoral level students. The total figures were:
Summer Session, 1963 - 1192 (5.86% increase over SS, 1962)
Sem. I, 1963-64 - 1673 (1.21% increase over Sem. I, 62-63)
Sem. II, 1963-64 - 1641 (7.3% increase over Sem.II, 62-63)
More detailed figures in the attached tables.

D. Degrees awarded

- Master of Arts: 121
- Master of Science: 138
- Master of B.A.: 9
- Master of Ind. Admin.: 2
- Master of Music: 1
- Master of Music Educ.: 9
- Master of Ed. in Science: 24
- M.A. in Teach. Spanish: 9

Total Master's: 313

- Doctor of Philosophy: 15
- Doctor of Education: 2
- Doctor of Science: 4

Total Doctor's: 21

TOTAL: 334
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<td>24</td>
<td>5</td>
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<td>2</td>
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<td>Physics</td>
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<td>11</td>
<td>5</td>
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<td>Speech</td>
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<td>12</td>
<td>31</td>
<td>190</td>
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<tr>
<td>Total</td>
<td>1642</td>
<td>934</td>
<td>75</td>
<td>48</td>
<td>317</td>
<td>3</td>
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<tr>
<td>Gain II 63-64 over II 62-63 = 7.3% (Semester II 62-63 total was 1529)</td>
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<tr>
<td>Total</td>
<td>63-64</td>
<td>62-63</td>
<td>Change</td>
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<tr>
<td>Campus Total II</td>
<td>1476</td>
<td>1359</td>
<td>3.4% Gain</td>
<td></td>
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<tr>
<td>Los Alamos Total II</td>
<td>110</td>
<td>130</td>
<td>1.54% Loss</td>
<td></td>
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<tr>
<td>Holloman Total II</td>
<td>55</td>
<td>40</td>
<td>3.75% Gain</td>
<td></td>
<td></td>
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<tr>
<td>Doctorate Total II</td>
<td>258</td>
<td>207</td>
<td>24.6% Gain</td>
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The Report of the School of Law
July 1, 1963 - June 30, 1964
Robert Emmet Clark, Acting Dean

I. GENERAL SCHOOL INFORMATION

A. Significant achievements during academic year 1963-64

The law school graduated its 15th class on June 5, 1964 and now has a total of 254 graduates.

The enrollment figures for the year 1963-64 are as follows:

<table>
<thead>
<tr>
<th></th>
<th>Semester I</th>
<th>Semester II</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st year</td>
<td>53</td>
<td>40</td>
</tr>
<tr>
<td>2nd year</td>
<td>23</td>
<td>24</td>
</tr>
<tr>
<td>3rd year</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>89</strong></td>
<td><strong>77</strong></td>
</tr>
</tbody>
</table>

These figures can be compared with the projections made in the Dean's Report of 1963:

<p>| | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>First year</td>
<td>60</td>
</tr>
<tr>
<td>Second year</td>
<td>23</td>
</tr>
<tr>
<td>Third year</td>
<td>15</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>98</strong></td>
</tr>
</tbody>
</table>

An overall estimate for the year 1964-65 would seem to indicate a similar increase in enrollment is to be expected. This follows the national trend. Between 1957 and 1962, for which figures are available, there was a 15% increase in the number of students studying law in United States law schools.

More important than the enrollment figures themselves is the improved quality of the entering students. Higher admission
requirements have contributed greatly to this development and also
to a decline in attrition rates. The overall quality of the
first year group entering in 1964, as shown by evidence of performance
in college and aptitude tests, will be substantially higher than in
1963. A continuing problem is the lack of scholarship funds and
particularly scholarships for first year students with high ability.

The Law School Admission Test scores for those in the 1963
entering class who completed the year, whether or not they were
suspended or placed on probation, were:

<table>
<thead>
<tr>
<th>Highest</th>
<th>99.6 percentile</th>
<th>737 raw score (800 is considered perfect)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average</td>
<td>65</td>
<td>526 raw score</td>
</tr>
</tbody>
</table>

There were only ten scores below the 50th percentile which is
usually the cut-off point at the best law schools.

The Law School Admission Test average score for the class
entering in 1964 will be significantly higher. We do not exclude
an applicant solely on the basis of his LSAT score, as there are
other criteria, viz. his college background and the Iowa Legal Aptitude
Test which we employ. All of these criteria aid in making the
decision to admit or reject a student.

B. Significant plans and recommendations

1. Library reorganization

The complete reorganization of the law library is
continuing. Substantial changes in procedures, services and
rearrangement of collections and treatises and methods of cataloging
and recording library holdings are included. Much of this work is expected to be completed during the next year.

The growth of the library as well as the anticipated increase in enrollment emphasizes the need for more space. The law building is overcrowded and requires an additional wing for book stacks, offices and seminar rooms.

2. Natural Resources Journal
   a) More secretarial help for the Journal is required. At the present time the Journal has a half-time secretary. A full-time secretary is needed.
   b) The Natural Resources Journal has had a steady growth but in order to become more widely known in all areas of resources, an editor must be found who is knowledgeable in several fields of resources. This is well understood by members of the Journal Advisory Board as well as Mr. Utton, who is presently the Editor. A search should be commenced for a qualified person who could take on the job in the next two or three years. In the meantime Mr. Utton continues to do an excellent job.
   c) The Natural Resources Journal received a grant from Resources For The Future of $10,500, to be used over the next three years at the rate of $3,500 each year.

3. Program of Continuing Legal Education of the Bar
   It is time that the law school took an active part in a specific program of continuing legal education of the State Bar.
This would require services of an additional faculty member with the highest qualifications who would be responsible for the post-degree program of instruction which would be carried on apart from the regular hours of law school instruction.

C. **Appointments to staff**

Professor Henry Weihofen, a member of the faculty since 1948, will serve as acting dean in 1964-65. The search will be continued for a well-qualified person to be appointed dean.

Assistant Professor Carl M. Selinger was given regular status and is no longer Visiting Assistant Professor.

The search for faculty replacements during the year resulted in the appointment of the following persons, effective September 1, 1964:

- Visiting Professor Dale W. Broeder, of the University of Nebraska College of Law, Lincoln, Nebraska. B.A., summa cum laude, Willamette University, 1950. J.D., University of Chicago, 1953.


D. Separations from staff

Dean Vern Countryman resigned effective June 30, 1964 to accept a regular position on the Harvard Law School faculty.

Professor David H. Vernon resigned effective June 30, 1964, to accept a position as associate dean and professor of law at the University of Washington School of Law in Seattle.

Visiting Associate Professor Daniel L. Rotenberg completed his year as visitor and accepted a fellowship for work at the University of Wisconsin for the summer and a position at another university for next year.

Miss Frances Brennan of the library staff retired for health reasons effective June 30, 1964.

E. Leaves of absence

Professor Robert Emmet Clark was granted leave of absence for the year 1964-65 to become Visiting Professor of Law at the University of Arizona, Tucson.

Associate Professor R. Dale Swihart was granted leave of absence for the year 1964-65 to become Visiting Associate Professor of Law at the University of Texas School of Law, Austin.
II. Composite of information requested on individual biographical supplements

1. **Advanced study**

2. **Sabbaticals, leaves of absence, summer teaching, travel, etc.**

   Weihofen, Henry

   On leave until September 1963, serving as Director, Mental Competency Study, The George Washington University.

3. **New scholastic honors, fellowships, etc.**

   Weihofen, Henry

   Honorary Fellow, American Psychiatric Assn. 1963.

4. **Publications**

   Clark, Robert Emmet

   The Legal Background of Federal-State Water Rights Conflicts, Proceedings of Annual Convention of National District Attorneys Assn., Los Angeles


   Some Legal Aspects of Saline Water Conversion, 8th Annual N.M. Water Conference, Roswell, July 1963

   A Short Critique of New Mexico Water Law, N.M. State Bar Convention, October, 1963

   New Mexico Water Resources Law: A Survey of Existing Law, Division of Research, UNM, Spring, 1964

   Community Property, Encyclopaedia Britannica

   Fink, Myron


   The Basic Legal Bibliography Curriculum, 57 Law Library J. 29 (1964)
4. Publications - continued

Swihart, R. Dale

*Federal Taxation of New Mexico Community Property*,
3 Natural Res. J. 104-169 (1963)

Vemon, David H.

*Annulment of Marriage: A Proposed Model Act*,
12 J. of Pub. Law 143 (1963)

*Priorities, The Uniform Commercial Code and Consumer Financing*,
4 Boston College Ind. & Comm. L. Rev. 531 (1962-63)

*Supplement to Title XIV of American Law of Mining* (1 page)

*The Uniform Commercial Code: Some New Mexico Problems and Proposed Legislative Solutions*,
3 Nat. Res. J. 487 (1964)

*Report of the N.M. Advisory Committee to the U. S. Commission on Civil Rights (Housing Discrimination in Albuquerque)*

Weihofen, Henry

*Missouri's Mental Responsibility Law*, Journal of the Missouri Bar, December 1963


5. Other research projects in progress

Clark, Robert Emmet

*The Water Law of the United States*, in progress
(4-5 volumes, 10 collaborators)

*Three lectures on Water Law*, UNM, April 1964

*Recent Ground Water Legislation*, in progress
(to be published in Arizona Law Review)

*Water Law lectures*, N.M. State University, June 29-30
5. Other research projects in progress - continued

Seed, Verle R.

Adverse Possession in New Mexico, an article for the Natural Resources Journal

Selinger, Carl M.

A Study of the Right to Perform a Contract, an article

Swihart, R. Dale

Section of Treatise, American Family Law (multi-volume) on Community Property, to be published by Little, Brown, 1964

Section of Landmark Papers on Estate Planning, Wills, Estates & Trusts (multi-volume treatise) to be published by Prentice-Hall

Preparation of special course materials for Estate Planning

Utton, Albert E.

The International Rights and Obligations of the United States (part of multi-volume work entitled The Water Law of the United States)

Vernon, David H.

Cases and Materials on Agency, Partnership and Introduction to Business Units (with Countryman)

Weihofen, Henry

Director, Mental Competency Study, sponsored by National Institute of Mental Health

Word-Watching for Lawyers, article to appear in American Bar Association Journal

Chapter for book on How to Find the Law, to be published next year by West Publishing Co.
6. **Activities in learned and professional societies**

**Clark, Robert Emmet**

Water Rights Committee, American Bar Association  
(Report of New Mexico Law 1964)

Publications Committee, State Bar of New Mexico

Annual Convention of Association of American Law Schools, Los Angeles, December 1963

**Fink, Myron**

Annual Convention of American Association of Law Libraries, July 1963; panelist on "An Experiment in Library Education--The A.A.L.L. Rotating Institute"

**Seed, Verle R.**

Trustee Rocky Mountain Mineral Law Foundation, met in July 1963 in Boulder, Colorado

Member Legal Committee, Interstate Oil Compact Commission, met in December 1963 in Santa Fe

Annual Convention of Association of American Law Schools, Los Angeles, December 1963

**Selinger, Carl M.**

Annual Convention of Association of American Law Schools, Los Angeles, December 1963

**Swihart, R. Dale**

Annual Convention of Association of American Law Schools, Los Angeles, December 1963

**Utton, Albert E.**

Chairman, World Peace Through Law Committee of the State Bar of New Mexico

Member, Right to Counsel Committee of the Albuquerque Bar Association
6. Activities in learned and professional societies - continued

Vernon, David H.

Committee on Academic Freedom and Tenure, Association of American Law Schools

Annual Convention of Association of American Law Schools, Los Angeles, December 1963

Member Advisory Board, Journal of Legal Education

Member of Subcommittee to Investigate Academic Freedom and Tenure at the University of Mississippi

Weihofen, Henry

Advisory Committee on Supreme Court Decisions, Association of American Law Schools

Annual Convention of Association of American Law Schools, Los Angeles, December 1963

Publications Committee, Albuquerque Bar Association

Meeting of New Mexico Bar Association, Roswell, November 1963

7. Other professional activities

Clark, Robert Emmet

Water Resources Conference, University of California, Lake Tahoe, October 1963

International Rivers Project, New York University, New York, December 1963

Testimony before Senate Select Committee on S. 1275, March 1964

Meeting with UCOH, Tucson, March 1964

University of California Conference on Pacific-Southwest Water Plan, June 4-6, 1964

Swihart, R. Dale


(continued next page)
7. **Other professional activities - continued**

**Swihart, R. Dale - continued**

Program Committee of Third Annual New Mexico Tax Institute

**Utton, Albert E.**

"New Mexico Advisory Committee Report to Civil Rights Commission," talk given to Hadassah

"U.S. Policy and the UN," panel discussion KHFM

"U.S. Policy and the UN," panel discussion KNME-TV

"Cuba and U.S. Foreign Policy," panel discussion KNME-TV, KOB-TV and KGGM-TV

"International Law," talk to Manzano High School

"Problems of World Federalism," panel discussion AAUN

"Capital Punishment," talk to Student Religious Liberals

"The Legal Profession," talk to Young Churchmen of the Rio Grande

"The First, Fifth and Fourteenth Amendments," series of six talks to Adult Education Class of St. Michael's Church

**Vernon, David H.**

Eleven lectures (with prepared teaching materials) sponsored by the Bureau of Indian Affairs and Small Business Administration to group of Indian businessmen

**Weihofen, Henry**

Read papers or participated in panels at:

Governor's Conference on Mental Retardation, Albuquerque, December 1963

Albuquerque Workshop on Alcoholism, December 1963

American Medical Association Conference on Mental Retardation, Chicago, April 1964

(continued next page)
7. Other professional activities - continued

Weihofen, Henry - continued

World Affairs Conference, University of Colorado, April 1964

Law-Behavioral Science Round Table Conference, University of Iowa, April 1964

Institute of Psychiatry and Law for the Judiciary, University of Southern California, May 1964

American Psychiatric Association, Annual Convention, Los Angeles, May 1964

D.C. Area Council on Alcoholism, Washington, D.C., August 1963

Shirtsleeve Session, KNME-TV

Advisor, Walter E. Meyer Research Institute of Law

8. Non-teaching University service

Clark, Robert Emmet

Member of Executive Committee of Natural Resources Center

Member, Entrance & Credits Committee

Fink, Myron

Member, Library Committee

Seed, Verle R.

Member, Retirement and Insurance Committee

Selinger, Carl M.

Ad Hoc Committee of Policy Committee on Use of University Facilities by Outside Speakers

Swihart, R. Dale

Chairman, Faculty Policy Committee

Member, University Administrative Committee

(continued next page)
8. **Non-teaching University service - continued**

Swihart, R. Dale - continued

Law School Library Committee

Administrator, State Bar Loan Fund

Law School United Fund representative

Utton, Albert E.

Cultural Affairs Committee

Vernon, David H.

Chairman, Committee on Academic Freedom & Tenure

Chairman, Ad Hoc Committee to Draft Student Standards Policy

Member, Athletic Council

Lecturer, Career Scholar Program

Faculty Advisor to University Basketball Team at National Invitational Tournament, New York

Chairman, Law School Curriculum Committee

Weihofen, Henry

Student Standards Committee

Law School Library Committee

State Bar Loan Fund Committee (for Law School)

9. **Public service**

Clark, Robert Emmet

Counsel to organizational Committee for State-Wide Planned Parenthood Society

Fink, Myron

Chairman, Speakers' Bureau, Albuquerque Association of United Nations
9. **Public service - continued**

Selinger, Carl M.

Reporter on Court Organization and Administration for the Citizens' Conference on New Mexico Courts

Utton, Albert E.

President, Coronado Monument Society

President, Corrales Community Theater, Inc.

President, Albuquerque Association for the United Nations

Vernon, David H.

Vice Chairman, New Mexico Advisory Committee to the Federal Civil Rights Commission

Investigated civil rights of Indians in Gallup

Chairman of Albuquerque branch of NAACP TV Spectacular commemorating the 10th anniversary of the school integration case

Weihofen, Henry

Board of Directors, Albuquerque Area Council on Alcoholism

Governor's Executive Committee on Statewide Comprehensive Mental Health Planning
The continued development of the School of Medicine during the 1963-64 academic year can be considered under six major categories:

I. Medical Students
II. Faculty
III. Curriculum
IV. Research
V. Building Program
VI. Professional and Hospital Relationships

I. MEDICAL STUDENTS

The enrollment of the first entering class of 24 students will take place on September 10, 1964. The 24 students were selected from an applicant group of 252 who completed formal applications. Of the accepted students 17 are from New Mexico, 5 from WICHE states, and 2 from elsewhere. Thus the number of New Mexico residents entering The University of New Mexico School of Medicine in 1964-65 is essentially double the average number of recent New Mexico residents entering medical schools under the WICHE program. Four of the students are women and 10 students matriculate from The University of New Mexico. The average
score on the Medical College Admission Test is above the 70th percentile on a national basis. The grade point average of the entering class is 2.96.

II. FACULTY

Faculty appointments in previously established departments will be detailed in departmental reports.

Departmental chairmen were appointed as follows:

Aaron J. Ladman, Ph. D., Professor and Chairman, Department of Anatomy
Robert B. Loftfield, Ph. D., Professor and Chairman, Department of Biochemistry
Leroy C. McLaren, Ph. D., Professor and Chairman, Department of Microbiology
Robert A. Senescu, M. D., Professor and Chairman, Department of Psychiatry

Additional faculty appointments include the following:

Francis N. LeBaron, Ph. D., Associate Professor, Department of Biochemistry
Leonard M. Napolitano, Ph. D., Associate Professor, Department of Anatomy
Joseph V. Scaletti, Ph. D., Associate Professor, Department of Microbiology
Matthew B. Lesser, M. D., Assistant Professor, Department of Radiology
Douglas E. Lorenz, Ph. D., Assistant Professor, Department of Microbiology
Renee W. Papper, M. D., Assistant Professor, Department of Radiology
John C. Kramer, M. D., Adjunct-Instructor, Department of Psychiatry

In addition, George M. Boyden, M. D., was appointed Assistant Dean and Assistant Professor of Medicine, with
primary responsibilities as Associate Medical Director at Bernalillo County-Indian Hospital.

III. CURRICULUM

Definition of the curriculum for the first 2 years moved forward rapidly. The teaching program emphasizes the integration of medical sciences and is organized on the basis of interdisciplinary rather than departmental teaching. In addition to the program for medical students, initial steps have been taken by a committee, chaired by Dr. Sidney Solomon, Professor of Physiology, to develop doctoral education in the medical sciences as a function of the Graduate School of the University. A training program in Renal and Electrolyte Physiology and Diseases, developed by the Departments of Physiology and Medicine, was approved by the National Heart Institute and is already under way.

IV. RESEARCH

The faculty of the School of Medicine is actively engaged in research activities supported by the National Institutes of Health and the National Science Foundation. Research support from extramural sources during 1963-64 totaled $194,204. A list of approved grants for 1964-65 is attached.
V. BUILDING PROGRAM

A. Basic Medical Sciences Building

Financing for the research portion of the new Basic Medical Sciences Building was approved and funds committed by the Health Research Facilities Division of the National Institutes of Health in the amount of $1,321,969. An application for funds in the amount of $1,705,336 was submitted to the Health Professions Educational Facilities Division. It is anticipated that this application will be reviewed in September 1964 and that, assuming approval, building will commence early in 1965.

B. Library of the Medical Sciences Building

The additions to the Library of the Medical Sciences Building were completed. The Library was occupied in the latter part of August 1963. The Dean's Office moved from the Administration Building to the Library Building in January 1964. The laboratory area will be occupied in August 1964.

C. Exter-Tonella Mortuary Building

The University negotiated acquisition of the Exter-Tonella Mortuary Building immediately north of the Library of the Medical Sciences. The building will be utilized for classrooms, faculty offices and laboratories.
D. Interim Student Laboratory Building

Contracts were awarded for construction of a metal building which will serve as a student teaching laboratory and additional space for faculty.

E. Building T-17

Building T-17 on the central campus was occupied by the Department of Physiology in June 1964. It serves as temporary quarters for faculty, graduate education, and research.

VI. PROFESSIONAL AND HOSPITAL RELATIONSHIPS

Relationships with the medical profession have been coordinated through a Liaison Committee of the New Mexico Medical Society. The School is fortunate in having had the full support of the practicing physicians in New Mexico.

The relationship between the School of Medicine and Bernalillo County-Indian Hospital and the Veterans Administration Hospital continued with increasing realization of mutual benefits. Development of additional space for patient care and research has been accomplished at both hospitals. The Trustees of the Bernalillo County-Indian Hospital have given wholehearted support to the
principles of the agreement with the University whereby the School of Medicine is responsible for the professional, educational, and research programs of the Hospital. As provided in the agreement, a contractual arrangement was negotiated whereby the School of Medicine assumes direct responsibility for professional services in Pathology and Radiology at the Bernalillo County-Indian Hospital.

The Albuquerque Veterans Administration Hospital Dean's Committee has established a working relationship of full confidence and cooperation with the administration and professional staff of the Hospital.
## The Significance of Myocardial Metabolism Via Shunt Pathways

**Investigator:** Martin Brandfonbrener, M.D.

**Grant Number:** HE 08697-02

**Amount:** $15,580

## Active Transport and Cellular Metabolism

**Investigator:** Agamemnon Despopoulos, M.D.

**Grant Number:** AM 08719-01

**Amount:** 32,864

## Respiratory Distress: Role of Lung and Blood Lipids

**Investigator:** Theodore N. Finley, M.D.

**Grant Number:** HE 07550-02

**Amount:** 36,000

## Study of Brain Proteins and Lipoproteins

**Investigator:** Francis N. LeBaron, Ph.D.

**Grant Number:** NB 00572-17

**Amount:** 34,070

(In Transfer)

## Biosynthesis of Protein

**Investigator:** Robert B. Loftfield, Ph.D.

**Grant Number:** CA 08000-01

**Amount:** 69,186

## Enterovirus-host Cell Interactions

**Investigator:** Leroy C. McLaren, Ph.D.

**Grant Number:** AI 0650-01

**Amount:** 38,034

## Kidney in Cirrhosis; Sodium Excretion in Hypertension

**Investigator:** Solomon Papper, M.D.

**Grant Number:** HE 07665-03

**Amount:** 24,443

## Brain-Cerebrospinal Fluid Barrier

**Investigator:** Michael Pollay, M.D.

**Grant Number:** NB 05193-01

**Amount:** 24,051

---

**The University of New Mexico**

**School of Medicine**

**National Institutes of Health Grants**

**Academic Year 1964-65**
<table>
<thead>
<tr>
<th>TITLE</th>
<th>INVESTIGATOR</th>
<th>NUMBER</th>
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<td>Red Cell Biochemistry</td>
<td>Ernest R. Simon, M. D.</td>
<td>AM 08131-02</td>
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<td>Mechanisms of Electrolyte Transport in the Kidney</td>
<td>Sidney Solomon, Ph. D.</td>
<td>HE 08477-02</td>
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<td>Magnesium Metabolism</td>
<td>Robert Whang, M. D.</td>
<td>HE 08673-02</td>
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<td>NATIONAL SCIENCE FOUNDATION GRANT</td>
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<td>Studies of the Fine Structure of Tissues Engaged in Synthesis and Transport during Development</td>
<td>A. J. Ladman, Ph. D.</td>
<td>16379</td>
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<td>TRAINING GRANTS</td>
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<tr>
<td>National Heart Institute: Graduate Training Grant</td>
<td>Martin Brandfonbrener, M. D.</td>
<td>T2 HE 5640-01</td>
<td>15,000</td>
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<td>Neurological Diseases and Blindness</td>
<td>Arnold H. Greenhouse, M. D.</td>
<td>T8 NB 10,034-01</td>
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<td>National Heart Institute, Graduate Training Grant Renal Physiology</td>
<td>Solomon Papper, M. D.</td>
<td>T1 HE 5633-01</td>
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<td>Sidney Solomon, Ph. D.</td>
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<td>Mental Health Training Program</td>
<td>Robert A. Senescu, M. D.</td>
<td>T2 MH 6043-01</td>
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The Report of the Department of Medicine
July 1, 1963 - June 30, 1964
Solomon Papper, M. D., Chairman

1. General Departmental Information

A. 'Achievements' during the academic year 1963-64.

1. Residency in Medicine

The Residency in Medicine functioned more smoothly than the year 1962-63. Seventeen residents were selected for the year 1964-65. Of these, 1 withdrew because of visa problems and 2 were drafted. The remaining 14 have good credentials. By virtue of increased faculty, the residency teaching program was greatly improved.

2. Hospital Relationships

a) Bernalillo County-Indian Hospital

Considerable development took place this year. First, a Medical Nursing Supervisor was appointed and two fine Head Nurses were appointed. A well-equipped Medical Intensive Care Unit was established. This has worked well as a teaching and patient care unit.

b) Albuquerque Veterans Administration Hospital

Relationships with the Veterans Administration Hospital were strengthened considerably and a good teaching unit established. Much of this improvement may be attributed to the efforts of Dr. A. N. Longfield, Assoc. Professor of Medicine and Chief of Medicine at the Veterans Administration Hospital.
c) An NIH Training Grant representing the combined activities of the Departments of Medicine and Physiology was created in the field of Renal Physiology and Renal Disease. Doctors Solomon Papper and Sidney Solomon are co-directors and Doctor Robert Whang is Assistant Director. This program goes into effect July 1, 1964, with 1 predoctoral (Physiology) Trainee, 1 postdoctoral (Medicine) Trainee and 2 undergraduate Trainees.
d) Mr. Murray Katz, a medical student at Johns Hopkins is spending 6 months in research as elective work.

3. Research
The following NIH Research grants were obtained:

Dr. Martin Brandfonbrener - "The Significance of Myocardial Metabolism via Shunt Pathways" - $32,422
Dr. Ernest R. Simon - "Red Cell Biochemistry" - $54,141
Dr. Robert Whang - "Magnesium Metabolism" - $28,943

Dr. Hugo Morosi, of the University of Buenos Aires was appointed a Research Fellow

An animal research lab was created at the Albuquerque Veterans Administration Hospital and research laboratories expanded at that institution.

B. Plans and Recommendations for the Near Future

1. Plans
a) Curriculum work for an introduction of first year students to clinical medicine.
b) Plan a postgraduate program for physicians in practice.
c) Continued emphasis on interdepartmental teaching.

2. Recommendations

These have been made during the year and are especially concerned with space and salary budgets.

C. Appointments to the Staff

The presence of Doctors Martin Brandfonbrener, A. N. Longfield, William S. Lovekin, Ernest R. Simon, and Robert Whang have been the major reason for any measure of success achieved this past year.

New appointments include:

Theodore N. Finley, M. D., Associate Professor, effective September 1, 1964

Robert T. Cauthorne, M. D., Assistant Professor, July 1, 1964

Arnold H. Greenhouse, M. D., Assistant Professor, July 1, 1964

William S. Curran, M. D., Instructor, January 1, 1964

Fred W. Watkins, M. D., Instructor, July 1, 1964

Richard S. Watts, M. D., Instructor, Jan. 1, 1964

Nicholas H. Zeller, M. D., Instructor, Jan. 1, 1964

Eugene L. Klingler, M. D., Instructor, July 1, 1964
In addition, a Clinical Associate Faculty was appointed. These are volunteer members of the practicing community. They are as follows:

- John D. Abrums, M. D.
- Richard M. Angle, M. D.
- Charles R. Beeson, M. D.
- William D. Blackwood, M. D.
- Eugene A. Castiglia, M. D.
- James K. Conrad, M. D.
- Daniel E. Cordova, M. D.
- O. S. Cramer, M. D.
- Robert E. Cutler, M. D.
- H. A. Danemann, M. D.
- Cecil H. Dillingham, Jr., M. D.
- Richard C. Field, M. D.
- Robert Friedenberg, M. D.
- Thomas B. Gibbons, M. D.
- Fred H. Hanold, M. D.
- William R. Hardy, M. D.
- Joseph Eldo Johnson, M. D.
- O. Douglas Johnson, M. D.
- James K. Kraner, M. D.
- Chester Kurtz, M. D.
- Heinz Richard Landmann, M. D.
Louis Levin, M. D.
Bernard Lowenstein, M. D.
Albert L. Maisel, M. D.
Robert U. Massey, M. D.
Jo Wayland McMinn, M. D.
C. J. Metzler, M. D.
Elizabeth Mary Mostyn, M. D.
Anthony B. Narbutas, M. D.
David D. Nolting, M. D.
John R. Norman, M. D.
Paul H. Noth, M. D.
Lowell A. Postma, M. D.
Robert Proper, M. D.
Robert R. Secrest, M. D.
Virgil E. Seibert, M. D.
George Simson, M. D.
Donald B. Stewart, M. D.
Richard B. Streeper, M. D.
Henry V. Terrill, M. D.
J. William Warren, M. D.
Anthony W. Williams, M. D.
Bruce Meade Wimer, M. D.
Hugh B. Woodward, II, M. D.

D. Separations

None
The Report of the Department of Pathology
September 1, 1963 - June 30, 1964
R. S. Stone, Chairman

I. General Departmental Information

A. The department was activated September 1, 1963 with the appointment of the chairman. Departmental activities during the remainder of the year have been concerned with:

1. Participation in the general development of the medical school and in curricular planning.
2. Planning and recruitment for the department itself.
3. Development of teaching and service function within the Bernalillo County and Veterans Administration Hospitals.

Curricular planning, in so far as the Pathology Department is concerned, has required definition of the department's role in the teaching plan of the medical school. This planning is still being done, but it is apparent that the department will function in something different from the traditional fashion of other medical schools. It is clear that participation will extend through the two years of the present curriculum, although more concentrated in the second year, will be broadly integrated rather than in the form of a specific course presentation and will include a considerable amount of experimental pathology.

Departmental organization and recruitment are related to definition of the departmental teaching role, but also particularly to investigative efforts to be fostered within the department. In its research functions the department expects to emphasize several newly developing areas of
Medical Biology. Specifically, these concern ultrastructural changes in disease, notably, pathogenesis of viral diseases and viral oncogenesis, cytogenetics, both pure and applied and immunopathology.

Within the two teaching hospitals the department has initiated several new teaching and review conferences and has established an integrated residency program. The residency program will be of four-year duration initially, offering training to eight individuals. Training in Anatomic Pathology, Clinical Pathology and research will be available.

B. Plans for the coming year are primarily concerned with initiation of teaching and establishment of research laboratories. The teaching will relate first to medical student instruction, and, in addition to this, to the refinement of the several clinical teaching-review conferences. The teaching-review conferences not only serve an instructional purpose in the pathology residency program, but also are utilized in the other clinical training programs in the teaching hospitals. Research laboratories are being developed both at 900 Stanford and at the Veterans Administration Hospital. The laboratory at 900 Stanford will be particularly concerned with investigation of pathogenesis of viral diseases and immunopathology. The two laboratories at the Veterans Administration Hospital are concerned with ultrastructure changes and pathogenetic factors in chronic pulmonary disease and with cytogenetics.
C. Appointments to the Staff

William Hentel, M.D., Associate Professor, January 1, 1964.

In addition, the following appointments have been made to be effective on or after July 1, 1964:

Robert E. Anderson, M.D., Assistant Professor
Thomas M. Clendenin, M.D., Instructor
L. Louise Leonard, Ph.D., Instructor
Alan R. Laurain, M.D., Instructor
Norman E. Pond, M.D., Clinical Associate

D. Separations from Staff

None

II. Composite of information requested on individual biographical supplements.

R. S. Stone:

10/19/63 6th Annual New Mexico Joint Chest Conference
          Talk - Pathogenesis of Viral Influenza in Mice

11/2/63 Penrose Cancer Conference, Colorado Springs, Colorado

11/16/63 New Mexico Society for Biological & Medical Research
          Talk - Morphological Aspects of Viral Development

1/17/64 American Society for Surgery of the Hand, Chicago
          Talk - Experimental studies on an irradiated
          peripheral nerve and digital joint homografts
          in monkeys.
          F. L. Ashley, R. C. Machida & R. S. Stone

4/3-4/64 Conference of West Coast Medical Schools, Asilomar,
          Pacific Grove, California

6/25-27/64 Rochester Conference on Programmed Instruction
          in Medical Education, Rochester, New York

Ashley, F. L.; R. S. Stone; T. Polak; O. D. Berman & M. Delabar
Plastic and Reconstructive Surgery 31:333, 1963
Further studies involving wound closure with a rapidly polymerizing adhesive.
W. Hentel:

3/64 Course in Electron Microscopy, Armed Forces Institute of Pathology, Washington, D. C.

5/64 Paper Presented: "Morphologic changes in Pulmonary Emphysema" at regional meeting of Chest Physicians in Ecuador.

5/64 Veterans Administration Central Office Pulmonary Research Committee Conference, Washington, D. C.

6/64 Aspen Conference, Aspen, Colorado
I. General Department Information

A. Significant Achievements

1. Grant to S. Solomon--$30,081; 9-1-63 to 8-31-64.
2. Grant to A. Despopoulos--$9,000; 7-1-64 to 12-31-64.
3. Laboratory set up by S. Solomon and research work started.
4. Obtained Training Grant with Department of Medicine--$60,000; 7-1-64 to 6-31-65.
5. AEC Grant to School of Medicine, originated by S. Solomon--$10,000.

B. Future Plans

1. Implementation of graduate and training programs.
2. Implementation of Medical School curriculum.

C. Appointments to Staff

1. Agamemnon Despopoulos, M.D., Associate Professor, effective July 1, 1964.

D. Separations -- None
The Library of the Medical Sciences came into being with the arrival of the librarian on January 1, 1963. The period from then through June 30, 1963, was spent planning programs and ordering equipment and supplies. On March 23, 1963, the Board of Regents approved a merger agreement combining the collection of the Bernalillo County Medical Society Library with that of the Library of the Medical Sciences. The BCMS Library was not integrated with the University medical library until the University medical library's plant remodeling was completed. Until that time the BCMS Library operated in the Bernalillo County Indian Hospital under the direction of Mrs. Nina Duncan (March 23, 1963 – June 30, 1963) and Mrs. Eva Baerwald (July 1, 1963 – November 21, 1963). This merger agreement brought to the University of New Mexico approximately 6,000 volumes, the ownership of which is retained by the Association.

On August 26, 1963, the staff occupied the technical services and administrative areas of the library building which was being remodeled from its former function as a 7-Up Bottling Plant. During September, October, and most of November the staff worked under adverse conditions while the rest of the building was being remodeled and while air-conditioning and heating ducts were being installed over their heads.
On November 22-23, 1963, during the Thanksgiving recess, the rest of the building was occupied and the collection of the Bernalillo County Medical Society Library was moved into the new library. From Thanksgiving to Christmas part of the Library was occupied by permission of the contractor prior to the time the building was formally turned over to the University.

The Library instituted a system of mechanization, using IBM unit record equipment, which is in advance of programs being developed in other libraries in the country. On August 23, 1963, the Library took delivery on its IBM equipment. This program, using an 82 Sorter, a 26 Printing Card Punch, and a 407 model ES Accounting Machine, has drawn visitors to the Library from such universities as Harvard, Columbia, and Rutgers. A report has been submitted to the BULLETIN OF THE MEDICAL LIBRARY ASSOCIATION for publication.

During the fiscal year, 1,330 volumes of the BCMS Library were recataloged into the National Library of Medicine classification, which is being used by the new medical library. Most of the BCMS Library holdings are serials and have been integrated with the holdings of the University medical library. Only 875 book volumes from the BCMS Library have not been recataloged. A total of 2,186 book titles were cataloged or recataloged during the fiscal year. The Library's total holdings on June 30, 1964, were 15,989 volumes.

Significant additions to the Library within the fiscal year include a gift of over 2,500 volumes from the American College of Surgeons and receipt of 5,000 volumes, or 1/3 of a $150,000 purchase, from Swets-Zeitlinger, Amsterdam, Holland. The remaining 10,000 volumes of this purchase are expected to be received during
the coming calendar year. Other substantial gifts have been received from universities and medical libraries in the United States. 

In addition to the 15,989 volumes in the Library collection, approximately 2,500 additional volumes, which either duplicate the Library's holdings or are out of the scope of its plan, are owned by the Library. These volumes will shortly be offered for sale as a means of acquiring funds for further growth of the Library.

The Library is preparing applications for research and training grants in the field of Medical Librarianship and Medical Communication. It is felt that its mechanization program offers a unique opportunity to further medical librarianship.

The Librarian was appointed in November, 1962, and arrived at the University of New Mexico on January 1, 1963. Mr. Robert T. Divett has continued as Librarian since that time. Immediately prior to coming to UNM he served as medical librarian of the University of Utah Library of Medical Sciences.

Mr. Harold Bellingham, of the Zimmerman Library cataloging staff, became Associate Librarian on July 1, 1963. He had previous experience as head of technical services of the Los Angeles County Medical Society and Iowa State University.

On October 1, 1963, Miss Anne Frances Burke arrived to serve as Acquisitions Librarian. Before this appointment she was head medical librarian at Cornell University School of Medicine in New York City. Miss Burke did a remarkable job of assembling a monograph collection for the Library before she left on June 30, 1964, to take a position at Kansas University Medical School Library in Kansas City, Missouri.

-3-
On October 28, 1963, Mrs. Molly Sittner, recently retired from the position of head librarian, White Memorial Medical Library, Loma Linda University School of Medicine in Los Angeles, California, arrived to assume duties of Assistant Librarian for Reader Services. Mrs. Sittner, in addition to planning a Reader Services Program for the Library, did yeoman duty in organizing and placing under bibliographic control the serial collection of the Library. On June 30, 1964, Mrs. Sittner resumed her retirement after giving her valuable help to the Library.

On July 1, 1963, Mrs. Nina Duncan, Librarian of the BCMIS Library, began a fourteen month leave of absence. She has stated her intention to return as a part-time professional librarian at the conclusion of that leave.

Also on July 1, Mrs. Eva Baerwald, formerly Assistant Librarian of BCMIS Library, assumed full-time status and became acting Librarian of the BCMIS Library, in addition to serving as Librarian of the Presbyterian Hospital Branch of the BCMIS Library. She served as acting BCMIS Librarian until June 17, 1964, when Mr. Divett was appointed Librarian of BCMIS Library, thereby unifying control of the two libraries. Mrs. Baerwald's multi-language abilities have been invaluable to the Library during the past year.

Of great significance in the development of the library has been the clerical staff of whom all but one have served during the complete year. Mrs. Toy Esther Rebollo served as secretary, Mrs. Grace E. Hollied served as a clerical assistant, as did Miss Joan Carrillo.

Mrs. Ladye Payne was hired in June, 1963, as a key-punch operator. Her abilities with all IBM machines which the Library uses were very shortly recognized and she assumed greater responsibilities in the...
progress. By the end of the year she had become acting section chief in the machine section of the library. Without her significant contributions, the development of the Library would have been much slower.

During the year one article written by a member of the staff has been published. Mr. Divett's article, "Selection of Serials for a New Medical School Library", was published in THE REMINDER, the official journal of the Biological Sciences Division, Special Libraries Association. Another article, mentioned above, has been submitted for publication.

During the year the Library was represented at the following meetings of professional societies.

American Association for the History of Medicine, Bethesda, Maryland, and Washington, D.C., April 30, May 1-2, 1964 - Robert T. Divett


Special Libraries Association, St. Louis, Missouri, June 7-11, 1964 - Ladye Marguerite Payne.

Following are listed staff committee assignments and offices held in professional societies of the year.

Robert T. Divett, Membership Committee, Medical Library Assn.

Robert T. Divett, Nominating Committee, Biological Sciences Division, Special Libraries Assn.

Harold Bellingham, Treasurer, Albuquerque Library Assn.

Harold Bellingham, Jack Awards Committee, Southwest Library Assn.

Following are listed staff public services.

Robert T. Divett, Assistant Stake Clerk, Albuquerque Stake, Church of Jesus Christ of Latter-day Saints, and Neighborhood Commissioner, Kanaboo District, Kit Carson Council, Boy Scouts of America.
I. General departmental information

A. The Department of Surgery of the University of New Mexico School of Medicine was activated during the academic year 1963 to 1964 with the arrival of a Professor of Surgery and a full time Instructor in charge of the Division of Neurosurgery. We have been chiefly concerned with the reorganization of the residency training program in general surgery at the Bernalillo County-Indian Hospital and at the Albuquerque Veterans Administration Hospital, and with the continued supervision of this program. Upon the recommendation of the Dean's Committee of the Albuquerque Veterans Administration Hospital this residency has been approved as an integrated residency training program by the Committee on Medical Education and Hospitals of the American Medical Association and by the Veterans Administration. The formal training program has been approved as a five year course of training including one year of training in research or other basic medical discipline underlying good practice of surgery.

Major changes have been accomplished in the research area of the Veterans Administration Hospital to allow for a more active pursuit of surgical research, particularly that involving surgical procedures on animals. Reconstruction in the
Veterans Administration research area will allow the use of approximately one hundred dogs. Dr. Michael Pollay, Instructor in Surgery, has been awarded a grant by the National Institutes of Health for studies on the transfer of fluid and electrolytes across the choroid plexus.

An effort has been made to utilize the practising surgeons of Albuquerque in our surgical residency training program in a meaningful and important way. They have accepted regular and demanding assignments for supervision of the surgical residency training at the Bernalillo County-Indian Hospital. In addition the attending surgeons in the fields of orthopedics, urology and ophthalmology have been included in formal discussions as to the development of full time staffing for the new Medical School in their areas. A Departmental Committee for the Department of Surgery has been appointed and has held regular monthly meetings to discuss the problems of the department.

Active recruitment has been under way during the past six months for a full time surgeon to head the Division of Urology, one for orthopedics and one for ophthalmology. In addition we have been seeking an appropriate general surgeon to fill a full time vacancy at the Veterans Administration Hospital and to hold regular academic status. Careful investigation is being given to the appropriate time to recruit a thoracic surgeon with ability to develop a program of heart surgery in this department. It is planned that the residents assigned to the Bernalillo County-Indian Hospital will be paid from that hospital's budget.
at the end of three more years. Also an Intensive Care Unit on the surgical floor has been planned and requests for adequate budget for this Unit has been made.

C. Dr. Michael Pollay, Instructor in Surgery, effective date, July 1st, 1963. Dr. James S. Clarke, Professor and Chairman, Department of Surgery, effective date, September 1st, 1963.

D. None

II. Composite of information requested on individual biographical supplement.

1. None.

2. None.

3. None.


5. A laboratory for research in the field of neurosurgery has been completed at the Veterans Administration Hospital and will be used by Dr. Michael Pollay. With the cooperation of Dr. Daniel Smith, Chief of Surgery of the Veterans Administration Hospital, Dr. Clarke has initiated a project in the laboratories of the Veterans Administration Hospital to study the effect of recirculating small intestinal loops on the nutrition of does who have undergone extensive small bowel resection.

6. During the past year Dr. Michael Pollay has become a member of The New York Academy of Sciences.
Dr. James S. Clarke read papers at meetings of American College of Surgeons (Oct., 1963), UCLA Postgraduate Course (Feb., 1964), New Mexico Medical Society (April, 1964). Attended meetings of Pacific Coast Surgical Association (Feb., 1964), Western Surgical Association (Nov., 1963), Society of University Surgeons (Feb., 1964), American Gastroenterological Association (April, 1964).

7. Dr. Michael Pollay made the following off-campus talks:

- September 12, 1963 - Clinical Society, U.S.P.H.S., Gallup, New Mexico - "Emergency Neurosurgery".
- October 11, 1963 - Nurses' Anesthetist Association, Albuquerque, New Mexico - "Anesthesia and Emergency Neurosurgery".
- October 25, 1963 - Postgraduate Conference, Alamagordo, New Mexico - "Headaches and Head Injuries".
- January 8, 1964 - State Medical Society, Artesia, New Mexico - "Hydrocephalus".

8. During the past year Dr. Clarke served as Secretary of the Executive Committee of the School of Medicine. Dr. Pollay participated actively in development of that part of the first year Medical School curriculum devoted to neurobiology.

9. None.
The report for the 1963-64 year will review achievements and present plans and recommendations regarding faculty, students, the instructional program, and community service. Pertinent problems and trends will be identified.

I. GENERAL COLLEGE INFORMATION

A. Significant Achievements

Faculty

The total number of faculty was increased this year by the addition of a full-time nurse member and a part-time cultural anthropologist. The addition was made possible through the financial assistance of a Mental Health Training Grant from the National Institute of Mental Health. This was the first year of the five-year grant. By this support the number of faculty was increased from nine to ten and one half.

The purpose of the grant is to strengthen the teaching of psychiatric nursing and the integration of mental health concepts throughout the curriculum. The project director gave leadership to the faculty in many respects including the development of goals, the identification of functions of the faculty, establishment of policies, and curriculum revision.

The faculty in the College of Nursing have continued to work under excessively heavy adjusted credit hour loads. Close and constant instruction of students in the clinical situation is
demanding and must be continued on a daily schedule. This fact, along with the geographic separation of clinical areas away from a central location on a campus works a hardship on faculty, has made productive and creative work difficult, and has caused some feeling of being apart from the main University general faculty.

During this year one of our faculty members was granted a sabbatical leave for 1964-65. This was the first time a faculty member in the College of Nursing has been granted a sabbatical leave.

It was an outstanding event of this year, that The University of New Mexico conferred an honorary degree upon a nurse, Dean Lulu Hasseplug of the School of Nursing, UCLA.

Individual faculty members participated in a series of short courses on newer teaching techniques under WICHE sponsorship. It is anticipated that a report of the project will be written.

Students

The number of students majoring in nursing during 1963-64 and 1962-63 follows:

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<th>Semester II</th>
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<td>Irr</td>
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<td>Students of Univ &amp; Nurs Coll N-D</td>
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<td></td>
</tr>
<tr>
<td>Basic Students</td>
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<td></td>
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<tr>
<td>Freshmen</td>
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<tr>
<td>Sophomores</td>
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<tr>
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<tr>
<td>Seniors</td>
<td>18</td>
<td>1</td>
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<tr>
<td>Unclass.</td>
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<tr>
<td>RN Students in undergrad. status</td>
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<td>6</td>
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<tr>
<td>TOTALS</td>
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<td>94</td>
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2
STUDENTS MAJORING IN NURSING, 1962-63

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<td>Coll</td>
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<td>Students</td>
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<tr>
<td>of Univ &amp; Nurs</td>
<td>Coll N-D</td>
<td>Nurs Coll</td>
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<tr>
<td>Basic Students</td>
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<td></td>
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<tr>
<td>Freshmen</td>
<td>--</td>
<td>63</td>
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<tr>
<td>Sophomores</td>
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<tr>
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<tr>
<td>Unclass.</td>
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<tr>
<td>All Students in</td>
<td>31</td>
<td>1</td>
</tr>
<tr>
<td>undergrad. status</td>
<td>100</td>
<td>75</td>
</tr>
<tr>
<td>TOTALS</td>
<td>96</td>
<td>83</td>
</tr>
</tbody>
</table>

The number of registered nurses enrolled in regular status has decreased. This probably reflects awareness that the program is not nationally accredited, lack of scholarship funds generally available at other universities, and the shortage of nurses in this community who intend to pursue collegiate nursing education toward a degree.

Recruitment of students into nursing is a national problem. President Johnson has stated that nursing school enrollments must be increased 75 per cent. This is at a time when high school graduates are being attracted into other educational pursuits. Today's trend is that service professions are less attractive than they formerly were; new fields are opening for young women. A recruitment program was begun during the year. A brochure was printed to present the opportunities in nursing and the program at the University. A copy is attached to this report. See Attachment I. A meeting was held for school nurses and counselors, so they could become more familiar with the College of Nursing. A day was planned for high school students to visit the University. They
were given information about the College of Nursing, and taken on
tours which included the hospital.

**Instructional Program**

The instructional program has been the object of examination
by the faculty. In the main, this examination stemmed from NIMH
Training Grant with curriculum development the focus of the pro­
ject. The total sequence of courses was studied with the objec­
tive of developing a more dynamic curriculum in which there is a
sound science foundation for the nursing major and a more clearly
delineated upper division nursing major as a strong university
program in preparation for professional nursing.

During the year, teaching space at the hospitals became
increasing tight and was judged inadequate by two instructors.
Thus, classes which had previously met at hospitals were moved to
campus classrooms.

Doctors and special therapists participated in the teaching
program as visiting lecturers as their time permitted.

The decision was reached during this year to move the nursing
books from Zimmerman Library to the new Library of Medical Sciences.
The move has already been started.

**Community Service**

The College of Nursing, as part of the University, concerns
itself with community service. We are limited, however, in what
we are able to do because of the faculty's commitment to full
teaching schedules and the involvement with regularly enrolled
students.
The following special courses for registered nurses were offered:

**The Patient, The Community and The Nurse**  
½ semester hours, Summer 1963  
Enrollment - 26

**Continuity of Nursing Care**  
¼ semester hours, Summer 1963  
Enrollment - 15

**The Supervisory Process**  
non credit, February-April, 1964  
Enrollment - 37

**Operation Brush Up, for unemployed nurses**  
non credit, April-May, 1964  
Enrollment - 20; 9 went to work

The summer workshops were co-sponsored by voluntary agencies—
one by the Heart Association and the other by the Cancer Society.  
Short term traineeships from the U.S. Public Health Service were available.

One of our faculty members served on the teaching staff in the  
Continuation Education program conducted by the University of Colorado School of Nursing under the auspices of WICHE supported by federal funds. The periodic absence of this faculty member was a problem in our teaching program, but reflected our decision that  
New Mexico should participate in regional projects.

Unfortunately, it was necessary that we turn down several  
requests for extension courses in communities outside of Albuquerque because none of our staff was able to add this to an already full schedule. Neither were we able to assist in the inservice staff education program in the Health Department when requested, and for the same reason.
Through limited faculty activity the College has supported an effort to analyze nursing needs and resources in the state. The dean has chaired a committee made up of nursing leaders representing nursing groups in the community to work on this problem. Information on registered nurses in New Mexico has been put on punch cards, and a pilot project has been completed.

B. Plans and Recommendations

Goals

Goals for the College of Nursing for a five year period have been developed. A copy is attached to this report; see Attachment II. The major plans and recommendations are set forth in this list of Goals.

The five-year plan for the integration of psychiatric concepts in the curriculum is attached. See Attachment III. The implementation of this plan will strengthen our program and make this an outstanding College of Nursing.

Recommended plans for the near future include construction of a College of Nursing building and initiation of a project consisting of demonstration units in clinical areas where our students have practice. It is anticipated that matching funds for construction and financial support for projects to strengthen, improve, and expand educational programs will soon be available from proposed federal legislation.

Faculty

Plans are to study faculty work loads in the light of the problems of nursing education. The demands on nurse faculty, in many respects, are not comparable to demands on other faculty and
must be judged by different criteria. Nursing education, to be effective, is carefully planned and implemented. In addition to deliberate objectives, identifiable rationale, and specific content the nursing instructor is responsible for the selection of patients; the number may be limited, and their locations may place them at some distance from each other. The instructor then is expected to give her undivided attention to one student at a time. This keeps the instructor away from the other students in the group, often for long periods of time.

The problem is increased with the growing complexity of medical care and is augmented by the lack of role models in the clinical areas where our students practice.

We plan to reactive our concern regarding research. We expect to have a faculty committee work on setting up policies for the conduct of research. The goal will be to have productive research projects. We consider this an important task of the faculty.

Attention will be given to working on ways to make it possible for faculty to do their work. This applies to information about University policies and routines, to the handling of procedures in the College office, and to providing essential support and encouragement to faculty.

Faculty need knowledge and skills, and the time to be creative, in order to identify essential nursing content, to seek out available resources and facilities, to enhance student learning, and to experiment with various methods of teaching.

7
Students

We have voted to double our enrollment. In addition to the expected increase of students attending the University, we expect to see results from: attention given to the developing medical center on this campus; national efforts of recruitment; anticipated federal loans; and efforts on our part to seek additional scholarship assistance in New Mexico, conduct a recruitment program, and encourage transfer of students who have taken lower division liberal arts courses elsewhere.

We must attract increasing numbers of college bound young women into professional nursing. We are planning an active recruitment program. We will contact potential students by visits to the schools, by inviting them to the University, by letters, and by contacts through principals, counselors, and school nurses.

As was pointed out in the first part of this Report, today, new fields are opening up for women, and our society is placing less value than formerly on service professions. We recognize a national shortage of professional nurses, but it is particularly acute in New Mexico. The most intense area of shortage, especially in our state, is for professional nurses able to give leadership to the less well-prepared nursing personnel for the improvement of nursing care to patients.

We are currently exploring possibilities for inter-university co-operation in the development of collegiate nursing education between the other universities in the state and the College of Nursing thereby a common lower division two year program could be
worked out for nursing students in each of the universities. The development of a statewide plan for nursing education in New Mexico would make a real contribution to the health of the citizens of the state as well as save money for students and taxpayers.

**Instructional Program**

Changes are planned for the instructional program in order to provide a stronger natural and social science content base upon which to build the upper division nursing major. This means that students will take the regular freshman biology and chemistry courses as well as beginning courses in English, anthropology, sociology, and psychology. This program change appears in the 1964-65 Catalog.

The faculty voted to introduce students to nursing through the study of family dynamics in meeting basic human needs. A course in Family Nursing is planned for the sophomore year.

We plan to examine the upper division nursing courses to more clearly delineate the nursing content and strengthen the nursing major. Faculty will work on determining essential content and learning experiences, and then determine the most economical way to provide students with the essential learnings. This will involve evaluation of clinical resources.

We anticipate that as the influence of the Medical School faculty is felt, improvements in patient care will be effected. This will call for improved nursing care. In clinical facilities where comprehensive patient care is given, the teaching of nursing can be greatly enhanced.
Our plans include exploration for a graduate program during 1965-66. A qualified nurse educator, full time, would develop the curriculum, explore training resources, establish relationships (nursing and interdisciplinary) necessary for the conduct of the program, and work with other faculty in graduate programs in nursing.

We plan that during the coming year (1964-65), we will have part of our psychiatric nursing experience at Bernalillo County-Indian Hospital, with part continuing to be at Nazareth Hospital. With the opportunities at County-Indian Hospital, we believe the students will have an enriched psychiatric nursing experience.

The clinical area for the nursing course in the senior year will be at Bataan Methodist Memorial Hospital rather than at County-Indian. The course will be taught as part of the Medical-Surgical Nursing sequence and at the same time enable the students, as seniors, to begin learning the skills needed to plan and give care to a group of patients and also to work effectively with other personnel.

**Community Service**

We plan to expand our extension and community courses when we are able and as nursing groups indicate they are ready. This cannot be done, however, at the expense the regularly enrolled students. At present it is a problem of not enough faculty. We could better serve the citizens of New Mexico if we could strengthen the leadership potential in the practice of nursing.

We hope to be able to offer, next summer, several workshops for which we have applied for NIMH grant support. One would be on
clinical nursing in psychiatric settings. It would be suitable for nurses working at Las Vegas State Hospital and in the psychiatric unit at Bernalillo County-Indian Hospital as well as for nurses in psychiatric settings in other states. A second workshop would be for school nurses - appropriate for those in New Mexico as well as for others from out of state. The third workshop, on community mental health programs, would bring nurse educators and consultants from other parts of the country to study the unusual programs which have been developed and are giving effective service in underdeveloped communities in New Mexico.

Members of the staff of the College are working with other nurses in the community and with the University Bureau of Business Research toward completion of a survey of nursing needs and resources in New Mexico. The report of this survey will provide basic data to be used in planning in many aspects of nursing in the state.

Summary

The road ahead will not be easy. I believe the faculty will work hard in tackling our problems and moving toward accomplishment of the goals we have adopted.

C. Appointments to the Staff

Miss Linda Amos, September 1, 1964
Miss Josephine Baca, September 1, 1964 (visiting to replace Miss Jansen who goes on sabbatical)
Miss Eileen Cleary, September 1, 1964
Mrs. Karianne Fremoth, September 1, 1964 (part of salary is from HHF Training grant)
Miss Ann Voda, September 1, 1964
Mrs. Virginia Jackson, (administrative assistant part-time)
D. Separation

Mrs. Jeanne Creaah, June 30, 1964
Mrs. Virginia Jackson, June 30, 1964 (from academic appointment)
Miss Agnes Maloney, June 30, 1964
Miss Mary Patricia Simmons, June 30, 1964

II. COMPOSITE OF INFORMATION FROM INDIVIDUAL BIOGRAPHICAL SUPPLEMENTS

Advanced study (include additional earned degrees or progress toward them; professional certification, thesis titles, etc., not previously reported).

Dr. Norris completed requirements for the Ed.D. degree from Teachers College, Columbia University; thesis title: "The Unique Nursing Content of a Selected Nursing Routine".
Sev:ral faculty members took a workshop on Programmed Learning during Summer 1963.
Several faculty members attended a workshop composed of three one-week sessions under WINHE sponsorship on Never Teaching Techniques.

Publications (give title, publisher or name of journal, number of pages, date, etc.) during the period.

Dr. Norris served as interim publisher and editor of Nursing Forum; Perspectives in Psychiatric Care; Journal of the Association of Industrial Nurses.
Miss Virginia Dean, written while a member of the faculty, "Measuring Venous Blood Pressure", American Journal of Nursing 63:10, 70-72.

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).

Dr. Norris' work in progress: paper: "The Relationship of Nursing and Medicine"; report of Two-day Conference on Leadership for Nursing Care held at Teacher's College, Columbia University; revision of doctoral dissertation for publication as a book, "Bedtime: A Therapeutic Routine in Nursing".
Several faculty members are preparing a report on a project of using a programmed text.

Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.).

Dr. Norris is 1/3 owner and member Board of Directors, Nursing Publications Inc.
Dean Crenshaw has served as a chairman, Baccalaureate Seminar of Western Council on Higher Education for Nursing; is a member of the Board of Directors, American Nurses Association; and Vice President, Sigma Theta Tau.

Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.).

Faculty members hold office and serve in numerous capacities in state and local nursing and community health related organizations.

Dr. Norris serves as consultant, National Institute of Mental Health, U.S. Public Health Service, on member of nurse training committees and made four site visits. Several faculty members served as consultants to community health agencies.

Non-teaching University services (administrative, committee work, faculty advisor, etc.).

All faculty serve as advisers to students. Faculty are on University committees (except those in their first year).

Public service (church activities, Community Chest, Boy Scouts, etc.).

Several faculty participate in health and other community activities.

Personal information (any change in marital status, member of children, citizenship, military status, etc.).

One faculty member was married as noted on her supplementary biographical record.
YOUR CAREER IN NURSING

STARTS WITH A COLLEGE EDUCATION AT THE UNIVERSITY OF NEW MEXICO ALBUQUERQUE

STARTING YOUR CAREER IN NURSING

A professional career in nursing is best approached through a college program offering a major in nursing. A college program prepares the nurse as a competent clinical nurse and for head nursing without further college work. It is also the basis for graduate education which prepares for teaching, administration and research in nursing. Technical nurses can be prepared in other kinds of agencies, but only senior colleges and universities prepare the nurse for professional practice.

Four out of every ten nursing students in the Western States are enrolled in a collegiate nursing program which combines education in the humanities with professional nursing education.
PROFESSIONAL NURSING AND YOU

Today, nurses are working in every state in the country and in nearly every country of the world in:

- Hospitals
- Industry
- Schools
- Health Departments
- Visiting Nurse Associations
- Universities
- Armed Forces
- Space Agencies
- Research Institutes
- Peace Corps

The variety of nursing positions—patient care, teaching, research, administration, consultation, supervision, health education and writing—provides for great personal satisfaction and unlimited opportunities for you.

A nursing career places many demands on your personality.

YOU SHOW PROMISE FOR NURSING IF:

- You are reliable—a patient's life may be in your hands.
- You are a good student—modern nursing care requires a knowledge of science.
- You are adaptable—nursing care requires adjusting your skills to individual needs.
- You are good-humored—a nurse must maintain a cheerful disposition even in emergencies.
- You possess personal integrity—honesty with yourself and others is essential.
- You are tolerant—suffering affects people of all races and creeds.
- You are generous—a nurse must often put the needs of patients before her own desires.
- You are discreet—professional nursing ethics require a nurse to keep many intimate secrets.

STARTING YOUR CAREER IN NURSING

A professional career in nursing is best approached through a college program offering a major in nursing. A college program prepares the nurse as a competent clinical nurse and for head nursing without further college work. It is also the basis for graduate education which prepares for teaching, administration and research in nursing. Technical nurses can be prepared in other kinds of agencies, but only senior colleges and universities prepare the nurse for professional practice.

Four out of every ten nursing students in the Western States are enrolled in a collegiate nursing program which combines education in the humanities with professional nursing education.
OPPORTUNITIES FOR PARTICIPATION IN CAMPUS LIFE

Sororities
Religious Associations
Indoor sports
Outdoor sports
Orchestra
Chorus
Dances
Drama
Attend
Football games
Basketball games
Concerts
Art Exhibits
Plays

You will find life with students from many disciplines an enjoyable part of your college career.

Nursing Experiences for Students

The College of Nursing is located near several modern hospitals and health agencies. Among these agencies are those used by the new medical school for medical students. You will gain a variety of experiences at:

- Bataan Memorial Methodist Hospital
- Bernalillo County-Indian Hospital
- Nazareth Hospital
- Visiting-Nursing Service
- Bernalillo County Health Department
- The Rehabilitation Center

Admission Requirements

Graduation from a four-year high school accredited by a regional accrediting association. A minimum of 15 units from a four-year high school or 11 units from a senior high school. A grade average of C in high school and a 2-point grade average during the first year at The University of New Mexico. For further information about subject matter requirements for admission, and procedure for admission

Write: Dr. Virginia Crenshaw, Dean
         College of Nursing
         The University of New Mexico
         Albuquerque, New Mexico

Scholarships and Loans

A limited number of scholarships is available to qualified students. Students may also hold part-time employment to defray their educational costs.

Tuition
New Mexico residents $300.00 per year
Non-residents 570.00 per year
Board and Room 730.00 per year
1. To develop and implement a dynamic collegiate program in nursing leading to the baccalaureate degree.

2. To develop and foster the professional growth and development of faculty members through an active faculty organization.

3. To maintain accreditation by the NLN and Northcentral Association.

4. To develop and implement a plan for recruiting qualified candidates for the nursing program.

5. To increase the number of graduates of the program from 25-30 to 50 per year.

6. To seek adequate scholarships and loan funds for students in the College of Nursing who are able but lack the resources for collegiate preparation in nursing.

7. To secure funds to build a College of Nursing building which will provide office, conference and classroom space to accommodate expanding enrollment and program.

8. To secure funds to operate two demonstration nursing units in the clinical areas used by students and to use these units for learning experiences for students.

9. To establish a public relations program for the improvement of the image of the College and the acceptance of its graduates in the community.

10. To work toward the development of a masters program in clinical nursing.

11. To identify, plan, design, seek funds for and support research projects in nursing care and for the teaching of nursing care.

12. To plan and implement a program for community-service for the nursing staff in the clinical areas used by and in community organizations and agencies where nursing has a contribution to make.

13. To develop and implement a plan for the conduct of short courses and extension courses which will improve nursing services to patients.

14. To advise, stimulate, and motivate outstanding senior students in the College and graduates of the College to seek masters preparation immediately upon graduating from the College.

15. To make a national contribution to nursing through publications in the nursing press and other sympathetic media of new ideas about nursing, teaching of nursing and nursing curriculum, and of reports of research.

16. To develop cooperative and collaborative relationships with the medical, dental, school faculty through interpretation of program, demonstration of nursing competence and joint teaching endeavors.

A. Approach - Curriculum Development.

B. Methods - a. Work with curriculum committee.
   b. Work with faculty in developing course content and supervised clinical experience.
   c. Identify psychiatric content taught in behavioral science courses.
   d. Teach faculty or group of faculty members basic psychiatric concepts.
   e. Write up in detail the psychiatric content to be integrated, the teaching-learning experiences and the results of usefulness of the teaching-learning experiences used in relation to the students' learning of content.
   f. Teach selected concepts to students to test various ways of teaching concepts to students.
   g. Work out procedures which will evaluate the students' knowledge of and ability to apply psychiatric concepts.

C. Procedures - Spring 1964

1. Audit freshman social science and behavioral science courses.

2. Work with curriculum committee in the development of the content of the course Family Nursing.

3. Work with the instructor of the course in Family Nursing in terms of content, organization of learning experiences, selection of learning experiences, supervision of learning experiences, mechanics of the course, developing bibliography, developing assignments, developing evaluation procedures and identifying areas where the integrators can function in the context of the course and ways that the integrators can function as resource persons to faculty.

4. Regularly communicate with, explain and teach the faculty in relation to the psychiatric content components of the Family Nursing course.

5. Help faculty members project their roles as seminar leaders for this aspect of the course in which all faculty will participate.

6. Prepare a detailed syllabus for use by the faculty in implementing this one-year course beginning September 1964.
D. Procedure - Academic Year 1964-65

Family Nursing

1. Function as a consultant, co-teacher and auditor in the course Family Health Nursing.

2. Participate in periodic evaluation of the family nursing course.

3. Participate in revisions of the family nursing course.

4. Audit sophomore social and behavioral science courses.

Junior Year Courses

1. Work with the Curriculum Committee and the junior year faculty members in developing the nursing courses for the junior year doing the same tasks as listed in C.3 above.

2. Work with the faculty in interpreting and teaching the psychiatric content and the kinds of teaching-learning experiences required to teach this content in the junior year.

3. Consult with faculty in relation to their continuing leadership of family nursing seminars.

4. Prepare a detailed syllabus for use by the faculty in implementing this one year program beginning September 1965.

General

Function as a resource person to faculty as requested.

E. Procedure - Academic Year 1965-66

Junior Year Courses or Courses in Nursing

1. Function as a consultant, co-teacher and auditor of the junior year course or courses in nursing.

2. Participate in periodic evaluation of the junior year course or courses in nursing.

3. Participate in revisions of the junior year course or courses in nursing.

Senior Year Courses

1. Work with the Curriculum Committee and the senior year faculty members in developing the nursing courses for the senior year doing the same tasks as listed in C.3 above.

2. Work with the faculty in interpreting and teaching the psychiatric content and the kinds of teaching-learning experiences required to teach this content in the senior year.
3. Consult with faculty in relation to their continuing leadership of the Family nursing seminar.

4. Prepare a detailed syllabus for use by the faculty in implementing this one year program beginning September 1966.


Senior Year Courses in Nursing

1. Function as a consultant, co-teacher and auditor of the senior year courses in nursing.

2. Participate in evaluation of the senior year courses in nursing.

3. Participate in revisions of the junior year course or courses in nursing.

Report

1. Write a detailed report for publication of the psychiatric content to be included in the basic curriculum.

2. Write a report of any new teaching methodologies developed in the course of curriculum development.

3. Work with the faculty to evaluate the program in nursing in terms of socio-psychiatric context.
I. General College Information

A. Significant achievements during the academic year, 1963-64.

1. The academic year, 1963-64, saw the completion of the transition from the four-year program to the five-year program. Beginning with the summer session of 1964, all students enrolled in the College of Pharmacy are following the new plan.

   The four-year program, which was required nationally from 1933, served a useful purpose in the advancement of pharmaceutical education. However, it was recognized early that only by means of an extended educational program would it be possible to prepare students for the proper discharge of their professional tasks.

   The five-year program may well be another transitional step in the development of pharmaceutical education for it already appears that educational standards must be raised again. However, it is probable that several years will elapse before the program is again extended.

B. Reference is again made to this item in the 1961-62 report of the College of Pharmacy wherein needs in relation to staff, graduate work, building space, and equipment were fully discussed in the light of their effect upon the continuation of accreditation of the College. It was pointed out that "Loss of accreditation would place the future of the College in considerable doubt." Furthermore, the morale of the faculty must be considered. It is scarcely consistent to emphasize research in connection with promotions, for example, without providing the facilities and personnel necessary for research.
C. Appointments to staff

1. College of Pharmacy: none.

2. Dental Hygiene Program: see report of the Director.

D. Separations from staff

1. College of Pharmacy: none

2. Dental Hygiene Program: see report of the Director.

II. Composite of Information Regarding Staff Members

1. Advanced study

None

2. Sabbaticals, Leaves of Absence, etc.

None

3. New scholastic honors, etc.

None

4. Publications

BAKER, GEORGE L.


CATALINE, ELMON L.

"... for we have seen His star in the East ... ," El Boticario, 9, No. 12 (Dec. 1963), 7.
5. Other Research Projects in Progress

BAKER, GEORGE L.

"Investigation of Contra Yerba."

CATALINE, ELMON L.

"History of Pharmacy in New Mexico."

DUKE, VICTOR H.

"The Effect of Secondary Avoidance Response on Pain Threshold in Rats."

"Amphetamine Toxicity in Varying Isolated and Group Situations."

STAHLE, KENNETH H.

"Synthesis of Hydrazides of Salicylic Acid."

"Synthesis of Hydrazides of Piperazine Carboxylic Acids."

"Synthesis of Basic Esters with Possible Pharmacological Activity."

"A Study of the Volatile Oil Obtained from Angelica Pinnata (Umbelliferae)."

6. Activities in Learned and Professional Societies

BAKER, GEORGE L.


Attended annual convention of New Mexico Pharmaceutical Association, April 26-28, 1964, and District meetings at Socorro, Albuquerque, and Taos.

CATALINE, ELMON L.

New Mexico Pharmaceutical Association

Parliamentarian
Chairman, Committee on Constitution and By-Laws
Chairman, Publications Committee
Chairman, Convention Program Committee
American Association of Colleges of Pharmacy

Member, committee on Constitution and By-Laws.

District No. 8, A.A.C.P.-N.A.B.P.


Western States Drug Conference

Re-elected Executive Secretary
Attended annual meeting, Las Vegas, Nevada, Jan. 18-19, 1964.

Sigma Xi, New Mexico Chapter

President.

DUKE, VICTOR H.

Spoke at annual convention of New Mexico Pharmaceutical Association, Albuquerque, April 28, 1964.

STAHL, KENNETH H.

American Association of Colleges of Pharmacy


New Mexico Pharmaceutical Association


Phi Kappa Phi, New Mexico Chapter

Vice President

7. Other Professional Activities

CATALINE, ELMON L.

Talk, "Pharmacy Then and Now," given before Albuquerque Sertoma Club and Heights Lions Club.

Chairman of judges in High School Biology, State Science Fair.
FIEDLER, WILLIAM C.


STAHL, KENNETH H.

Judge, Northwestern Regional Science Fair, March 20, 1964.

8. Non-teaching University Service

BAKER, GEORGE L.

Secretary, Pharmacy Faculty
Advisor to third-year students

CATALINE, ELMON L.

Administrative Committee
Committee on Entrance and Credits
Chairman, University College Board of Deans
Member-at-large, New Mexico Union Board
Advisor, fourth-year students
Advisor, Kappa Psi

DUKE, VICTOR H.

Policy Committee
University College advisor

FIEDLER, WILLIAM C.

Curricula Committee
Advisor to second-year students

STAHL, KENNETH H.

University College, advisor
Advisor and Treasurer, Student Chapter, American Pharmaceutical Association

9. Public Service

CATALINE, ELMON L.

Temporary Assistant Advisor, Explorer Post No. 5

DUKE, VICTOR H.

President, Elders Quorum, Church of Jesus Christ of Latter Day Saints
I. General Information

At the July, 1963 meeting the Council on Dental Education of the American Dental Association, acting on recommendation of the evaluating committee, give full approval to the dental hygiene curriculum at The University of New Mexico.

The Council made the following recommendations:

1. Appointment of at least one additional full-time dental hygiene instructor.
2. Replacement of present physical facilities with permanent quarters.
3. Increased funds for faculty travel

Efforts have been made to follow through on the first recommendation but to no avail, as yet.

In the academic year, 1963-64, the Dental Hygiene Program became the financial responsibility of the University. The W.K. Kellogg grant under which it had been established expired August 31, 1963.

II. Faculty Recommendation

In the three years of operation, the attrition rate among students selected for the Dental Hygiene Program has ranged from 10% the first year to 37% the third, averaging 20% for the three year period. In view of this, the Admissions Committee has decided to increase the number of students accepted for each beginning class. It is anticipated 25 students will start the dental hygiene curriculum in September, 1964.

Analysis of the attrition rate reveals that the rate is very high among students who begin their professional training immediately after graduation from high school in spite of careful screening of their admissions qualifications. This group accounts for 75% of the total attrition. It appears that one year of college preparatory work should be a requirement for admission to the Dental Hygiene Program. The dental hygiene faculty would like to make this recommendation.
III. Academic Aspects

The curriculum follows the format originally planned to lead to a certificate in dental hygiene. An increasing number of students are requesting work toward a degree in dental hygiene. Preliminary discussions with several members of the faculty have resulted in an expression of interest.

On March 30, 1964 all second year hygienists anticipating completion of their training in June took the National Board Dental Hygiene Examinations. They scored satisfactorily and earned certificates which are recognized by the licensing boards of 38 states. (New Mexico does not recognize this certificate.)

IV. Practical Training

Activity in the clinic associated with the Dental Programs increased markedly during the past year. More than 2000 patients were given oral prophylaxes and radiographs by the student hygienists. This is more than double the clinical supply of the previous year. With a continued increase in patient flow, the teaching staff will be able to be more selective of clinical material resulting in more varied learning experiences for the students.

V. Physical Facilities

The barracks building occupied by both the Dental Hygiene and Dental Assisting Programs proves adequate, though limited, for the present student enrollment. However, it is becoming increasingly costly to maintain in fair repair and difficult to keep as sanitary as a health service building should be.

VI. Faculty and Staff

Dr. Ben Brabb, a dentist practicing in Albuquerque, joined the faculty in the fall of 1963 as a clinical instructor. The program has eight dentists and two dental hygienists serving as part-time faculty members. The director is still the only full-time faculty member.

Miss Katherine Saunders replaced Miss Donna Dionne as secretary of the Dental Programs on September 1, 1963. Mrs. Marianne Mason joined the staff as a clinical dental assistant on July 1, 1963. Mrs. Mason is a graduate of the first Dental Assisting class at The University of New Mexico having received her certificate in June, 1961.
THE REPORT OF THE UNIVERSITY COLLEGE

July 1, 1962 — June 30, 1964

W. H. Huber, Director

Introduction

This report will follow closely the format used in past University College annual reports. This will permit easy comparison of various aspects of the current University College operation and experience with those of previous years. Also, as in the past, one of the primary concerns of this report will be to examine our operation in the light of the purposes and objectives which prompted the creation of the college.

2. Admissions and Enrollment

The statistical data include all enrollments since the inception of the college, July 1, 1961, a seven year period. These enrollments include all beginning freshmen and all transfer students with less than twenty-six credits earned toward a degree. Also, any transfer students with between twenty-six and fifty earned credits first enroll in the University College and are included in these statistics.

A principal factor in establishing the University College was the anticipated increase in students between the early 50's and the decade of the 60's. However, as rising cost and tuition costs would continue to increase, enrollment growth would cause a problem. We are pleased to report that the University College has been successful in maintaining a steady growth over the past seven years.

The total number of students enrolled in the University College is collected in the annual report of programs and enrollments.

The total number of students and the beginning fall enrollment is shown in the following table:

- Fall 1961: 1,200 students
- Fall 1962: 1,250 students
- Fall 1963: 1,300 students
- Fall 1964: 1,350 students

An increase of 25.8% over the first year of the University College, with an increase of 29.2% over the previous year. The total
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**Total Enrollment by Session**

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<td>2801</td>
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<td>3192</td>
<td>2585</td>
<td>3503</td>
<td>2884</td>
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</tr>
</tbody>
</table>

**Total Registrants through June 1, 1964**: 13,661

**NOTE:**
1. Each enrollment group can be traced through the end of the 1963-64 school year by reading across the table.
2. The total enrollment in the University College for any school term and the composition of this enrollment can be determined by reading down the appropriate column of the table.
University College enrollment also continued its upward climb. When one includes returning students with the new students the 1962 fall enrollment numbered 3192 and the 1963 fall enrollment totaled 3503, an increase of 9.7%. Though total enrollment had increased each year since the inception of the University College in 1957, this increase was at a diminishing rate — 1958—24.8%, 1959—17.2%, 1960—6.6%, 1961—4.9%. Last year the rate of increase also rose and it has risen again this year from 8.6% in 1962 to 9.7% in the fall of 1963. The likely explanation is the expected surge of students during the decade of the sixties and this rate of increase will tend to continue upward for some years to come. Other contributing factors are lower suspension figures and a decrease in attrition through withdrawal and dropouts which are tabulated in later sections of this report.

One further observation on total enrollment of the University College is the overall growth in seven years of operation. In 1957, 1797 students were enrolled. This year there were 3503 enrollments for an increase of 95%. This growth has created several major problems which will be detailed later in this report and which have been mentioned in previous reports. Several of these problems must be faced now. Conditions do not permit further delay.

1. The Tidal Wave Report anticipated no change in admission standards of the University.2 However, high school unit requirements were increased and tightened in 1958. A policy of discouraging enrollment of resident students with less than a C average high school record was begun in 1959, and a C average became mandatory in the fall of 1961. Other rules and regulations

have had some effect on enrollment such as tightening of application deadlines, etc. (More on deadlines will follow later in this report.) These actions have caused freshman enrollments to be smaller than was anticipated in the Tidal Wave Report.

2. This was the third year of operation under the mandatory C average rule for both resident and non-resident high school graduates. As noted in past reports, the effect of this rule was to push the quality of the freshman class upward in both the area of aptitude and achievement. It also has the effect of holding freshman enrollments down. In 1961, the first year of operation under this rule, 200 applicants were denied admission. Last year 195 applicants were denied. This year 231 applicants were initially refused. 104 of those appealed the refusal pursuant to University policy. 63 of those appealing were admitted and registered.3 Thus 218 applicants who would have been admitted to the University under the old rule were refused in 1963.

B. The composition of the University College enrollment continues to be quite different from that anticipated. The Tidal Wave Report estimated that approximately 12% of a given enrollment would carry over into the second year.4 In fact 33% of the 1958 enrollment, 43% of the 1959 enrollment, 44% of the 1960 enrollment, 46% of the 1961 enrollment and 46.6% of the 1962 enrollment consisted of carryover students. This year the carry-over students accounted for 45.5% of the total enrollment. There is a definite leveling trend apparent 5

3See the Annual Report of the Office of Admissions and Records, 1963-64, Introduction for information concerning the academic success of these students.

4Tidal Wave Report, Appendix p. 16-17.
University College Enrollment - 1957-58 Through 1963-64
in the figures of the last three years. It is anticipated that the relation of new to old students will stabilize at about the levels shown for this year.

C. This high retention into the second and third years has caused the enrollment of the University College to surge upwards far beyond the rate of growth of the freshman class. It has also changed the anticipated composition of the enrollment from one predominantly composed of freshmen to one split nearly fifty-fifty between freshmen and sophomores. As the freshman class grows during the period of bulging freshman enrollments in the decade of the 60's, the total enrollment of the University College will be much higher than the forecast because of this higher carry-over group. This development has already posed serious space and budgetary problems which have become critical.

The primary reasons for this large holdover into the second year appear to be three in number.

1. A larger number of students than was anticipated manage to maintain the requisite University College grade point average to remain in good standing, but too low to transfer to degree granting colleges. Between fifteen and twenty per cent of an enrollment finish the first year with less than a C average but above the minimum requirement of the University College. A considerable number of these students eventually earn their way into a degree granting college.

2. Many students choose to remain in the University College for part or all of their second year for various reasons, or through neglect to petition out, they remain by default. This group would account for approximately 10% of the holdover enrollment.
3. A very considerable number of students are vocationally undecided at the end of one year. This was not anticipated in the Tidal Wave Report. 10 to 20% of a freshman class are undecided when they come to the University. 20 to 30% tentatively designate a goal and then switch one or more times during their stay in the University College. Much of this indecision is not resolved at the end of the first year and accounts for several hundred holdovers annually who have the requisite credits and grades to transfer to a degree granting college.

In evaluating this development it appears that on balance it is more advantageous than disadvantageous.

Some of the advantages are:

a. Many late starters are saved for degree colleges, more than had been anticipated.

b. Individual exploration of degree college choices takes place in numbers far exceeding what was anticipated.

c. Suspensions from degree colleges have fallen to negligible figures.

(See annual reports of the several degree granting colleges covering the past several years.)

d. Transfers across degree college lines have fallen to a very low point.

Some of the disadvantageous aspects are:

a. Degree college enrollments tend to be down since so many sophomores are in the University College.

b. The work load on University College facilities, both physical space, equipment, and manpower, has increased more than was anticipated, and at a rate of increase that exceeded expectations. This increased work-
load, where well over one-third of all students at the University are enrolled in this college requiring advisement, record keeping, etc., has resulted in some decrease in the effectiveness in performing these functions.

This past year saw no additional physical space provided, and the resultant crowding contributed to inefficiencies and serious morale problems of staff and student. This was particularly true at peak workload periods during the year. It was, therefore, most heartening when provisions were made to provide additional space during the summer of 1964 by the removal of partitions into an adjoining office. This change which is complete at this writing has also improved the light and ventilation problems, reiterated in all preceding annual reports, in degree. It is to be emphasized, however, that this can be considered only a partial and very temporary solution to the problem of adequate physical quarters. The 1964 fall enrollment in this college will exceed 4000 students, and we should be pushing 5000 in 1965 as a conservative estimate. Even with the remodeling, the layout of the facility does not lend itself to efficient office arrangement nor will its size permit the handling of these future burgeoning enrollments.

The problem of manpower is even more critical. It is hopefully anticipated that the data processing center will be able to perform many of the time consuming clerical operations previously done by hand with the accompanying tedium. If this proves feasible it is further anticipated that addition of full time staff will not be
required for several years. The critical shortage exists in the areas of administration, counseling and advisement.

This past year the academic advisers available for University College advisement decreased in number while enrollment increased 9.7%. The advisee-adviser ratio rose again to an average of 31 advisees per adviser. Many advisers had in excess of 45 advisees. Little can be expected beyond perfunctory scheduling by advisers under these conditions when one considers these duties to be in addition to full teaching loads, expected research activities and committee and other related University obligations.

This matter was discussed at length by the Board of Deans of the University College on two separate occasions, and the late Dr. William J. Parish was asked to prepare a proposal for consideration by the administration. Such a proposal was drawn and will be further discussed in the coming academic year. It is to be hoped that it will receive the most careful consideration by the Board of Deans and the Administration, as the concepts expressed therein seem to have high merit not only with regard to advisement but for many other comparable manpower problems facing the University.

If advisement is to accomplish the purposes described in the Tidal Wave Report and the University supports these purposes and seeks to have them achieved, immediate attention to increasing the quality and quantity of advisement time is dictated.
Special adviser's time together with administrative assistance to organize and direct an advisement program are also indicated assuming the answer to the basic question posed in the preceding paragraph is in the affirmative.

II. Quality Trend of Enrollment

Placement tests given all students on admission provide a measure of the quality of students coming to the University both as to aptitude and achievement. The tables that follow point up the trend to higher quality.

A. Academic Aptitude as Measured by the ACE and SCAT Aptitude Tests

Each student takes a psychological aptitude test on admission. The table below shows the decile rankings of the fall semester freshman enrollments for the years 1957 through 1963.

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<th>Aptitude Ranking of Beginning Freshmen — 1957 through 1963</th>
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<tr>
<td>91-100</td>
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For the past several years the quality of the freshman class has been rising as it is measured by the SCAT aptitude test. This was attributed to the mandatory "C" average rule in large measure. This year has seen a leveling off of this trend. The only significant change is the continued decrease of the number of students in the bottom two deciles of aptitude.

If the assumption is correct that the significant rise in quality of the past was primarily attributable to the "C" average rule, then we could expect this leveling off after several years. Any further improvement would be dependent on upgrading of standards in the high schools or a slow climb as more superior students are attracted to the University as our programs and quality develop and are recognized.

B. English Achievement as Measured by the English Placement Test

Each beginning student takes an English Placement Test on admission. If a student meets the required cutting score on this test, he will be certified as having passed the English Proficiency Examination. Such certification is a University-wide requirement for admission to a degree granting college and for graduation.

The upward trend in English achievement also appears to have reached a plateau. 57.6% of this year's beginning freshmen passed the English Proficiency Examination on admission as compared to 57.5% of the 1962 beginning freshmen.

There is a distinct correlation between aptitudes and English achievement all along the scale. It is most notable at the very top where 75 or more percent of the upper deciles pass on admission, and at the bottom where no student has passed in the first decile.
The following table correlates aptitude ranking with success on the English placement test for freshmen from 1957 through 1963.

### PERCENTAGE OF STUDENTS PASSING E.P.E. ON ADMISSION — 1957-63

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<td>83.2</td>
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### C. Mathematics Achievement as Measured by the Mathematics Placement Test

The third test given on admission is the Mathematics placement test to determine the student's achievement level in mathematics. If a student meets the cutting score he is eligible to enroll in a college level mathematics course; otherwise, the student must enroll in a remedial course prior to taking college level work.

In past reports a tabular comparison of freshmen classes was made showing results of the mathematics test. The past two years such a tabular presentation has been impractical. An entirely new form of mathematics test was adopted...
and the cutting score was radically changed. These changes were made by the Mathematics Department and the Division of Counseling and Testing because large numbers of students performed poorly in mathematics though they met the test cutting scores. The hope was that a different form of test and a higher cutting score would save many students from low grades. According to the Division of Counseling and Testing the new scores and tests cannot be equated precisely to the former tests and scores. However, according to Counseling and Testing the 1963 freshman class about equaled the 1962 class performance in mathematics. Again a leveling off of the rise in quality is seen as was illustrated by the results on the English achievement and the SCAT aptitude tests previously examined.

III. Transfers to Degree Colleges

To a great extent the success of the University College device is reflected in the number and kind of student transferred to degree colleges. The following table, when read horizontally, shows the number and percentage of each enrollment group transferred since 1959. It also shows the total number of students transferred at the close of each academic session when the table is read vertically.
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<td>45</td>
<td>215</td>
<td>123</td>
<td>32</td>
<td>78</td>
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<td>98</td>
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<td>6</td>
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<td>1705</td>
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<td>208</td>
<td>71</td>
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<td>158</td>
<td>615</td>
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<td>47</td>
<td>24.5</td>
<td></td>
<td></td>
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<tr>
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<td>1</td>
<td>14</td>
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<td>16</td>
<td>15</td>
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<td>11</td>
<td>199</td>
<td>210</td>
<td>50</td>
<td>36</td>
<td>36</td>
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<td>Sem II</td>
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<td>4870</td>
<td>35.6</td>
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<tr>
<td>Total</td>
<td>13,661</td>
<td>248</td>
<td>309</td>
<td>129</td>
<td>286</td>
<td>408</td>
<td>61</td>
<td>334</td>
<td>920</td>
</tr>
<tr>
<td>Annual Totals</td>
<td></td>
<td>600</td>
<td>823</td>
<td>381</td>
<td>103</td>
<td>391</td>
<td>428</td>
<td>150</td>
<td>332</td>
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<tr>
<td>Transferred</td>
<td>+43 Summer 1959</td>
<td>776</td>
<td>920</td>
<td>955</td>
<td></td>
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</table>

*The transfers in the 1957-58 school year numbered 423, and for the 1958-59 school year 373 totaling 796.
A. The University College has transferred 4870 students to degree granting colleges in the past seven years.

1. 802 of these students came from the initial enrollment of 1797 beginning in the fall semester of 1957. This number constitutes 44.6% of that initial enrollment who successfully transferred. Attrition ran 55.4% which will be broken down in later phases of this report.

2. It proves interesting to compare transfers of several enrollment groups at the end of equal time periods.


<table>
<thead>
<tr>
<th></th>
<th>No. in Group</th>
<th>No. Transferred</th>
<th>Per cent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sem. 1, 1957-58</td>
<td>1797</td>
<td>604</td>
<td>33.6</td>
</tr>
<tr>
<td>Sem. 1, 1958-59</td>
<td>1508</td>
<td>377</td>
<td>25.0</td>
</tr>
<tr>
<td>Sem. 1, 1959-60</td>
<td>1490</td>
<td>474</td>
<td>31.8</td>
</tr>
<tr>
<td>Sem. 1, 1960-61</td>
<td>1566</td>
<td>497</td>
<td>31.7</td>
</tr>
<tr>
<td>Sem. 1, 1961-62</td>
<td>1585</td>
<td>592</td>
<td>37.4</td>
</tr>
<tr>
<td>Sem. 1, 1962-63</td>
<td>1705</td>
<td>615</td>
<td>36.1</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th></th>
<th>No. in Group</th>
<th>No. Transferred</th>
<th>Per cent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sem. 1, 1957-58</td>
<td>1797</td>
<td>722</td>
<td>40.2</td>
</tr>
<tr>
<td>Sem. 1, 1958-59</td>
<td>1500</td>
<td>509</td>
<td>33.7</td>
</tr>
<tr>
<td>Sem. 1, 1959-60</td>
<td>1490</td>
<td>606</td>
<td>40.7</td>
</tr>
<tr>
<td>Seph, 1, 1960-61</td>
<td>1566</td>
<td>632</td>
<td>40.4</td>
</tr>
<tr>
<td>Sem. 1, 1961-62</td>
<td>1585</td>
<td>741</td>
<td>46.7</td>
</tr>
</tbody>
</table>

**COMPARISON OF TRANSFERS FROM 1957, 1958, 1959 and 1960 SEMESTER I ENROLLMENTS AT CLOSE OF FOUR YEAR CYCLE**

<table>
<thead>
<tr>
<th></th>
<th>No. in Group</th>
<th>No. Transferred</th>
<th>Per cent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sem. 1, 1957-58</td>
<td>1797</td>
<td>758</td>
<td>42.0</td>
</tr>
<tr>
<td>Sem. 1, 1958-59</td>
<td>1508</td>
<td>571</td>
<td>37.9</td>
</tr>
<tr>
<td>Sem. 1, 1959-60</td>
<td>1490</td>
<td>690</td>
<td>44.0</td>
</tr>
<tr>
<td>Sem. 1, 1960-61</td>
<td>1566</td>
<td>667</td>
<td>42.6</td>
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</tbody>
</table>
COMPARISON OF TRANSFERS FROM 1957, 1958 AND 1959
SEMESTER I ENROLLMENTS AT CLOSE OF FIVE YEAR CYCLE

<table>
<thead>
<tr>
<th>Sem. I, 1957-58</th>
<th>No. in Group</th>
<th>No. Transferred</th>
<th>Per cent</th>
</tr>
</thead>
<tbody>
<tr>
<td>1797</td>
<td>782</td>
<td>43.5</td>
<td></td>
</tr>
<tr>
<td>1508</td>
<td>583</td>
<td>38.7</td>
<td></td>
</tr>
<tr>
<td>1490</td>
<td>669</td>
<td>44.9</td>
<td></td>
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</tbody>
</table>

COMPARISON OF TRANSFERS FROM 1957 AND 1958
SEMESTER I ENROLLMENTS AT CLOSE OF SIX YEAR CYCLE

<table>
<thead>
<tr>
<th>Sem. I, 1957-58</th>
<th>No. in Group</th>
<th>No. Transferred</th>
<th>Per cent</th>
</tr>
</thead>
<tbody>
<tr>
<td>1797</td>
<td>797</td>
<td>44.3</td>
<td></td>
</tr>
<tr>
<td>1508</td>
<td>591</td>
<td>39.2</td>
<td></td>
</tr>
</tbody>
</table>

Transfers to degree colleges of the 1961-62 freshman class were higher than any previous group at the end of a two year period, and at the end of three years were higher than any previous group, even those which had six years of elapsed time. The 1962-63 freshman class, though slightly behind the 1961-62 group also shows promise of excelling freshman classes prior to 1961. Though the evidence is far from conclusive, it would appear that the increased quality of freshmen, previously discussed, and the more intensive special counseling, to be treated in detail later, are having beneficial effects in lowering attrition.

B. The aptitude ranking of students transferring and the colleges finally chosen should be included in any analysis of students transferred. The tables on pages 17 and 18 furnish such data.

The table on page 17 separates the 1957 Semester I enrollment group from all other groups because it cannot be said to be fairly representative. A large part of this group came to the University College from the old General College. These students had varying amounts of work prior to the University College, and some had work in excess of that allowed to be taken in University College. This group came in under a "grandfather" clause and should be treated separately.
## Analysis of Aptitude of Transferring Students

1957 Sem X Enrollment Group, All Other Enrollment Groups and Total Through June 1964

<table>
<thead>
<tr>
<th>AGE of SCAT Percentile</th>
<th>1957 Sem I Enrollment Group</th>
<th>1957 Sem II Enrollment Group thru 1953-64 Sem II</th>
<th>Total Transfers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td># in Group</td>
<td># Trans</td>
<td>%</td>
</tr>
<tr>
<td>91-100</td>
<td>154</td>
<td>105</td>
<td>68.2</td>
</tr>
<tr>
<td>81-90</td>
<td>168</td>
<td>111</td>
<td>66.1</td>
</tr>
<tr>
<td>71-80</td>
<td>186</td>
<td>111</td>
<td>59.7</td>
</tr>
<tr>
<td>61-70</td>
<td>174</td>
<td>81</td>
<td>46.5</td>
</tr>
<tr>
<td>51-60</td>
<td>200</td>
<td>100</td>
<td>50.0</td>
</tr>
<tr>
<td>41-50</td>
<td>153</td>
<td>57</td>
<td>37.2</td>
</tr>
<tr>
<td>31-40</td>
<td>195</td>
<td>78</td>
<td>40.0</td>
</tr>
<tr>
<td>21-30</td>
<td>185</td>
<td>72</td>
<td>38.9</td>
</tr>
<tr>
<td>11-20</td>
<td>176</td>
<td>46</td>
<td>26.1</td>
</tr>
<tr>
<td>01-10</td>
<td>154</td>
<td>40</td>
<td>25.9</td>
</tr>
<tr>
<td>No Test</td>
<td>52</td>
<td>1</td>
<td>1.9</td>
</tr>
<tr>
<td>Total</td>
<td>1797</td>
<td>802</td>
<td>44.6</td>
</tr>
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</table>
### Analysis of Aptitude Ranking and Degree College Choice of 4870 Students Transferred Through June 30, 1964

<table>
<thead>
<tr>
<th>Percentile</th>
<th>A &amp; S</th>
<th>B A</th>
<th>Edu</th>
<th>Eng</th>
<th>P A</th>
<th>Muse</th>
<th>Pharm</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>22-100</td>
<td>529</td>
<td>50</td>
<td>83</td>
<td>186</td>
<td>56</td>
<td>12</td>
<td>19</td>
<td>337</td>
</tr>
<tr>
<td>31-50</td>
<td>376</td>
<td>65</td>
<td>112</td>
<td>186</td>
<td>75</td>
<td>22</td>
<td>16</td>
<td>852</td>
</tr>
<tr>
<td>31-80</td>
<td>308</td>
<td>59</td>
<td>135</td>
<td>101</td>
<td>71</td>
<td>20</td>
<td>31</td>
<td>725</td>
</tr>
<tr>
<td>40-70</td>
<td>193</td>
<td>40</td>
<td>83</td>
<td>92</td>
<td>36</td>
<td>11</td>
<td>13</td>
<td>458</td>
</tr>
<tr>
<td>41-60</td>
<td>198</td>
<td>43</td>
<td>149</td>
<td>63</td>
<td>48</td>
<td>19</td>
<td>18</td>
<td>529</td>
</tr>
<tr>
<td>41-50</td>
<td>132</td>
<td>32</td>
<td>104</td>
<td>39</td>
<td>44</td>
<td>18</td>
<td>17</td>
<td>386</td>
</tr>
<tr>
<td>42-40</td>
<td>123</td>
<td>42</td>
<td>131</td>
<td>25</td>
<td>47</td>
<td>12</td>
<td>9</td>
<td>389</td>
</tr>
<tr>
<td>41-30</td>
<td>77</td>
<td>30</td>
<td>89</td>
<td>17</td>
<td>36</td>
<td>10</td>
<td>9</td>
<td>268</td>
</tr>
<tr>
<td>41-20</td>
<td>73</td>
<td>14</td>
<td>79</td>
<td>12</td>
<td>17</td>
<td>3</td>
<td>4</td>
<td>202</td>
</tr>
<tr>
<td>41-10</td>
<td>38</td>
<td>5</td>
<td>37</td>
<td>11</td>
<td>32</td>
<td>5</td>
<td>4</td>
<td>112</td>
</tr>
<tr>
<td>No Tests</td>
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<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Through June 1963**
- 1592 = 40.7%
- 276 = 7.0%
- 849 = 21.4%
- 625 = 15.9%
- 366 = 9.3%
- 102 = 2.6%
- 114 = 2.9%
- 3915

**1963-64**
- +447 = 16.8%
- +104 = 10.9%
- +162 = 16.9%
- +110 = 11.5%
- +76 = 7.9%
- +30 = 3.1%
- +42 = 2.7%
- +955

**Total**
- 2039 = 41.9%
- 386 = 7.8%
- 1003 = 20.6%
- 735 = 15.1%
- 442 = 7.5%
- 132 = 2.7%
- 140 = 2.9%
- 4870
The tables on the two preceding pages are self explanatory and call for little comment. However, it should be noted that over 73.7% of all transfers since the 1957 fall group score in the top five deciles on the aptitude placement examination. 5.6% of those transferring since the 1957 group score in the bottom two deciles on the aptitude test.

Carrying an analysis of the bottom two deciles a step further, there were 1497 students admitted to the University College with such aptitudes and to date 228 of these gained degree college status or 15.2%.

C. The following information is given to show the distribution of choice of degree college when students first enroll at the University. Comparison with percentage transferring will give a rough idea of the changes that take place. Also, the seven classes represented in this data show the shift of first choice in the past seven years.

**FIRST CHOICE OF DEGREE COLLEGE OF BEGINNING STUDENTS**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts and Sciences</td>
<td>27.2%</td>
<td>32.5%</td>
<td>34.9%</td>
<td>37.0%</td>
<td>34.4%</td>
<td>34.9%</td>
<td>35.9%</td>
</tr>
<tr>
<td>Business Administration</td>
<td>13.0</td>
<td>13.8</td>
<td>14.4</td>
<td>13.4</td>
<td>8.5</td>
<td>10.0</td>
<td>11.3</td>
</tr>
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<td>Education</td>
<td>15.3</td>
<td>18.2</td>
<td>17.2</td>
<td>17.5</td>
<td>18.1</td>
<td>14.6</td>
<td>16.5</td>
</tr>
<tr>
<td>Engineering</td>
<td>33.5</td>
<td>23.7</td>
<td>21.5</td>
<td>17.0</td>
<td>13.1</td>
<td>14.7</td>
<td>14.8</td>
</tr>
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<td>Fine Arts</td>
<td>6.6</td>
<td>8.4</td>
<td>6.4</td>
<td>9.6</td>
<td>6.9</td>
<td>7.5</td>
<td>5.8</td>
</tr>
<tr>
<td>Nursing</td>
<td>2.3</td>
<td>2.1</td>
<td>2.7</td>
<td>2.9</td>
<td>3.1</td>
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<td>1.3</td>
<td>2.9</td>
<td>2.6</td>
<td>3.2</td>
<td>2.8</td>
<td>2.9</td>
</tr>
<tr>
<td>Undecided(^5)</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>10.1</td>
</tr>
</tbody>
</table>

\(^5\) New forms used by the Division of Counseling and Testing from which selection data are taken provides a space for designating indecision. For several years this was not the case. This classification will be carried on this table hereafter.
IV. Graduates

In June of this year 471 of those graduating from the University had been University College students. This group represented 59.02% of the undergraduate degrees conferred. In June of 1963 former University College students numbered 372.

The following tabulation shows the totals for each enrollment group of the University College of those graduated and the year of graduation.

<table>
<thead>
<tr>
<th>Enrollment Group</th>
<th>1961</th>
<th>1962</th>
<th>1963</th>
<th>1964</th>
<th>Total</th>
<th>Transferred</th>
<th>% of Those</th>
<th>% of Beginning Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>1957-58 Sem I</td>
<td>261</td>
<td>142</td>
<td>44</td>
<td>28</td>
<td>475</td>
<td>59.2%</td>
<td>26.4%</td>
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</tr>
<tr>
<td>1957-58 Sem II</td>
<td>13</td>
<td>12</td>
<td>5</td>
<td>3</td>
<td>30</td>
<td>48.7%</td>
<td>11.6%</td>
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</tr>
<tr>
<td>1958 Summer</td>
<td>1</td>
<td>5</td>
<td>1</td>
<td>3</td>
<td>11</td>
<td>35.5%</td>
<td>11.1%</td>
<td></td>
</tr>
<tr>
<td>1958-59 Sem I</td>
<td>7</td>
<td>161</td>
<td>124</td>
<td>34</td>
<td>346</td>
<td>58.5%</td>
<td>22.9%</td>
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</tr>
<tr>
<td>1958-59 Sem II</td>
<td>8</td>
<td>3</td>
<td>12</td>
<td>7</td>
<td>18</td>
<td>25.0%</td>
<td>7.2%</td>
<td></td>
</tr>
<tr>
<td>1959 Summer</td>
<td>2</td>
<td>4</td>
<td>6</td>
<td>3</td>
<td>6</td>
<td>31.6%</td>
<td>8.1%</td>
<td></td>
</tr>
<tr>
<td>1959-60 Sem I</td>
<td>13</td>
<td>184</td>
<td>151</td>
<td>348</td>
<td>348</td>
<td>32.0%</td>
<td>23.3%</td>
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</tr>
<tr>
<td>1959-60 Sem II</td>
<td>8</td>
<td>8</td>
<td>16</td>
<td>12</td>
<td>16</td>
<td>26.1%</td>
<td>8.5%</td>
<td></td>
</tr>
<tr>
<td>1960 Summer</td>
<td>10</td>
<td>10</td>
<td>20</td>
<td>10</td>
<td>20</td>
<td>27.8%</td>
<td>16.1%</td>
<td></td>
</tr>
<tr>
<td>1960-61 Sem I</td>
<td>1</td>
<td>177</td>
<td>173</td>
<td>173</td>
<td>173</td>
<td>26.5%</td>
<td>11.3%</td>
<td></td>
</tr>
<tr>
<td>1960-61 Sem II</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>16.9%</td>
<td>5.3%</td>
<td></td>
</tr>
<tr>
<td>1961 Summer</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>1961-62 Sem I</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Totals</td>
<td>262</td>
<td>342</td>
<td>372</td>
<td>471</td>
<td>1467</td>
<td></td>
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</tr>
</tbody>
</table>
A comparison of enrollment groups for like periods of time shows the following number and percentage who have graduated.

<table>
<thead>
<tr>
<th>Enrollment Group</th>
<th>4 Years</th>
<th>5 Years</th>
<th>6 Years</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Graduated</td>
<td>%</td>
<td>Graduated</td>
</tr>
<tr>
<td>1957-58 Sem I 1797</td>
<td>261</td>
<td>14.5</td>
<td>403</td>
</tr>
<tr>
<td>1958-59 Sem I 1508</td>
<td>168</td>
<td>11.1</td>
<td>292</td>
</tr>
<tr>
<td>1959-60 Sem I 1490</td>
<td>197</td>
<td>13.2</td>
<td>348</td>
</tr>
<tr>
<td>1960-61 Sem I 1566</td>
<td>178</td>
<td>11.3</td>
<td></td>
</tr>
</tbody>
</table>

The large number of successful students who require five or more years to graduate evidences the large number of students who face serious problems during their academic experience. These problems range from personal problems of the financial, family, etc., variety to the more frequently occurring slow start academically by choosing wrong field, indecision, lack of preparation requiring non-credit remedial work, slow adjustment, etc. Any of these difficulties will cost all but the very select student one or more extra semesters before he can meet graduation requirements.

It is this group that the University College device was created to serve and which experience indicates has been served in many ways, some of which have been treated earlier in this report and others which will be treated in later sections.

A. **Aptitude Ranking and College of Graduation**

The following table lists the number of University College enrollees who have graduated, the college from which they graduated and the decile ranking they had on the aptitude test when first admitted to the University.
TOTAL UNIVERSITY COLLEGE STUDENTS GRADUATED THROUGH JUNE 1964

<table>
<thead>
<tr>
<th>Percentile</th>
<th>A &amp; S</th>
<th>B A</th>
<th>Edue</th>
<th>Phys</th>
<th>F A</th>
<th>Hurs</th>
<th>Farm</th>
<th>Totals</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>91-100</td>
<td>148</td>
<td>16</td>
<td>26</td>
<td>41</td>
<td>12</td>
<td>2</td>
<td>4</td>
<td>250</td>
<td>17.0</td>
</tr>
<tr>
<td>81-90</td>
<td>101</td>
<td>22</td>
<td>47</td>
<td>53</td>
<td>18</td>
<td>8</td>
<td>4</td>
<td>253</td>
<td>17.2</td>
</tr>
<tr>
<td>71-80</td>
<td>79</td>
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<td>57</td>
<td>26</td>
<td>14</td>
<td>4</td>
<td>7</td>
<td>205</td>
<td>14.0</td>
</tr>
<tr>
<td>61-70</td>
<td>58</td>
<td>9</td>
<td>33</td>
<td>20</td>
<td>9</td>
<td>5</td>
<td>3</td>
<td>137</td>
<td>9.3</td>
</tr>
<tr>
<td>51-60</td>
<td>37</td>
<td>16</td>
<td>72</td>
<td>22</td>
<td>12</td>
<td>7</td>
<td>2</td>
<td>188</td>
<td>12.8</td>
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<td>41-50</td>
<td>28</td>
<td>11</td>
<td>38</td>
<td>16</td>
<td>8</td>
<td>2</td>
<td>4</td>
<td>108</td>
<td>7.4</td>
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<tr>
<td>31-40</td>
<td>36</td>
<td>14</td>
<td>33</td>
<td>7</td>
<td>11</td>
<td>5</td>
<td>2</td>
<td>125</td>
<td>8.6</td>
</tr>
<tr>
<td>21-30</td>
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<td>8</td>
<td>37</td>
<td>10</td>
<td>10</td>
<td>3</td>
<td>0</td>
<td>93</td>
<td>6.3</td>
</tr>
<tr>
<td>11-20</td>
<td>25</td>
<td>5</td>
<td>27</td>
<td>2</td>
<td>3</td>
<td>0</td>
<td>2</td>
<td>64</td>
<td>4.4</td>
</tr>
<tr>
<td>01-10</td>
<td>15</td>
<td>1</td>
<td>17</td>
<td>6</td>
<td>2</td>
<td>4</td>
<td>0</td>
<td>43</td>
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</tr>
<tr>
<td>Totals</td>
<td>572</td>
<td>119</td>
<td>405</td>
<td>203</td>
<td>99</td>
<td>41</td>
<td>28</td>
<td>1467</td>
<td></td>
</tr>
<tr>
<td></td>
<td>39.6%</td>
<td>8.1%</td>
<td>27.6%</td>
<td>13.8%</td>
<td>6.7%</td>
<td>2.8%</td>
<td>1.9%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Slightly over 70% of the University College enrollees who have graduated to date ranked in the upper five deciles on the aptitude test given on admission.

2. Any degree college interested can ascertain what trends in quantity and quality of their enrollments exist by comparing the tabulations of first choice of degree college, transfers to degree colleges and graduation from degree colleges contained in this report. Comparisons with other degree colleges can also be made.

V. ADDITION

The University College loses students in four ways, (a) academic suspension, (b) withdrawal from the University during the course of a term, (c) failure to complete either completing one or more terms of enrollment, and (d) exhausting University College eligibility without satisfying requirements for admission to degree granting colleges. It is the intention here that might concern the University College, especially those students lost these aptitude ranks then in the top five or
six deciles and who clearly are college material so far as academic ability is concerned.

A. Suspension

1. The following is a tabulation of suspensions by enrollment groups through June 1964.

<table>
<thead>
<tr>
<th>Enrollment Group</th>
<th>Number in Group</th>
<th>Number Suspended</th>
<th>Per cent</th>
<th>Suspension Returns</th>
<th>Number Resuspended</th>
<th>Per cent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sem I</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1957-58</td>
<td>1797</td>
<td>378</td>
<td>21.0</td>
<td>135</td>
<td>74</td>
<td>54.8</td>
</tr>
<tr>
<td>Sem II</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>1957-58</td>
<td>327</td>
<td>97</td>
<td>29.6</td>
<td>29</td>
<td>15</td>
<td>51.7</td>
</tr>
<tr>
<td>Summer</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1958</td>
<td>99</td>
<td>29</td>
<td>29.3</td>
<td>14</td>
<td>10</td>
<td>71.4</td>
</tr>
<tr>
<td>Sem I</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1958-59</td>
<td>1508</td>
<td>294</td>
<td>19.5</td>
<td>91</td>
<td>42</td>
<td>46.1</td>
</tr>
<tr>
<td>Sem II</td>
<td></td>
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</tr>
<tr>
<td>1958-59</td>
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<td>53</td>
<td>21.2</td>
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<td>36.0</td>
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<tr>
<td>1959-60</td>
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<td>263</td>
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<td>Sem II</td>
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<td>1960</td>
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<td>0.0</td>
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<td></td>
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<tr>
<td>1960-61</td>
<td>1566</td>
<td>323</td>
<td>20.6</td>
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<td>47</td>
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</tr>
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</tr>
<tr>
<td>1961</td>
<td>105</td>
<td>16</td>
<td>15.2</td>
<td>4</td>
<td>2</td>
<td>50.0</td>
</tr>
<tr>
<td>Sem I</td>
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<tr>
<td>1961-62</td>
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<td>251</td>
<td>15.8</td>
<td>69</td>
<td>33</td>
<td>47.8</td>
</tr>
<tr>
<td>Sem II</td>
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</tr>
<tr>
<td>1961-62</td>
<td>205</td>
<td>36</td>
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<td>1962</td>
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<td>1962-63</td>
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<tr>
<td>1962-63</td>
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<td>16</td>
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<td>1</td>
<td>50.0</td>
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<td></td>
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<tr>
<td>1963</td>
<td>93</td>
<td>8</td>
<td>8.6</td>
<td>0</td>
<td>0</td>
<td>0.0</td>
</tr>
<tr>
<td>Sem I</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1963-64</td>
<td>1910</td>
<td>169</td>
<td>8.8</td>
<td>0</td>
<td>0</td>
<td>0.0</td>
</tr>
<tr>
<td>Sem II</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1963-64</td>
<td>219</td>
<td>7</td>
<td>3.2</td>
<td>0</td>
<td>0</td>
<td>0.0</td>
</tr>
</tbody>
</table>
Suspensions have tended to run between 15 and 20 per cent of a given enrollment over a span of three or more years. However, there are evidences that this rate is dropping to a 15% and under figure for the past several enrollment groups. Comparison of the several fall enrollment groups at the end of a one year period will be made below for more accurate comparison.

Before leaving this summary tabulation, however, the number of suspendees who return after serving their suspension period and the number who are re-suspended deserves a word.

One-third of those suspended return to the University after serving the one calendar year suspension period. Of those who do return, approximately 50% are re-suspended, usually at the close of the first semester after their return, though a few manage to last two or more semesters prior to re-suspension.

This rather poor salvage record prompted the institution of a required intensive interview of each applicant for readmission beginning with the summer of 1961. It was hoped that this device, though time consuming, would result in a decrease in the number of re-suspensions. No interview was required of students who reside so far from Albuquerque that it would be a hardship to come to the University. These students were readmitted on their application and academic record only.

At the close of three years of use of this interview requirement some evidence of its merit is beginning to appear. 157 suspendees were re-admitted this past year and 63 were re-suspended. The mortality rate for this group is 40.1%. Past figures showed the rate running in excess of 50%, except for the 1962-63 year when it ran 42.7%. 
2. The tabulation below shows percentage of suspensions by enrollment group at the end of a comparable time period.

**ONE YEAR CYCLE — FALL ENROLLMENTS, 1957-63**

<table>
<thead>
<tr>
<th>Enrollment</th>
<th>Number in Group</th>
<th>Number Suspended</th>
<th>Percentage Suspensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall, 1957-58</td>
<td>1797</td>
<td>263</td>
<td>14.6</td>
</tr>
<tr>
<td>Fall, 1958-59</td>
<td>1508</td>
<td>184</td>
<td>12.2</td>
</tr>
<tr>
<td>Fall, 1959-60</td>
<td>1490</td>
<td>156</td>
<td>10.5</td>
</tr>
<tr>
<td>Fall, 1960-61</td>
<td>1566</td>
<td>216</td>
<td>13.8</td>
</tr>
<tr>
<td>Fall, 1961-62</td>
<td>1585</td>
<td>158</td>
<td>10.0</td>
</tr>
<tr>
<td>Fall, 1962-63</td>
<td>1703</td>
<td>170</td>
<td>10.0</td>
</tr>
<tr>
<td>Fall, 1963-64</td>
<td>1910</td>
<td>169</td>
<td>8.8</td>
</tr>
</tbody>
</table>

The percentage of freshmen suspended for poor academic records fell below the 10% mark for the first time since the University College device was instituted. There appears to be a developing trend to lower suspension rates as one compares the last three freshmen classes with the preceding four. The increase in admission standards, better high school preparation, especially in the tool areas, and increased emphasis on orientation, counseling, and advisement by student government groups, this College, and other divisions of the University have played significant roles in helping more students make the adjustment to college and survive academically into the second year.

b. Withdrawal, Ineligible and Failure to Return

The other three categories set out above accounting for loss of students can be examined together. Those using up eligibility in the University College and not qualifying for a degree granting college are very few in number, amounting to only 1.5% of total enrollments. The students who withdraw or who fail to return do so by choice for one reason or another.
To date, the overall percentages of enrollment lost in these ways are:

1. Withdrawal during a term 8.0%
2. Failure to return after one or more terms 25.3%
3. Exhausted Eligibility 1.8%

Total 25.1%

If one adds the suspension figures of 15.3% to this, the total attrition of University College has run 50.4% for the total enrollment to date.

A check was made on the aptitude and grades of these students. Nearly one half of them scored in the upper 50 percentiles on the aptitude test; therefore, no particular pattern of weak academic potential was indicated. However, when grades were checked, approximately 40% were on academic probation when they quit and another 30 to 40 per cent had earned less than a C average on work taken to the time of voluntary termination. This leads to the conclusion that the preponderance of these students were doing unsatisfactory work, though most had the ability, and the terminations were prompted by this poor showing.

In turn these conclusions indicate that a large potential is being wasted and anything that can be done to help some of these students would be worthwhile. Some of the steps taken by this college in an attempt to lower this attrition rate will be discussed later under topics dealing with advisement and guidance.

C. Summary of Attrition

A summary of attrition comparing several groups at the end of two years will afford a basis of comparison of enrollments.
The 1961 and 1962 enrollments, the first under the mandatory C average rule, showed the lowest attrition of any group to date. Attrition ran 10% and 10.6% respectively under that of the 1960 group, and 5% and 5.6% under that of the 1959 group, the previous low.

D. Summary Experience of Five Fall Semester Enrollments to June 1963

The tabulation on page 23 gives the summary results to June 1963 of the five fall enrollment groups from 1959 through 1963. It should be noted that five years experience is reflected in the 1959 group summary, four years for the 1960, three years for the 1961, two years for the 1962, and only one year for the 1963.

VI. University College Activities

Results of analyses such as those set out above have prompted various activities in the University College which are aimed at improving the ratio between students transferring to degree granting colleges and attrition. If one examines the number of students transferring to degree granting colleges, it will be observed that a definite trend toward larger percentages of transfers in shorter time periods is developing. Some of this development can be credited to the various activities described below, though greater collectivity of students and better pre-college preparation have also played important roles in the development of this trend.
SUMMARY EXPERIENCE OF FIVE FALL SEMESTER ENROLLMENTS TO JUNE 1964

<table>
<thead>
<tr>
<th>Total Enrollment</th>
<th>Fall Enrollment 1959</th>
<th>Fall Enrollment 1960</th>
<th>Fall Enrollment 1961</th>
<th>Fall Enrollment 1962</th>
<th>Fall Enrollment 1963</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Enrollment</td>
<td>1490 100%</td>
<td>1566 100%</td>
<td>1585 100%</td>
<td>1705 100%</td>
<td>1910 100%</td>
</tr>
<tr>
<td>Transferred</td>
<td>669 669 44.9%</td>
<td>671 42.8%</td>
<td>741 46.8%</td>
<td>615 36.1%</td>
<td>210 11.0%</td>
</tr>
<tr>
<td>Left In Univ. Collese</td>
<td>821 55.1%</td>
<td>895 57.2%</td>
<td>844 53.2%</td>
<td>1090 63.9%</td>
<td>1700 89.0%</td>
</tr>
<tr>
<td>Suspended*</td>
<td>215 14.4%</td>
<td>263 17.0%</td>
<td>213 13.5%</td>
<td>249 14.5%</td>
<td>178 9.3%</td>
</tr>
<tr>
<td>Withdrawn</td>
<td>139 8.7%</td>
<td>103 6.7%</td>
<td>109 6.9%</td>
<td>92 5.4%</td>
<td>103 5.4%</td>
</tr>
<tr>
<td>Failed To Return</td>
<td>423 23.4%</td>
<td>450 28.7%</td>
<td>418 26.3%</td>
<td>409 24.0%</td>
<td>219 11.4%</td>
</tr>
<tr>
<td>Ineligible</td>
<td>29 1.9%</td>
<td>42 2.7%</td>
<td>50 3.2%</td>
<td>9 0.5%</td>
<td>3 0.2%</td>
</tr>
<tr>
<td>Total Attrition</td>
<td>796 52.4%</td>
<td>862 55.1%</td>
<td>792 49.9%</td>
<td>758 44.4%</td>
<td>503 26.2%</td>
</tr>
<tr>
<td>Eligible and Expected To Return</td>
<td>25 1.7%</td>
<td>33 2.0%</td>
<td>52 3.3%</td>
<td>332 19.3%</td>
<td>1197 62.7%</td>
</tr>
<tr>
<td>Term</td>
<td>Five Years</td>
<td>Four Years</td>
<td>Three Years</td>
<td>Two Years</td>
<td>One Year</td>
</tr>
</tbody>
</table>

*Suspension figures given on this table are not figures allowing for suspension returns and resuspensions. For breakdown of these figures see the table on page 23.

1. Five year attrition for the 1958 class was 60.6% compared with 53.4% for the 1959 class.
2. Four year attrition for the 1959 class was 54.1% compared with 55.1% for the 1960 class.
3. Three year attrition for the 1960 class was 55.4% compared with 49.9% for the 1961 class.
4. Two year attrition for the 1961 class was 45.2% compared with 44.4% for the 1962 class.
5. One year attrition for the 1962 class was 24.1% compared with 26.3% for the 1963 class.
A. General Advisement

Constant improvement in academic advisement is one of the aims of the college. Continued communication with University College advisers assigned to the University College by the seven degree granting colleges has pointed up problem areas and suggestions for more effective advisement have been made in both directions. Suggestions received by the College from advisers have been followed where practical, and many advisers have responded most favorably to suggestions from this office. Making this annual report available to advisers, with the data on attrition, problem areas, etc., appears to have been well received and put to good use by many advisers. This practice will be continued.

More attention is being given to the advisement function in some areas of the University when evaluation of faculty performance is undertaken for purposes of rank and salary determination. This development is to be commended and the practice deserves even more attention in all areas of the University if quality advising is desired. Superior advising requires much time, patience and skill, and doing a quality job in this area must be recognized along with the other usual criteria considered.

Generally new advisers added to the staff are being selected with succeeding care and all degree colleges have asked for periodic evaluations of the faculty adviser.

Some of the more serious problems in the area of academic advisement are: (1) increasing workload on advisers as number of advisers to advisor constantly rises, (2) changes in adviser personnel in considerable number during the year, and more importantly from year to year because of leaves,
research projects, etc., (3) increasing difficulty in maintaining effective communication with the advisory staff, (4) as evidence more clearly demonstrates the individuality of problems causing student failures, the increasing need for specialized counseling and time to counsel in depth.

The Board of Deans of the University College began preliminary explorations into these problems and possible solution of them this past spring. These discussions led in the general direction of a more permanent staff of University College advisors selected on the basis of interest and qualifications of the individual adviser. It appears unlikely that a sufficient number of such advisers will be available to meet the increasing number of students and that a much larger number of advisees per adviser will result. This in turn requires a recognition of this function as a part of the workload of these advisers. If such a course of action proves feasible, a staff of 60 to 80 advisers would handle all University College students and with workload allowances and minimum turnover, a better quality program could be developed with in-training for the advisers, time for in depth treatment of individual advisers, and a much tighter knit advisement structure than the University College has ever had. All of this presupposes that the University continues to adhere to a policy of effective individualized services for its students, particularly at the lower division undergraduate level.

3. Special Advisement

The University College has three part time special advisers on its staff. These are Professors Fred Chreist, William Gafford and George Kepners.

These special advisers counsel with University College students who are doing unsatisfactory work in an attempt to diagnose the student's problem
and to suggest solutions. The results of these interviews are made available
to the student’s regular academic adviser for follow-up purposes and to keep
lines of communication open.

In addition a selected group of graduate students in Counseling and
Guidance have worked under the supervision of Dr. Keppers as special advisers
in the University College. This practicum has increased the number of
students that can be counseled and has afforded the graduate students
invaluable experience.

A total of 857 students were scheduled for one or more interviews with
special advisers of the University College during the school year. 685 kept
their appointments for an 80% response. In evaluating the reasons for
academic difficulty, the following appear:

<table>
<thead>
<tr>
<th>Reason</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study Habits and Study Skills</td>
<td>40%</td>
</tr>
<tr>
<td>Outside Work and Overloads</td>
<td>20%</td>
</tr>
<tr>
<td>General Lack of Interest and Indecision</td>
<td>10%</td>
</tr>
<tr>
<td>Unrealistic Majors</td>
<td>9%</td>
</tr>
<tr>
<td>Emotional Difficulties</td>
<td>3.5%</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>3%</td>
</tr>
<tr>
<td>Family Problems</td>
<td>2%</td>
</tr>
<tr>
<td>Health Problems</td>
<td>3%</td>
</tr>
</tbody>
</table>

The response by the student has been most gratifying and many of these
students have had multiple interviews during the year.

It is to be remembered that these students all have average or above
academic potential and well over 75% of them have passed the English test on
admission. Yet these students have below C average records. To the extent
that advisers, special advisers and the students can work toward a resolution of these problems, the attrition rate will drop.

In the past two years, approximately 25% of all students transferred to degree granting colleges had received special advisement. Each of these had records below that required for transfer and subsequently sufficiently improved their performance to meet transfer requirements.

In conjunction with special advisement much use is made of other service divisions of the University. Referrals are made by the special advisers to the Division of Counseling and Testing, the health service, the psychiatrist, dorm councillors, personnel deans, etc. All of these divisions have been most cooperative and helpful.

As of the end of this fiscal year, Dr. Fred Christ will no longer serve as a special adviser. His other academic responsibilities, particularly in the area of speech therapy in the speech clinic, make it impossible for him to continue serving in the University College. This loss to the University College is much regretted and to fill the vacancy will prove most difficult in view of the conscientious and dedicated counseling of hundreds of students by Dr. Christ in the past three years.

C. Remedial Courses

1. English A and Mathematics A are continuing to serve well the purpose for which they were designed. These non-credit, extra fee, courses were instituted to provide students with means of closing gaps in their pre-college education in these two tool areas. Also, English A serves as an alternative means of meeting the all University English Proficiency requirement. Where many students failed to transfer to degree colleges solely because they did not
pass the English Proficiency test by the time they had exhausted University College eligibility, in the five years that English A has been offered as an alternative, the number failing to transfer for this reason has been negligible.

2. Remedial reading assistance is provided to those students seeking it on an informal basis by Mrs. Gene Chievitz, the remedial reading specialist of the Division of Counseling and Testing. University College students referred to Mrs. Chievitz for this service enthusiastically endorse the instructor and the value of the instruction to them in their collegiate studies.

3. Arrangements have been completed whereby several sections of English A and Mathematics A will be offered through the Community College of the University. Many students who are suspended or who drop out do so because of poor background in these tool areas, and should pursue remedial work during their enforced or voluntary interruption. These courses previously were available only to students regularly admitted and enrolled in the University. New constructive suggestions can be made to students under suspension and who need remedial work on ways of profitably using the suspension period.

3. Studies

The University College has continued to make comprehensive studies both for its own use and for the use of other divisions of the University. Most of these are of an evaluation nature to determine the merits and effectiveness of various policies, regulations and actions of the University. The results of many of these studies have been reflected in earlier sections of this report.
E. Future Requirements of the College

As pointed out earlier in this report the University College is experiencing growth that equals or exceeds other divisions of the University. As a result certain pressing problems have arisen which call for immediate attention if the college is to function properly.

1. As previously noted additional office space was made available for the coming school year which will in degree alleviate the previously inadequate facilities and which also has helped the light and ventilation difficulties. However, this can be considered but a temporary stopgap which will be workable for at least two years. When attention is given to providing permanent space, it should be kept in mind that the University College should be located relatively near the center of the campus because of the size of its enrollment and the diversity of goals of its students. The students fan out to every building and college on the campus for registration and advice, and the daily office traffic during the semester for special advice, changes in programs, etc., is very heavy.

2. Serious consideration in depth by the Board of Deans and the Administration is urged with regard to the previously mentioned advice problem, and particularly the suggestions made by the late Dr. William J. Parish.

3. In the event data processing does reduce the amount of clerical work considerably, as is anticipated, there is a good chance that additional full time office staff will not be required for another year or two. However, the nature of the timing of peak work loads in the operation of the college, together with rapidly increasing enrollments will require larger budgetary allowances for part time student help.
At these times multiple additions to staff are necessary and the annual cost is much lower than were permanent staff additions to be made.

4. The College has experienced growth to the point where time absolutely prohibits preparing for fall registration under our present scheduling of admissions, readmissions and testing. It is a problem that cannot be solved by additional personnel or monies.

The solution appears to depend upon moving several of our admission deadlines back and strictly adhering to them, and either having all new students not previously tested come to the campus several days earlier than has been the case, or adopting one of the national testing programs with receipt of scores on these tests being a prerequisite to admission to the University of New Mexico.

Exploration of this problem has begun, and it is mandatory that it be continued with a solution reached prior to the fall of 1965.
The Division of Extension, Summer Session, and Community Services is concerned with many activities such as Off-Campus Instruction; the Community College; Conferences, Institutes, and Short Courses; Summer Session; Audio-Visual Center; Taos County Properties; Correspondence Courses; a Civil Defense Training Program; the Dental Assistants' Program; and the Great Decisions Program. During the academic year of 1963-64, the Division encountered an increased work load.

The administrative staff remained the same. The Division's staff found the following changes: Mrs. Patricia Mariottini terminated employment in October 1963 and Mrs. Cathy Plante replaced her as Division Secretary in December 1963. Mrs. Alma LeClair replaced Mrs. Anne Zachary in March 1964 as Clerk Typist. Mrs. LeClair terminated in March 1964 and was replaced by Mrs. Joyce Forgette in March 1964.

The following faculty members served on the Faculty Committee for the Division of Extension, Summer Session, and Community Services: Mr. Patrick G. Carr, Dr. William S. Eberly, Dr. Joseph M. Kuntz, Mr. William E. Rhoads, Dr. William B. Runge, Miss Katherine G. Simons, Mr. Bert Zippel, and Dr. Harold O. Ried, Chairman.

This report continues the practice of including a section on each major area supervised by the Division.
1. Extension Classes

Regular credit courses and some non-credit courses comprise this section on Extension Classes. During the year, the general policy that these courses be carried on anywhere in the state where sufficient demand warrants their establishment has been followed.

The following classes were held off campus during the reporting period:

A. Semester I, 1963-64

<table>
<thead>
<tr>
<th>Location</th>
<th>Course</th>
<th>Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Los Alamos</td>
<td>Chemistry 211</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Chemistry 213</td>
<td>10</td>
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<tr>
<td></td>
<td>Chemistry 232</td>
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<td></td>
<td>Engineering 215</td>
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</tr>
<tr>
<td></td>
<td>Engineering 235</td>
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</tr>
<tr>
<td></td>
<td>Elec. Engr. 191</td>
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<tr>
<td></td>
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<tr>
<td></td>
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<td></td>
<td>Mathematics 16</td>
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<td></td>
<td>Physics 63L</td>
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<tr>
<td></td>
<td>Physics 101</td>
<td>9</td>
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<tr>
<td></td>
<td>Physics 110</td>
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<tr>
<td></td>
<td>Physics 191</td>
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<tr>
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TOTAL: 330

(Increase from 1962-63 = 42)
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<td>2. Los Alamos</td>
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<td>(Decrease from 1962-63 = 17)</td>
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<td>Resident Credit</td>
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<tr>
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<td></td>
<td>Physics 203</td>
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<td>TOTAL:</td>
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<td>(Decrease from 1962-63 = 45)</td>
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<td>(Increase over 1962-63 = 13)</td>
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</tr>
<tr>
<td>5. Gallup Community College</td>
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<td>Sociology 2</td>
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<td>Spanish 2</td>
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<td>TOTAL:</td>
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<tr>
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<td>(Increase over 1962-63 = 43)</td>
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</tr>
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<td>6. Extension Classes</td>
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<td>Los Alamos</td>
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<td>Psychology 80</td>
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<tr>
<td>Los Lunas</td>
<td>Ed. and Ad. 268</td>
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<tr>
<td>Santa Fe</td>
<td>TOTAL:</td>
<td>140</td>
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<tr>
<td></td>
<td>(Decrease from 1962-63 = 75)</td>
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</table>

Semester I, Total Enrollment: 695
Decrease: 39
## B. Semester II, 1963-64

<table>
<thead>
<tr>
<th>Location</th>
<th>Course</th>
<th>Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. Los Alamos</strong></td>
<td><strong>Chemistry 120</strong></td>
<td>7</td>
</tr>
<tr>
<td><strong>Resident Credit</strong></td>
<td><strong>Chemistry 211</strong></td>
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<tr>
<td></td>
<td><strong>Chemistry 214</strong></td>
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<td><strong>Engineering 218</strong></td>
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<td><strong>Engineering 234</strong></td>
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<td><strong>English 135</strong></td>
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<td><strong>Mech. Engr. 194</strong></td>
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<td><strong>Mech. Engr. 207</strong></td>
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<td><strong>Physics 192</strong></td>
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<td><strong>TOTAL:</strong></td>
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</tr>
<tr>
<td></td>
<td>(Increase over 1962-63 = 3)</td>
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</tr>
</tbody>
</table>

| **German X8**                   | **13**               |            |
| **TOTAL:**                      | **13**               |            |
|                                 | (Decrease from 1962-63 = 4) |           |

<p>| <strong>2. Los Alamos</strong>               | <strong>Biology 201</strong>      | 10         |
| <strong>Non-Credit</strong>                  | <strong>Chemistry 101L</strong>   | 5          |
|                                 | <strong>Chemistry 103L</strong>   | 5          |
|                                 | <strong>Elec. Engr. 192</strong>  | 16         |
|                                 | <strong>Mathematics 170</strong>  | 16         |
|                                 | <strong>Mathematics 183</strong>  | 7          |
|                                 | <strong>Mech. Engr. 215L</strong> | 12         |
|                                 | <strong>Physics 205</strong>      | 7          |
|                                 | <strong>Psychology 180</strong>   | 5          |
|                                 | <strong>Psychology 196</strong>   | 7          |
| <strong>TOTAL:</strong>                      | <strong>90</strong>               |            |
|                                 | (Increase over 1962-63 = 2) |           |</p>
<table>
<thead>
<tr>
<th>Location</th>
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</tr>
</thead>
<tbody>
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<td>4. Gallup Community College</td>
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<td>Resident Credit</td>
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<td>(Decrease from 1962-63 = 40)</td>
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<td>Socorro</td>
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<td>TOTAL:</td>
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<tr>
<td>(Decrease from 1962-63 = 33)</td>
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</tbody>
</table>

Semester II, Total Enrollment: 591  
Decrease: 72

Overall Enrollment, both Semesters: 1,286  
Total Decrease, both Semesters: 111

C. Summer Session, 1964

1. Extension Classes

   a. Quito Institute, Quito, Ecuador  
      Spanish 103 | 54
      Spanish 146 | 54
      Spanish 253 | 54
      Spanish 254 | 54

      Total Credits: 8  
      Total Credit Hours: 432  
      Total Students: 54

   b. West Mesa Air Force Station  
      Albuquerque Government 101 | 14

2. Holloman Air Force Base  
   Seminars at Cloudcroft, New Mexico (Non-Credit)

   **Lecturer**  
   Dr. W. Ross Ashby  
   Dr. David L. Johnson  
   Dr. Heinz Von Foerster  
   Dr. John M. Wozencraft

   **Lecture**  
   "Cybernetics Today"  
   "People, Problems and Computers"  
   "Self-Organizing Systems"  
   "Communication Theory and Practice"
Lecturer
Drs. Sidney and Beatrice Rome
Dr. Paul M. Fitts
Dr. Richard L. Gregory
Dr. Ross Adey
Dr. Holger Hyden
Dr. Ralph W. Gerard
Dr. Joel Elkes
Dr. Ithiel de Sola Pool
Dr. Rensis Likert
Dr. Allen Newell

Lecture
"Communication and Large Organization"
"Information Processing and Decision Making"
"Sensory Factors in Receiving and Transmitting Information"
"Structure and Functional Organization of the Brain"
"The Possible Molecular Bases for Information Storage and Transfer in the Brain"
"Philosophical Aspects of Cerebral Function"
"The Effects of Drugs on Brain Function"
"International and Cross-cultural Communication"
"Communication and Organizational Effectiveness"
"Human Interaction and Communications with Computers"

Total Lecture Attendance: 1288

The total lecture attendance of 1288 compares with total attendance of 2249 for seminars in 1963. This indicates a decrease of 961.

II. Correspondence Courses

Correspondence instruction is offered to any qualified person, any place in the world, who wishes to earn university credit, but cannot attend organized classes.

The following chart shows the extent of activity in the Correspondence area of the Division:
COMPARISON OF CORRESPONDENCE STATISTICS FOR LAST FIVE YEARS

<table>
<thead>
<tr>
<th>Year</th>
<th>No. of Courses Offered</th>
<th>New Enrollment Men</th>
<th>New Enrollment Women</th>
<th>Total New Enrollment</th>
<th>Percent Increase</th>
<th>Total States Represented</th>
<th>Total N.M. Counties Represented</th>
<th>Total Foreign Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>1959-60</td>
<td>72</td>
<td>381</td>
<td>216</td>
<td>597</td>
<td>8.3</td>
<td>28</td>
<td>24</td>
<td>4</td>
</tr>
<tr>
<td>1960-61</td>
<td>73</td>
<td>389</td>
<td>240</td>
<td>629</td>
<td>5.3</td>
<td>34</td>
<td>27</td>
<td>1</td>
</tr>
<tr>
<td>1961-62</td>
<td>74</td>
<td>410</td>
<td>301</td>
<td>711</td>
<td>13.1</td>
<td>36</td>
<td>25</td>
<td>1</td>
</tr>
<tr>
<td>1962-63</td>
<td>76</td>
<td>448</td>
<td>315</td>
<td>763</td>
<td>7.3</td>
<td>39</td>
<td>27</td>
<td>6</td>
</tr>
<tr>
<td>1963-64</td>
<td>75</td>
<td>453</td>
<td>355</td>
<td>808</td>
<td>5.8</td>
<td>37</td>
<td>27</td>
<td>6</td>
</tr>
</tbody>
</table>

The number of students actually enrolled in courses during 1963-64, including new enrollments, carry-overs, withdrawals and completions, was 1576. This compares with 1344 actively working on courses during 1962-63.

The following geographical distribution chart shows students from thirty-seven states and the District of Columbia, twenty-seven New Mexico counties, and six foreign countries:

GEOSPHERICAL DISTRIBUTION OF NEW CORRESPONDENCE ENROLLMENTS

<table>
<thead>
<tr>
<th>States</th>
<th>Foreign Countries</th>
<th>New Mexico Counties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alabama</td>
<td>Austria</td>
<td>Bernalillo</td>
</tr>
<tr>
<td>Arizona</td>
<td>El Salvador</td>
<td>Catron</td>
</tr>
<tr>
<td>California</td>
<td>Mexico</td>
<td>Chaves</td>
</tr>
<tr>
<td>Colorado</td>
<td>Newfoundland</td>
<td>Colfax</td>
</tr>
<tr>
<td>Connecticut</td>
<td>Paraguay</td>
<td>Curry</td>
</tr>
<tr>
<td>Delaware</td>
<td>Peru</td>
<td>Dona Ana</td>
</tr>
<tr>
<td>Delaware</td>
<td></td>
<td>Eddy</td>
</tr>
<tr>
<td>Florida</td>
<td></td>
<td>Grant</td>
</tr>
<tr>
<td>Georgia</td>
<td></td>
<td>Guadalupe</td>
</tr>
<tr>
<td>Idaho</td>
<td></td>
<td>Lea</td>
</tr>
<tr>
<td>Illinois</td>
<td></td>
<td>Lincoln</td>
</tr>
<tr>
<td>Indiana</td>
<td></td>
<td>Los Alamos</td>
</tr>
<tr>
<td>Kansas</td>
<td></td>
<td>McKinley</td>
</tr>
<tr>
<td>Kentucky</td>
<td></td>
<td>Otero</td>
</tr>
<tr>
<td>Louisiana</td>
<td></td>
<td>Quay</td>
</tr>
<tr>
<td>Maryland</td>
<td></td>
<td>Rio Arriba</td>
</tr>
<tr>
<td>Massachusetts</td>
<td></td>
<td>Roosevelt</td>
</tr>
<tr>
<td>Michigan</td>
<td></td>
<td>Sandoval</td>
</tr>
<tr>
<td>Minnesota</td>
<td></td>
<td>San Juan</td>
</tr>
<tr>
<td>Mississippi</td>
<td></td>
<td>San Miguel</td>
</tr>
<tr>
<td>Missouri</td>
<td></td>
<td>Santa Fe</td>
</tr>
<tr>
<td>Nebraska</td>
<td></td>
<td>Sierra</td>
</tr>
<tr>
<td>Nevada</td>
<td></td>
<td>Socorro</td>
</tr>
<tr>
<td>New Jersey</td>
<td></td>
<td>385</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>21</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

-6-
During the year 1963-64 the number of new students enrolled in Correspondence courses continued to increase, but not as substantially as has been noted in some previous years. We may still be feeling the effect of the increase in tuition, as suggested in last year's report, but we also need more offerings. With the publication in September, 1964, of the new catalogue, a few changes will be noted, as well as the use of the new course numbering system recently adopted by The University of New Mexico.

During the past year, the following changes were made in the old bulletin:

Courses deleted:

Civil Engineering 11L

Courses revised, partially or completely:

High School Algebra Education 135
History 51
History 52
Mathematics 1

The total number of courses available at the end of the year was 75.
In the period covered by this report, 296 students completed correspondence courses, representing 892 college credit hours, 2 non-credit, and 10 high school units. This compares with 746 credit hours, 2 non-credit, and 3 high school units earned in 1962-63.

Total lessons serviced, exclusive of tests and examinations, amounted to 13,227, compared with 11,855 in 1962-63.

Financially, the Division took in fees in the amount of $26,698.80 and spent for direct servicing of correspondence courses the sum of $11,980.56. Of this sum, $450.00 was spent for new courses or revisions. The total of fees taken in for 1962-63 was $24,449.22. USAFI textbook fees are included in money received, then paid from the correspondence account when billed by the Associated Students Bookstore. The sum of $893.01 was requisitioned to cover the bookstore billing, so a profit of $13,825.23, exclusive of salaries, office expense, etc. was realized.

United States Armed Forces Institute

In 1963-64, 112 new students were enrolled for correspondence instruction under the USAFI program, an increase of 29 over the previous year. Students in this program abide by the regulations of the university in respect to correspondence work except that they are allowed two years instead of one to complete a course. They are subject to a small enrollment fee, but the bulk of their tuition and the lesson service fees are covered by contract with the United States Government. The contract for the coming year has been approved, allowing continuance of this program at The University of New Mexico.
COMMUNITY COLLEGE

1. Credit Courses

This Division, through the Community College, is concerned with two aspects of credit work. First, all students classified in Non-Degree Status are under the jurisdiction of the Director of this Division. Secondly, the administration, promotion, and supervision of all evening classes are aspects of the Director's responsibilities. All classes scheduled after 3:30 p.m. are considered evening classes.

The following enrollment figures are reported for the period:

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Students</th>
<th>Percentage of Increase or Decrease over Corresponding Periods</th>
<th>Total for Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1960-61</td>
<td>1st</td>
<td>865</td>
<td>1.53% Increase</td>
<td>1598</td>
</tr>
<tr>
<td></td>
<td>2nd</td>
<td>733</td>
<td>5.17% Decrease</td>
<td></td>
</tr>
<tr>
<td>1961-62</td>
<td>1st</td>
<td>860</td>
<td>0.58% Decrease</td>
<td>1560</td>
</tr>
<tr>
<td></td>
<td>2nd</td>
<td>700</td>
<td>4.50% Decrease</td>
<td></td>
</tr>
<tr>
<td>1962-63</td>
<td>1st</td>
<td>951</td>
<td>10.58% Increase</td>
<td>1822</td>
</tr>
<tr>
<td></td>
<td>2nd</td>
<td>871</td>
<td>24.43% Increase</td>
<td></td>
</tr>
<tr>
<td>1963-64</td>
<td>1st</td>
<td>1038</td>
<td>9.15% Increase</td>
<td>1950</td>
</tr>
<tr>
<td></td>
<td>2nd</td>
<td>912</td>
<td>4.45% Increase</td>
<td></td>
</tr>
</tbody>
</table>

By examining the above chart, it is noted that during the past year the Non-Degree enrollment increased by 128 students which is a percentage increase of approximately 7% over the previous year.

It should be kept in mind that this Division, thus, had to prepare and maintain personal folders for 1950 students. Through these folders, we keep an up-to-date academic record on each student enrolled in Non-Degree status.
Naturally, we have 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 past year, 61 Non-Degree students were suspended; 289 students were put on probation; 100 students were continued on probation; and 20 students were released from probation.

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 that take only evening work. This, of course, adds a considerable number to evening enrollments; and the following chart gives comparative figures for the past five years:

**COMPARISON OF EVENING CLASS ENROLLMENTS DURING THE PAST FOUR YEARS**

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Students</th>
<th>Percentage of increase or Decrease over Corresponding Periods</th>
<th>Total for Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1960-61</td>
<td>1st</td>
<td>849</td>
<td>13.10% Decrease</td>
<td>1558</td>
</tr>
<tr>
<td></td>
<td>2nd</td>
<td>709</td>
<td>11.91% Decrease</td>
<td></td>
</tr>
<tr>
<td>1961-62</td>
<td>1st</td>
<td>898</td>
<td>5.77% Increase</td>
<td>1768</td>
</tr>
<tr>
<td></td>
<td>2nd</td>
<td>870</td>
<td>22.71% Increase</td>
<td></td>
</tr>
<tr>
<td>1962-63</td>
<td>1st</td>
<td>902</td>
<td>.45% Increase</td>
<td>1774</td>
</tr>
<tr>
<td></td>
<td>2nd</td>
<td>872</td>
<td>.23% Increase</td>
<td></td>
</tr>
<tr>
<td>1963-64</td>
<td>1st</td>
<td>951</td>
<td>5.43% Increase</td>
<td>1838</td>
</tr>
<tr>
<td></td>
<td>2nd</td>
<td>887</td>
<td>1.72% Increase</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL INCREASE: 3.61% over 1962-63**

By studying the above chart, one notices that the number of night students for the 1963-64 school year showed an increase of 3.61% over the preceding year.

We still insist that if we offered more night courses in certain departments, we would be able to increase the number of enrollees in
night classes. This of course, would be of considerable advantage to the University. It is our considered opinion, as stated before, that departments could do much more in serving the community by offering night courses. There is certainly the demand from our citizens for this kind of service.

During the year, we continued our contract with Sandia Corporation for a student subsidy program. Under this agreement, Sandia Corporation repays part of the student tuition to the student if he makes at least "C" grades in his courses, and also makes a subsidy payment to the University for each student enrolled. This, of course, is stimulating corporation employees, in increasing numbers, to enroll for credit courses.

II. Non-Credit Courses

Non-credit courses are offered for adults, regardless of their educational backgrounds, who are interested in educational growth in vocational and professional fields, or as a means to better enjoyment of leisure time by becoming proficient in an avocation. The activities of the non-credit section of the Community College are shown in the following tables:

<table>
<thead>
<tr>
<th>COMMUNITY EVENING COLLEGE 1963-64</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>11</td>
</tr>
<tr>
<td>TOTALS:</td>
</tr>
</tbody>
</table>

A comparison of the non-credit program for the reporting period and the two previous years is given in the following table:
This shows a decrease of 270 students, or 10.4% fewer than last year, and a $14,845 profit, or 30.1% increase in net profit to the University over the preceding year. Beginning with the 1963-64 school year, salaries for non-credit instructors were raised from $8.50 per classroom hour to $10.00 per hour, and the fees for classes were raised from $12.00 to $15.00 for 12-week courses, and from $16.00 to $20.00 for 16-week courses. As the budget for salaries was not raised in proportion to the salary increase, 11 fewer classes were offered than in the previous year. This would explain the decrease in enrollment. The budget increase for the 1964-65 school year will allow an increase in the number of classes offered and therefore increase enrollments. The increase in net profit is explained by the increase in fees.

By general subject areas, the total enrollment in the non-credit section was broken down as follows:

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Enrollment</th>
<th>Income</th>
<th>Pay</th>
<th>Profit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business</td>
<td>21.06%</td>
<td>$33,742</td>
<td>$22,013</td>
<td>$11,729</td>
</tr>
<tr>
<td>Vocational</td>
<td>21.40%</td>
<td>34,262</td>
<td>22,850</td>
<td>11,412</td>
</tr>
<tr>
<td>Arts &amp; Crafts</td>
<td>13.01%</td>
<td>38,490</td>
<td>23,645</td>
<td>14,845</td>
</tr>
</tbody>
</table>

Our efforts to capitalize on popular interests continue, and it is the policy of the Division to offer any course for which there is an expressed interest and for which there are adequate facilities and quality instruction can be provided. This year, eleven entirely new courses were developed and offered.

Of the thirty-eight faculty members in the non-credit section this year, nine were regular University faculty members. The other twenty-
nine were townspeople who are recognized experts in their respective fields.

The cooperative plan between the University and the New Mexico State Department of Vocational Education is still in effect. The University is receiving compensation equal to one-half of the cost of certain courses of a distributive education nature.

There is an increasing awareness on the part of our local adult population of the need for continuing their education in order to acquire a higher degree of knowledge, a keener intelligence, improved skills, and more beneficial use of leisure time. This growing awareness, coupled with an intensive publicity campaign to acquaint these adults with the University program designed to meet these needs, has resulted in the great expansion of our non-credit program. A total of 9,600 Community College Bulletins were distributed during the reporting period. Excellent coverage of our program by the local press, radio, and television stations was also of great help in our campaign to acquaint the citizenry with the University and its non-credit offerings.

The Community College is constantly in contact with the Information and Education Offices at Kirtland and Manzano Air Force Bases, and with the Educational and Training Offices at Sandia Corporation. It is through our close alliance with these offices that we receive much cooperation, and consequently, higher enrollments.
CONFERENCES, INSTITUTES, AND SHORT COURSES

Educational activities designed for adults who are not concerned with the more formal credit offerings are considered to be in the continuing education program. Conferences, institutes, short courses, workshops, community development programs, and non-credit courses are classed in this field.

Adults, who are interested in the above program, take active part in one or more of the several activities in order to help themselves become more proficient in their work or to better enjoy leisure time. Interest in continuing education activities is mounting rapidly each year. Requests for available University facilities to carry on intensified informational or instructional activities of short duration are, also, increasing.

The Division of Extension, Summer Session, and Community Services acts as a coordinator and clearing house, by direction of the President of The University of New Mexico, for all conferences, institutes, and short courses, of a non-academic nature originated by campus personnel, and for all requests from outside sources to use campus facilities. During the past year, some instances have occurred when campus personnel have neglected to inform the Division of Extension of an anticipated activity until letters of invitation had been sent and an answer received, from the organization involved, accepting the invitation. Sometimes word is not received by this Division until all plans have been formulated. Whenever these things occur, difficulties arise in the scheduling of available facilities. In order to minimize embarrassing situations and to keep good public relations with the people concerned,
all conferences, institutes, large meetings, etc., should be scheduled on the University calendar of events in the Division of Extension before any commitments are made.

Our connection with each scheduled activity for adults varies as far as major or minor responsibility is concerned. It is the policy of the Division to form a planning committee with each requesting organization, composed of three members of the off-campus group, a member from each department at the University that will be involved in the activity, and one member from the Division of Extension who acts as coordinator of the activity.

There has been a steady decrease in the kind of facilities available for conferences, etc., even with the increased building program on campus. The number of residence students attending The University of New Mexico, both during the day and at night, is increasing each semester. The increased enrollment requires more classroom space, thus decreasing facilities available for continuing education programs. The steady increase in the number of requests for facilities for adult activities has forced this Division to refuse some proposed meetings and limit attendance at others.

It is necessary to enlist the help of some of the motels and hotels in Albuquerque each time an activity is held on campus which requires housing. The campus housing facilities will not take care of all the students attending the University so adults attending programs from outside Albuquerque have to find housing facilities elsewhere. We have found that hotel and motel managers are happy to cooperate with the University but the problem of scheduling non-university events with university events takes cooperation. During the summer months, campus
housing and meeting room facilities which are available are consistently used by continuing education groups. Summer Session enrollments are increasing each year and summer activities are expanding to keep pace with the increase. Eventually, available space for adult education activities during the summer will be utilized by residence students, thus restricting these educational activities in the summer as well as during the regular semesters.

Meeting rooms in the New Mexico Union are utilized by the Division as much as possible. The Division encourages people connected with educational off-campus activities to plan their programs in the New Mexico Union during the summer months because students have few scheduled activities at that time. During the fall and spring semesters, however, scheduling of student activities in the Union have priority over outside meetings and conferences. Excellent cooperation has been received with personnel at the New Mexico Union, and space is made available to the Division when not otherwise used by campus organizations. Requests for facilities in the Union are many because of their excellence and a system of charges had to be established for off-campus organizations. Increased enrollments each year bring increased demands on the New Mexico Union by students for their activities which decreases available space for continuing education activities.

Requests are received each year by various organizations for facilities to hold meetings free of charge. Some of these requests are from deserving organizations and committees which operate without a budget. For the sake of good public relations, the Division has responded favorably to such requests and provided classrooms in other buildings on campus, if available.
Each time new classrooms are built there is an increase of available space but such facilities are almost immediately needed for the increase of residence students. This was true for both the College of Education buildings and the College of Fine Arts building.

1. Conferences

During the academic year 1963-64, sixty conferences, training classes, and other activities of two-days duration or over were planned and conducted in cooperation with the University. The sixty conferences involved 22,561 people. The number of activities are three less than last year due to available space, however there is an increase of over 3,000 people attending. A list of the conferences and other activities follows:

<table>
<thead>
<tr>
<th>Conference</th>
<th>Dates Held</th>
<th>Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Mexico Music Teachers Association</td>
<td>July 22-23, 1963</td>
<td>151</td>
</tr>
<tr>
<td>Custodians Conference</td>
<td>July 25-26</td>
<td>126</td>
</tr>
<tr>
<td>Cheerleaders Clinic</td>
<td>July 28 - Aug. 2</td>
<td>251</td>
</tr>
<tr>
<td>Coaching Clinic</td>
<td>Aug. 3-10</td>
<td>198</td>
</tr>
<tr>
<td>Officials Clinic</td>
<td>Aug. 9-10</td>
<td>88</td>
</tr>
<tr>
<td>New Mexico Association of Student Councils Workshop</td>
<td>Aug. 11-16</td>
<td>610</td>
</tr>
<tr>
<td>Theresians</td>
<td>Aug. 17-19</td>
<td>1,890</td>
</tr>
<tr>
<td>Order of the Arrow</td>
<td>Aug. 19-23</td>
<td>481</td>
</tr>
<tr>
<td>Albuquerque Flood Control Authority</td>
<td>Aug. 20-22</td>
<td>101</td>
</tr>
<tr>
<td>National Conference of Professors of Education Administrators</td>
<td>Aug. 22-27</td>
<td>221</td>
</tr>
<tr>
<td>Practical Nurses Exam</td>
<td>Aug. 26-27</td>
<td>60</td>
</tr>
<tr>
<td>Yearbook Seminar</td>
<td>Sept. 6-7</td>
<td>206</td>
</tr>
<tr>
<td>N.M.E.A. Workshop</td>
<td>Sept. 9-12</td>
<td>136</td>
</tr>
<tr>
<td>New Mexico Mapping Advisory Committee</td>
<td>Sept. 27-28</td>
<td>25</td>
</tr>
<tr>
<td>American Nuclear Society</td>
<td>Oct. 1-3</td>
<td>456</td>
</tr>
<tr>
<td>Nurses Exam</td>
<td>Oct. 2-3</td>
<td>40</td>
</tr>
<tr>
<td>Air Pollution Conference</td>
<td>Oct. 3-4</td>
<td>45</td>
</tr>
<tr>
<td>Governors Conference on Vocational Education</td>
<td>Oct. 6-8</td>
<td>498</td>
</tr>
<tr>
<td>Public Officials Conference</td>
<td>Oct. 7-8</td>
<td>86</td>
</tr>
<tr>
<td>Conference</td>
<td>Dates Held</td>
<td>Enrollment</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>-------------</td>
<td>------------</td>
</tr>
<tr>
<td>Motor Fleet Supervisors Course</td>
<td>Oct. 7-11</td>
<td>33</td>
</tr>
<tr>
<td>Association of Podiatrists</td>
<td>Oct. 11-13</td>
<td>45</td>
</tr>
<tr>
<td>Problems of Dropouts</td>
<td>Oct. 22-23</td>
<td>198</td>
</tr>
<tr>
<td>Art Exhibit</td>
<td>Oct. 24-26</td>
<td></td>
</tr>
<tr>
<td>New Mexico Education Association</td>
<td>Oct. 23-26</td>
<td>10,100</td>
</tr>
<tr>
<td>New Mexico Conference for Human Development</td>
<td>Nov. 6-8</td>
<td>280</td>
</tr>
<tr>
<td>C.P.A. Exam</td>
<td>Nov. 6-8</td>
<td>58</td>
</tr>
<tr>
<td>Explorer Scouts Conference</td>
<td>Nov. 8-9</td>
<td>210</td>
</tr>
<tr>
<td>Paving Conference</td>
<td>Dec. 5-6</td>
<td>179</td>
</tr>
<tr>
<td>Forensic Tournament</td>
<td>Dec. 5-7</td>
<td>428</td>
</tr>
<tr>
<td>Disaster Medical Care</td>
<td>Dec. 7-8</td>
<td>126</td>
</tr>
<tr>
<td>Governors Conference on Mental Retardation</td>
<td>Dec. 9-10</td>
<td>281</td>
</tr>
<tr>
<td>Southwestern Philosophical Society</td>
<td>Dec. 19-21</td>
<td>68</td>
</tr>
<tr>
<td>Abo Research Design Conference</td>
<td>Jan. 8-10, 1964</td>
<td>102</td>
</tr>
<tr>
<td>School Administrators Workshop</td>
<td>Jan. 16-17</td>
<td>98</td>
</tr>
<tr>
<td>All-State Music Clinic</td>
<td>Jan. 23-25</td>
<td>462</td>
</tr>
<tr>
<td>Dental Seminar</td>
<td>Jan. 26-28</td>
<td>81</td>
</tr>
<tr>
<td>Nursing Exam</td>
<td>Feb. 6-7</td>
<td>35</td>
</tr>
<tr>
<td>Seminar on Mental Health</td>
<td>Feb. 13-14</td>
<td>88</td>
</tr>
<tr>
<td>Waterlous</td>
<td>Feb. 20-22</td>
<td>481</td>
</tr>
<tr>
<td>Western Association of Graduate Schools</td>
<td>Feb. 23-25</td>
<td>93</td>
</tr>
<tr>
<td>Regional Science Fair</td>
<td>Mar. 20-21</td>
<td></td>
</tr>
<tr>
<td>The Church in Albuquerque</td>
<td>Mar. 31 - April 3</td>
<td>206</td>
</tr>
<tr>
<td>Junior Classical League</td>
<td>April 3-4</td>
<td>388</td>
</tr>
<tr>
<td>State Division of A.A.U.W.</td>
<td>April 3-4</td>
<td>138</td>
</tr>
<tr>
<td>Distributive Education Conference</td>
<td>April 9-10</td>
<td>298</td>
</tr>
<tr>
<td>Kiva Club Conference</td>
<td>April 9-11</td>
<td>318</td>
</tr>
<tr>
<td>National Secretaries Association Conference</td>
<td>April 18</td>
<td>126</td>
</tr>
<tr>
<td>Nuclear Engineering Conference</td>
<td>April 23-24</td>
<td>208</td>
</tr>
<tr>
<td>Association of Supervision &amp; Curriculum Development</td>
<td>April 24-25</td>
<td>125</td>
</tr>
<tr>
<td>Industrial Arts Teachers Fair</td>
<td>April 30 - May 1</td>
<td></td>
</tr>
<tr>
<td>Bromedical Science &amp; Instrumental Symposium</td>
<td>May 3-7</td>
<td>396</td>
</tr>
<tr>
<td>High School District Track Meet</td>
<td>May 8-9</td>
<td></td>
</tr>
<tr>
<td>Practical Nurses Exam</td>
<td>June 1-2</td>
<td>36</td>
</tr>
<tr>
<td>Veterans of World War I</td>
<td>June 3-5</td>
<td>306</td>
</tr>
<tr>
<td>Police &amp; Community Relations</td>
<td>June 9</td>
<td>72</td>
</tr>
<tr>
<td>Joint Committee for Effective Justice</td>
<td>June 11-13</td>
<td>124</td>
</tr>
<tr>
<td>Girls State Activities</td>
<td>June 14-21</td>
<td>361</td>
</tr>
<tr>
<td>Department of Public Welfare</td>
<td>June 15-17</td>
<td>20</td>
</tr>
<tr>
<td>School Lunch Program</td>
<td>June 15-19</td>
<td>309</td>
</tr>
<tr>
<td>New Mexico Bookmen</td>
<td>June 25-26</td>
<td>15</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>22,561</strong></td>
</tr>
</tbody>
</table>
As may be expected, working with committees for a large number of conferences is no small job. Some conferences require only a small amount of time while others require, in addition to close planning, the presence of a staff member at the conference at all times. Favorable public opinion may be gained, however, when services to help manage a conference are offered. All actual expenses incurred by the before mentioned activities are paid for by the organizations concerned.

II. Institutes and Short Courses

During the academic year 1963-64, forty-three institutes and short courses involving 1,386 persons were planned in cooperation with University personnel and conducted on the campus. A list of such activities follows:

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Dates Held</th>
<th>Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Aid Training Course</td>
<td>Aug.-Sept. 1963</td>
<td>30</td>
</tr>
<tr>
<td>New Mexico Illuminating Engineers</td>
<td>Sept.-Oct.</td>
<td>78</td>
</tr>
<tr>
<td>Medical Self-Help</td>
<td>Sept.-Oct.</td>
<td>38</td>
</tr>
<tr>
<td>Physiology Seminar for Practical Nurses</td>
<td>Semester 1</td>
<td>21</td>
</tr>
<tr>
<td>American Institute of Banking</td>
<td>Semester 1</td>
<td>72</td>
</tr>
<tr>
<td>American Institute of Banking</td>
<td>Semester 1</td>
<td>28</td>
</tr>
<tr>
<td>American Institute of Banking</td>
<td>Semester 1</td>
<td>31</td>
</tr>
<tr>
<td>American Institute of Banking</td>
<td>Semester 1</td>
<td>36</td>
</tr>
<tr>
<td>Fallout Shelter Analysis</td>
<td>Semester 1</td>
<td>20</td>
</tr>
<tr>
<td>Seminar for Insurance Adjusters</td>
<td>Semester 1</td>
<td>23</td>
</tr>
<tr>
<td>Oral &amp; Written Communications for Secretaries</td>
<td>Semester 1</td>
<td>56</td>
</tr>
<tr>
<td>Pharmacology for Practical Nurses</td>
<td>Semester 1</td>
<td>17</td>
</tr>
<tr>
<td>Chartered Life Underwriters' Course</td>
<td>Semester 1</td>
<td>20</td>
</tr>
<tr>
<td>Chartered Life Underwriters' Course</td>
<td>Semester 1</td>
<td>18</td>
</tr>
<tr>
<td>Driver Training Class</td>
<td>Semester 1</td>
<td>41</td>
</tr>
<tr>
<td>Freedom vs. Communism</td>
<td>Oct.-Nov.</td>
<td>15</td>
</tr>
<tr>
<td>Life Underwriters' Training Course</td>
<td>Semester 1</td>
<td>28</td>
</tr>
<tr>
<td>Life Underwriters' Training Course</td>
<td>Semester 1</td>
<td>23</td>
</tr>
<tr>
<td>Life Underwriters' Training Course</td>
<td>Semester 1</td>
<td>16</td>
</tr>
<tr>
<td>Medical Terminology</td>
<td>Semester 1</td>
<td>28</td>
</tr>
<tr>
<td>First Aid Training Course</td>
<td>Oct.-Nov.</td>
<td>31</td>
</tr>
<tr>
<td>Theory Class on Oscilloscopes</td>
<td>Oct.-Nov.</td>
<td>37</td>
</tr>
</tbody>
</table>
As in the case of the conferences, the institutes and short courses required much help and planning on the part of the Division staff. The institute and short course differs from the conference in that intensified study is given to solving problems pertaining to one type of business or profession with the interested members bringing up practical problems which have occurred in their own line of endeavor. Many favorable comments were received concerning these specialized activities. More special institutes are asked for each year. Classroom space is becoming the determining factor as to whether institutes and short courses can or cannot be developed by the Division.

In addition to facilities used by conferences, institutes, and short courses, there are many requests from private and civic organizations and
clubs for meeting room space. These requests are for space during the day as well as night. Such requests were granted if space was available. A schedule of charges has been developed for all meeting rooms according to size and furnishings. Non-university connected organizations and groups are charged nominal fees for use of meeting facilities.

IV. **Community Services**

The Community Service Section of the Division of Extension was involved in making University facilities available for programs and activities of the following nature:

- Fourth of July celebration in the University Stadium,
- Lectures on many subjects in the Johnson Gymnasium and Anthropology Lecture Hall,
- Music concerts in the Fine Arts Auditorium, Johnson Gymnasium, Anthropology Lecture Hall, and the Kiva,
- Sports events at the University Stadium and the Johnson Gymnasium,
- Use of facilities by the Albuquerque Public Schools for Baccalaureate and Commencement,
- Easter Sunrise Service in the University Stadium,
- Facilities as precincts on election days,
- Homecoming Activities, and
- Use of facilities for The University of New Mexico students' extra-curricular activities.

Such activities and events are sponsored by people or groups of people from Albuquerque and vicinity and from the State and use facilities on the University campus when available. These facilities usually include the Fine Arts Building, Johnson Gymnasium, Carlisle Gymnasium, the University Stadium, the Kiva, and the Anthropology, Science, and Geology Lecture Halls.

V. **Summary**

The activities of this Department in the Division of Extension involved over 70,000 persons during the academic year 1963-64. This was an increase of at least 5,000 persons over the previous academic
year. This is a large public following and good will must be kept.
We will try to meet the increasing demand for services to the community.
We, of course, are limited by campus facilities, and must look to the
day when the Division can have its own Continuing Education Building.

There was an increasing interest in conferences, institutes, and
short courses during the year. Plans for some large institutes and
conferences for next year have already begun. This increase is occurring
even though many activities will have to be scheduled off campus and at
times when the University is not in session and during vacation periods.

It is the intention of this Division to continue to use available
facilities on weekends and during vacation periods for as many continuing
education activities as space will allow. Such a plan of action is
necessary in order to keep up good public relations which are already
established.
1. **Statistical Analysis**

The 1964 summer session closed with a total enrollment of 3743 students. This is an increase of 224 students or 6.37% over the figure of 3519 students enrolled in 1963. Enrollment figures in the 1964 graduate program showed a slight decrease while the 1964 undergraduate enrollment was 11.37% above figures in 1963.

In the next chart, you get a picture of the enrollments during the last seven years. We point out the sharp increase in the number of summer students that come from the state of New Mexico. The number of out-of-state and foreign students show only a slight increase even though we are making every effort to encourage their attendance.

**COMPARISONS OF ENROLLMENTS IN SUMMER SESSION FOR THE LAST SEVEN YEARS - 1958-1964**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>2334</td>
<td>2263</td>
<td>2560</td>
<td>3049</td>
<td>3191</td>
<td>3519</td>
<td>3743</td>
</tr>
<tr>
<td>Men</td>
<td>1279</td>
<td>1252</td>
<td>1391</td>
<td>1432</td>
<td>1616</td>
<td>1717</td>
<td>1956</td>
</tr>
<tr>
<td>Women</td>
<td>1055</td>
<td>1011</td>
<td>1169</td>
<td>1617</td>
<td>1575</td>
<td>1802</td>
<td>1787</td>
</tr>
<tr>
<td>Home State</td>
<td>2003</td>
<td>1825</td>
<td>2064</td>
<td>2540</td>
<td>2525</td>
<td>2824</td>
<td>2992</td>
</tr>
<tr>
<td>Out-of-State and Foreign</td>
<td>331</td>
<td>438</td>
<td>496</td>
<td>509</td>
<td>666</td>
<td>695</td>
<td>751</td>
</tr>
<tr>
<td>Undergraduate</td>
<td>1490</td>
<td>1439</td>
<td>1556</td>
<td>1949</td>
<td>1945</td>
<td>2216</td>
<td>2468</td>
</tr>
<tr>
<td>Graduate</td>
<td>844</td>
<td>824</td>
<td>1004</td>
<td>1100</td>
<td>1246</td>
<td>1303</td>
<td>1275</td>
</tr>
</tbody>
</table>

The three graphs which follow are visual and depict enrollment figures for the last seven years:
SUMMER SESSION ENROLLMENTS

Number of Students

Total Enrollments

Home State Enrollments

Out-of-State & Foreign Enrollments
GRAPH II

SUMMER SESSION ENROLLMENTS

Number of Students

3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0


Total Enrollment

Total Men

Total Women
Enrollment figures for the summers of 1955 through 1964 are listed below with the percentage of resident and non-resident students noted as well as the percentage of those who attended as graduate students.

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>% Resident</th>
<th>% Non-Resident</th>
<th>Graduate</th>
<th>% Graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1955</td>
<td>1429</td>
<td>81.0</td>
<td>19.0</td>
<td>486</td>
<td>34.00</td>
</tr>
<tr>
<td>1956</td>
<td>1598</td>
<td>82.0</td>
<td>18.0</td>
<td>465</td>
<td>29.09</td>
</tr>
<tr>
<td>1957</td>
<td>1962</td>
<td>85.0</td>
<td>15.0</td>
<td>608</td>
<td>30.98</td>
</tr>
<tr>
<td>1958</td>
<td>2334</td>
<td>86.0</td>
<td>14.0</td>
<td>749</td>
<td>32.09</td>
</tr>
<tr>
<td>1959</td>
<td>2263</td>
<td>81.0</td>
<td>19.0</td>
<td>824</td>
<td>36.41</td>
</tr>
<tr>
<td>1960</td>
<td>2560</td>
<td>81.0</td>
<td>19.0</td>
<td>1004</td>
<td>39.22</td>
</tr>
<tr>
<td>1961</td>
<td>3049</td>
<td>83.3</td>
<td>16.7</td>
<td>1100</td>
<td>36.08</td>
</tr>
<tr>
<td>1962</td>
<td>3191</td>
<td>79.13</td>
<td>20.87</td>
<td>1246</td>
<td>39.05</td>
</tr>
<tr>
<td>1963</td>
<td>3519</td>
<td>80.22</td>
<td>19.78</td>
<td>1303</td>
<td>37.83</td>
</tr>
<tr>
<td>1964</td>
<td>3743</td>
<td>79.94</td>
<td>20.06</td>
<td>1275</td>
<td>34.06</td>
</tr>
</tbody>
</table>

The chart below shows a breakdown of enrollments by colleges:

**COMPARISON OF 1964 SUMMER SESSION ENROLLMENTS BY COLLEGES**

<table>
<thead>
<tr>
<th>College</th>
<th>Men</th>
<th>Women</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>University</td>
<td>291</td>
<td>217</td>
<td>508</td>
</tr>
<tr>
<td>Arts and Sciences</td>
<td>271</td>
<td>167</td>
<td>438</td>
</tr>
<tr>
<td>Business Administration</td>
<td>74</td>
<td>12</td>
<td>86</td>
</tr>
<tr>
<td>Education</td>
<td>110</td>
<td>202</td>
<td>312</td>
</tr>
<tr>
<td>Engineering</td>
<td>193</td>
<td>0</td>
<td>193</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>66</td>
<td>54</td>
<td>120</td>
</tr>
<tr>
<td>Nursing</td>
<td>0</td>
<td>32</td>
<td>29</td>
</tr>
<tr>
<td>Pharmacy</td>
<td>28</td>
<td>3</td>
<td>31</td>
</tr>
<tr>
<td>Graduate</td>
<td>659</td>
<td>616</td>
<td>1275</td>
</tr>
<tr>
<td>Law</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Non-Degree</td>
<td>261</td>
<td>487</td>
<td>748</td>
</tr>
<tr>
<td><strong>TOTALS:</strong></td>
<td>1956</td>
<td>1787</td>
<td>3743</td>
</tr>
</tbody>
</table>

Enrollment figures for workshops and concentrated courses of three weeks' duration or less are listed below:
<table>
<thead>
<tr>
<th>Title of Workshop</th>
<th>Length of Workshop</th>
<th>Total Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art Ed 429A (Creative Approach to Book Design)</td>
<td>2 weeks</td>
<td>35</td>
</tr>
<tr>
<td>Art Ed 429B (The Oriental Approach to Art Education)</td>
<td>2 weeks</td>
<td>63</td>
</tr>
<tr>
<td>Ed Adm 529A (The Administrator and Teaching)</td>
<td>1 week</td>
<td>26</td>
</tr>
<tr>
<td>Ed Adm 629 (Data Processing in School Administration)</td>
<td>2 weeks</td>
<td>23</td>
</tr>
<tr>
<td>Guid 529B (Guidance in the Elementary School)</td>
<td>2 weeks</td>
<td>63</td>
</tr>
<tr>
<td>Guid 529C (Guidance for the Culturally Disadvantaged)</td>
<td>2 weeks</td>
<td>44</td>
</tr>
<tr>
<td>El Ed 429A (Supervision of Elem School Student Teaching)</td>
<td>2 weeks</td>
<td>54</td>
</tr>
<tr>
<td>H Ed 402 (Traffic Safety Education in Secondary Schools)</td>
<td>3 weeks</td>
<td>28</td>
</tr>
<tr>
<td>H Ec 429 (Recent Developments in Nutrition)</td>
<td>2 weeks</td>
<td>19</td>
</tr>
<tr>
<td>Nurs 429 (Leadership for Nursing Care of Hospitalized Patients)</td>
<td>2 weeks</td>
<td>11</td>
</tr>
<tr>
<td>Phil 429 (Aesthetics Institute Workshop)</td>
<td>1 week</td>
<td>27</td>
</tr>
<tr>
<td>Psy 429A (Programmed Learning)</td>
<td>2 weeks</td>
<td>61</td>
</tr>
<tr>
<td>Psy 429B (Child Intelligence Testing)</td>
<td>2 weeks</td>
<td>21</td>
</tr>
</tbody>
</table>

The geographical summary for the regular 1964 summer session is shown in the chart that follows:

<table>
<thead>
<tr>
<th>Geographic Summary</th>
<th>Men</th>
<th>Women</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Mexico</td>
<td>1459</td>
<td>1533</td>
<td>2992</td>
</tr>
<tr>
<td>Other States</td>
<td>442</td>
<td>243</td>
<td>685</td>
</tr>
<tr>
<td>Territories and Foreign Countries</td>
<td>55</td>
<td>11</td>
<td>66</td>
</tr>
<tr>
<td><strong>TOTALS:</strong></td>
<td><strong>1956</strong></td>
<td><strong>1787</strong></td>
<td><strong>3743</strong></td>
</tr>
</tbody>
</table>
It is interesting to note that in 1964, senior enrollment increased from 422 in 1963 to 544; junior enrollment decreased from 410 in 1963 to 397; sophomore enrollment increased from 375 in 1963 to 445; and freshmen enrollment increased from 199 in 1963 to 269. Non-Degree enrollments increased from 737 in 1963 to 748.

It is to be noted that a substantial increase in freshmen enrollment was realized during the 1964 summer session. This was probably due, to some extent, to the special effort put forth to attract high school graduates to the University. Special brochures were prepared and made available to these graduates.

One significant statistic which definitely reveals the growth of the 1964 summer session is found in the increase of total credit hours from 17,864 in 1963 to 19,840 in 1964. The full-time equivalent based on eight credit hours in 1963 was 2,232, while in 1964 it was 2,480.

Again in 1964, the faculty salaries were based on 20% of the annual salary, but the maximum was set at $2,200 instead of $2,000 as it was in 1963.

11. Staff

The 1964 Summer Session employed 140 resident faculty members as contrasted with 129 in 1963, and 36 qualified visiting professors, whereas, we had 32 in 1963 to serve in the departments where outside help was needed. The following were members of the Guest Faculty for the 1964 Summer Session:

Sister Mary Annette, R.S.M., M.A., Marquette University, Milwaukee, Wisconsin. Director of the School of Nursing, Saint Xavier College, Chicago, Illinois.
Clifford Bartlett, M.S.C., University of Durham, England. Teaching at the Royal College of Science and Technology, Glasgow, Scotland.

David Boroff, M.A., Brooklyn College. Associate Professor of English, New York University.

Leo Bushman, M.A., Teachers College, Columbia University. Head of Fine Arts at the Institute of American Indian Art, Santa Fe, New Mexico.

Stanley Caplan, D.Ed., University of California at Berkeley. Associate Professor at The University of New Mexico, Albuquerque.

Wesley Childers, Ph.D., University of Chicago. Professor of Spanish, Parsons College, Fairfield, Iowa.


Everett Dillman, M.B.A., The University of New Mexico. Doctoral Candidate, University of Texas.

Jack L. Dyer, M.A., University of North Carolina. Graduate Assistant in the Department of Sociology, University of Colorado.

Harry D. Edgren, Ph.D., Purdue University. Professor of Recreational Leadership, Purdue University, Lafayette, Indiana.

Robert Farley, M.A., University of New Mexico. Visiting Director of Music Festival. Now Assistant Professor of Music and Director of Band at the University of Alaska, College, Alaska.


Bernard Hanson, M.A., The State University of Iowa. Associate Professor at Philadelphia Museum College of Art.

Burton Henry, Ph.D., University of Southern California. Professor of Education, Los Angeles State College.

James W. Hughes, M.A., University of New Mexico. Supervisor of Student Teachers at State University College, Buffalo, New York.

Lawrence B. Kiddle, Ph.D., University of Wisconsin, Professor of Romance Languages, University of Michigan, Ann Arbor, Michigan.

Philip A. Macklin, Ph.D., Columbia University. Professor of Physics, Miami University, Oxford, Ohio.

Joyce Morris, M.A., The University of New Mexico. Teaching at Santo Domingo Public School.

Fred R. Nelson, M.A., University of Wisconsin, Coordinator of Elementary Education in Albuquerque Public Schools.
Gordon E. Porter, B.A., Utah State University. Instructor of Spanish and Portuguese, University of Arizona, Tucson, Arizona.


Howard Quint, Ph.D., University of Massachusetts. Professor of History, University of Massachusetts.

David W. Roeder, M.A., University of California at Berkeley. Teaching Assistant, University of California at Berkeley.


A. K. Sarkar, Ph.D., D.Litt., Patna University. Senior Lecturer at the University of Ceylon, Peradeniya.

Helen E. Saunders, B.S., University of Illinois. Librarian, Valley High School, Albuquerque.

James Ralston Scobie, Ph.D., Harvard University, Cambridge, Massachusetts. Assistant Professor of History, University of California.

Oli Sihvonen, Professional Artist in Taos.

Goodsell Slocum, M.A., The University of New Mexico. Instructor in Highland High School.


Bernard H. Voges, Ed.D., University of Missouri. Director of School Finance and Statistics, Missouri State Department of Education.


Tom Wiley, M.A., The University of New Mexico. Graduate Assistant in the College of Education, The University of New Mexico, Albuquerque.

Paul Williams, Ph.D., Teachers College, Columbia University. Professor of Education, Mt. Holyoke College, South Hadley, Massachusetts.


III. Special Events

The program of special events for the 1964 Summer Session were
especially well received since they proved entertaining as well as educational. The following are considered worthy of note:

A. Lectures Under the Stars

These lectures were held on the patio in front of the Administration Building and were exceptionally well attended with a total of 5,950 people.

<table>
<thead>
<tr>
<th>Date</th>
<th>Title</th>
<th>Speaker</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 29</td>
<td>&quot;India and the West&quot;</td>
<td>K. Shanthi Rangarao</td>
<td>1000</td>
</tr>
<tr>
<td>July 6</td>
<td>&quot;The Sky's the Limit&quot;</td>
<td>John Furbay</td>
<td>1050</td>
</tr>
<tr>
<td>July 13</td>
<td>&quot;Our Changing Heritage&quot;</td>
<td>W. Emerson Scott</td>
<td>1150</td>
</tr>
<tr>
<td>July 20</td>
<td>&quot;The Cultural Supermarket&quot;</td>
<td>David Boroff</td>
<td>1000</td>
</tr>
<tr>
<td>July 27</td>
<td>&quot;Education for the Creative Arts Today&quot;</td>
<td>Bernard Hanson</td>
<td>950</td>
</tr>
<tr>
<td>Aug. 3</td>
<td>&quot;Three Decades in Retrospect&quot;</td>
<td>Howard Quint</td>
<td>800</td>
</tr>
</tbody>
</table>

TOTAL ATTENDANCE: 5950

B. Musical Events

The Senior High School Music Festival Concert was presented, under the direction of Bob Farley, on June 20. The University of New Mexico Band, under the direction of William E. Rhoads, presented concerts on July 1, 14, and August 4. James Thornton presented the UNM Orchestra in a concert on August 6.

C. Student Dances

A student dance was held in the New Mexico Union Ballroom on July 9 with music furnished by the Jack Shearing Orchestra. Lee Sprague's Orchestra played for the student dance on July 23.

D. Special Attractions

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 30</td>
<td>The Silver Spurs</td>
</tr>
<tr>
<td>July 7</td>
<td>The New York Chamber Soloists</td>
</tr>
<tr>
<td>July 16</td>
<td>Marta Becket--Dance-Mime</td>
</tr>
<tr>
<td>July 17</td>
<td>75th Anniversary Lecture: William Ebenstein</td>
</tr>
<tr>
<td></td>
<td>&quot;Marxism, Communism, &amp; Socialism&quot;</td>
</tr>
<tr>
<td>July 21</td>
<td>Mid-Summer Hoot</td>
</tr>
</tbody>
</table>

-32-
July 28  Piano Concert: James Sykes
July 30  Kaleidoscope Players: "The World of Carl Sandburg"
August 15  Gallup Indian Ceremonial Trip

E. Movies

The following were the eight movies presented in the Union Ballroom:

June 24  "If A Man Answers"
July 1  "Portrait in Black"
July 8  "Midnight Story"
July 15  "No Man Is an Island"
July 22  "Purple Plain"
July 29  "Last Sunset"
August 5  "Run for Cover"
August 12  "Tammy Tell Me True"

F. Recreational Swimming Pool

The summer's swimming program was under the direction of Mr. Bill Bynum. The pool was filled to capacity during the entire summer session with a total of 6,888 participants with an average of 89 per day. In addition to the regular Recreational Swim Program, special sessions were held for Boys and Girls State, Coaches Clinic, University Music Festival and the Cheerleaders Clinic.

G. Swimming for Children

An enrollment of 91 children, as compared with 116 in 1963, participated in the six swimming classes taught under the supervision of Jean Brown and Elaine Lane. The smaller number of enrollees for the 1964 summer session is attributed to the pool limitations. The participants were all children of University employees and students.
H. **Art for Children**

The Department of Art Education again sponsored two classes for children taught under the supervision of John Bailey. One class was for 7 and 8 year olds and the other class included children 9, 10, and 11 years old, with a limit of twenty children in each class.

I. **Field School in Archaeology and Ethnology**

The summer Field School of the Department of Anthropology, under the direction of Dr. Florence Hawley Ellis, was conducted at the site of the first Capitol of New Mexico and the ruin of the adjoining Indian Village, a portion of the San Juan Pueblo near El Rito, New Mexico. Fifty-seven students were enrolled in the session.

J. **Summer Music Festival**

The fourteenth annual Summer Music Festival was held from June 8 through June 20 under the direction of Robert L. Farley. The Junior High School Division met June 8 through June 13. The Senior High School Division met June 15 through June 29.

K. **New Mexico Bookmen Exhibit**

The New Mexico Bookmen's Association held its annual exhibit of books and teaching materials on the campus June 25 and 26, 1964. Fifteen different companies were represented.

L. **Radiation Biology Institute**

The University of New Mexico, the National Science Foundation, and the Atomic Energy Commission conducted a Summer Science Institute June 15 to August 14, 1964. This Institute consisted of sixteen college teachers of Biology and four past participants of Radiation
Biology Institutes. A Summer Science Institute for twenty Secondary School Teachers was also held during the same period and was open to Junior and Senior High School Science Teachers. The Institutes were under the direction of Dr. Loren Potter.

M. Mathematics Institutes

The Department of Mathematics of The University of New Mexico in cooperation with the National Science Foundation offered for the sixth time, Summer Institutes for High School and Junior High School Teachers of Mathematics. The Junior High School Institute, directed by Dr. Merle Mitchell, was of the unitary-type and presupposed little previous mathematic training. This Institute was designed to offer a single summer of study to a particular group of teachers and was not intended to lead to an advanced degree. The High School Institute, under the direction of Dr. Frank Gentry, was of the sequential type and many of the participants from Summer Institutes returned to further their training. This course was intended for only those teachers who had an undergraduate degree in mathematics.

N. Research Participation Program for High School Teachers

A summer research program for secondary school teachers of Mathematics and Science was sponsored jointly by The University of New Mexico and the National Science Foundation. The high school teachers were assigned research projects in the Biology Department and the College of Engineering. This program was under the direction of Professor Jose Martinez.
O. **Spanish Institute**

An eight-week Summer NDEA Institute was held in Quito, Ecuador under the direction of Dr. S. R. Ulibarri. This Institute was conducted for 54 Secondary School Teachers of Spanish who had attended a first level Spanish Institute.

P. **Data Processing**

A 14-month program in administrative data processing began at the start of the regular summer session. This program is under the direction of the College of Business Administration, and it is further described under the Annual Report of the Data Processing Center.
Audio-Visual Center

Equipment, materials, and services were provided by the Audio-Visual Center to all the academic departments of the University during the reporting period. Supported by statistics to be given, indications are that the center is effectively serving the purposes for which it is organized and also an indication is that members of the University faculty are making more use of audio-visual aids in their teaching.

On-campus service, day and night, seven days a week, to the various departments, the non-credit program, conferences and institutes, programs directly associated with the University, such as the Child Guidance Center, Dental Program, and the Peace Corps, shows a total of 2925 hours of use for all audio-visual aids. This is an increase of 18.66% over last year's total. A breakdown of the number of hours each type of equipment was used is given below:

<table>
<thead>
<tr>
<th>Type of Equipment</th>
<th>1962-63</th>
<th>1963-64</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 mm Projectors</td>
<td>1152</td>
<td>1286</td>
</tr>
<tr>
<td>Overhead Projectors</td>
<td>304</td>
<td>317</td>
</tr>
<tr>
<td>2x2 Projectors</td>
<td>288</td>
<td>304</td>
</tr>
<tr>
<td>Tape Recorders</td>
<td>121</td>
<td>143</td>
</tr>
<tr>
<td>Opaque Projectors</td>
<td>219</td>
<td>191</td>
</tr>
<tr>
<td>Record Players</td>
<td>182</td>
<td>186</td>
</tr>
<tr>
<td>3½x4 Projectors</td>
<td>147</td>
<td>282</td>
</tr>
<tr>
<td>P.A. System</td>
<td>52</td>
<td>54</td>
</tr>
<tr>
<td>MP3 Polaroid Camera &amp; Copy Stand</td>
<td>0</td>
<td>162</td>
</tr>
</tbody>
</table>

As indicated by these figures, the most widely-used audio-visual material is the 16 mm sound motion picture film. Also, there was a substantial increase in the use of the 3½x4 slide projector, due to the purchase of a Mp-3 Polaroid camera and copy stand. Departments now are able to produce their own slides to fit their particular teaching programs.
A total of 1462 educational films was shown during the year, an increase of 6% over last year. Of these, 892, as contrasted with 821 in 1962-63, were rented or borrowed through this office from outside agencies.

The following two charts show the increases in Audio-Visual Center activities over the last five years:

**HOURS OF USE FOR ALL AUDIO-VISUAL AIDS**  
(Except Films)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours</td>
<td>1455 hrs</td>
<td>1473 hrs</td>
<td>1550 hrs</td>
<td>2465 hrs</td>
<td>2925 hrs</td>
</tr>
<tr>
<td>Increase</td>
<td>1.24%</td>
<td>5.23%</td>
<td>59.03%</td>
<td>18.66%</td>
<td></td>
</tr>
</tbody>
</table>

**NUMBER OF FILMS USED**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Films</td>
<td>806</td>
<td>923</td>
<td>1038</td>
<td>1379</td>
<td>1462</td>
</tr>
<tr>
<td>Increase</td>
<td>14.52%</td>
<td>12.45%</td>
<td>32.85%</td>
<td>6%</td>
<td></td>
</tr>
</tbody>
</table>

The graphs on the following page illustrate the above charts more dramatically, particularly in showing the sharp increase in the 1962-63 and 1963-64 school years.
HOURS OF USE OF ALL AUDIO-VISUAL AIDS 1960-64
(Except Films)

NUMBER OF FILMS USED 1960-1964
The following materials were acquired: seven 16 mm sound films and fourteen filmstrips. The following equipment was purchased:

One 16 mm projector, 
Two 35 mm strip-slide projectors, 
Two overhead projectors, 
Seven projection screens, and 
Numerous projection lamps, replacement parts, and graphic supplies.

During the past year, seven students were employed on a part-time basis, for ordering, scheduling and showing films, operation, and maintenance of equipment, and care of materials.
TAOS COUNTY PROPERTIES

1. Harwood Foundation

A. The Harwood Advisory Board:

Dr. Harold O. Ried .................. The University of New Mexico
Carl Paak ......................... The University of New Mexico
Mrs. Don Blair - President ........ Taos, New Mexico
Mrs. George Reynolds ............. Taos, New Mexico
R. Howard Brandenburg .......... Taos, New Mexico
Doel Reed ........................ Taos, New Mexico
Tom Humphreys .................... Taos, New Mexico
Paul Keith ........................ Taos, New Mexico

B. Personnel of the Harwood Foundation:

Mrs. Toni Tarleton ............... Director, Harwood Foundation
Mrs. Kathleen Dicus .............. Part-time Secretary
Mrs. Jean Stephenson ............. Part-time Librarian
Luciano Sisneros ................... Custodian

Dates of Regular Meetings of the Harwood Advisory Board:

Second Friday in January, April, July, and October. Special
meetings on call.

C. Physical Plant:

1. Outside Maintenance

a. Roofing:

Apartments 2, 3, & 4: Tarred roofs. Patched
around fire walls on these apartments.

b. Miscellaneous:

Fixed driveway with blacktop. Glazed and replaced
many windows broken due to vandalism. Built and
installed heavy wire screen for large window in
Apartment 9 to protect same against vandalism.

Cleaned up front and back yards. Pruned trees,
watered garden frequently. Filled up holes in
main driveway with sand. Patched patio walls.
Plastered shoulder of the walls in back garden.
Shoveled snow many times during winter. Fixed windows and plastered patio walls behind Apartment 7.
Cleaned up front and back yards at Degen House.
Laid flagstone in front of both doors at Degen House.

2. Inside Maintenance

Built shelves in hall closet in old building for supplies for children's Saturday art classes.
Apartment 2 - Removed gas line and heater.
Apartment 3 - Painted kitchen. Repainted sleeping porch and bedroom, ceiling, etc.
Apartment 6 - Repainted, cleaned and fixed floors of entire apartment for new tenants.
Apartment 9 - Built shelves for kitchen and bathroom.
Helped University workmen put up two steel beams in ceiling.
Repainted entire apartment.
Built two cement steps in the furnace room in old building.
Painted entrance to the furnace room in main building. Laid bricks in the furnace. Cleaned both furnaces thoroughly.
Scrubbed and oiled floors and waxed them three times during year in Community Room and in entire main building floors were waxed and polished three times. Replaced floor boards in floor in men's rest room in old building.
Moved furniture many times during year. Sanded large tables in library and main gallery; stained, waxed, and polished them. Built new door for ladies' rest room in main building.
Sanded, stained, and refinished both rest room doors.

Built two cement blocks for the new props in Community Room. Helped with installing steel beams etc. in Community Room and aided University workmen in major repairs. Picked up mail, took mail to Post Office daily, mailed books, etc.

Put up chairs and took them down after every activity in main gallery and Community Room.

II. Activities

A. Galleries:

Exhibits in galleries are open from 10:00 a.m. to 5:00 p.m.

from Monday through Saturday.

Most Important Events Scheduled in Gallery and Community Room

1963

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 21</td>
<td>Crossroads Lecture (under auspices of Helene Wurlitzer Foundation) String Quartet from Santa Fe Opera, followed by reception.</td>
</tr>
<tr>
<td>July 23</td>
<td>Regional Development Association of Northern New Mexico.</td>
</tr>
<tr>
<td>July 27</td>
<td>Taos School of Music - Chamber Music Concert.</td>
</tr>
<tr>
<td>Aug. 3</td>
<td>Taos School of Music - Chamber Music Concert.</td>
</tr>
<tr>
<td>Aug. 5</td>
<td>Film Showing &quot;...And Now Miguel&quot; - benefit Harwood Library Book Fund.</td>
</tr>
<tr>
<td>Aug. 10</td>
<td>Taos School of Music - Chamber Music Concert.</td>
</tr>
<tr>
<td>Aug. 14</td>
<td>Taos School of Music - Chamber Music Concert by the students.</td>
</tr>
<tr>
<td>Aug. 17</td>
<td>Taos School of Music - Chamber Music Concert.</td>
</tr>
<tr>
<td>Aug. 28</td>
<td>&quot;Frontier West&quot; executives presentation of plan with film showing etc.</td>
</tr>
<tr>
<td>Aug. 29</td>
<td>&quot;Frontier West&quot; executives presentation of plan with film showing etc.</td>
</tr>
<tr>
<td>Sept. 3</td>
<td>Taos Garden Club Program - Nat Dodge, speaker, followed by a reception - &quot;Wild Flower Conservation.&quot;</td>
</tr>
<tr>
<td>Sept. 14</td>
<td>Postal Examination.</td>
</tr>
<tr>
<td>Sept. 24, 25 &amp; 26</td>
<td>Eye Clinic under auspices of Welfare Department.</td>
</tr>
<tr>
<td>Sept. 28</td>
<td>Postal Examination.</td>
</tr>
<tr>
<td>Oct. 6</td>
<td>Albuquerque Jazz Quartet under auspices of Taos Art Association - Reception.</td>
</tr>
<tr>
<td>Date</td>
<td>Event</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Oct. 7</td>
<td>Taos County Agent's Meeting</td>
</tr>
<tr>
<td>Oct. 27</td>
<td>Film showing under auspices of Artists' Equity.</td>
</tr>
<tr>
<td>Nov. 12</td>
<td>Taos Garden Club Meeting with Program.</td>
</tr>
<tr>
<td>Nov. 16</td>
<td>Lecture and debate on &quot;Pop Art&quot; with Clinton Adams, followed by reception, under auspices of Taos Art Association.</td>
</tr>
<tr>
<td>Nov. 21 &amp; 22</td>
<td>Taos Little Theatre Performance.</td>
</tr>
<tr>
<td>Nov. 26 &amp; 27</td>
<td>New Mexico Highway Department Meetings.</td>
</tr>
<tr>
<td>Dec. 1 - 22</td>
<td>Christmas Craft Show opening with bake sale and refreshments.</td>
</tr>
<tr>
<td>Dec. 9</td>
<td>Eye Clinic under auspices of Welfare Department.</td>
</tr>
<tr>
<td>1964</td>
<td></td>
</tr>
<tr>
<td>Jan. 3</td>
<td>Home Demonstration Classes.</td>
</tr>
<tr>
<td>Jan. 13</td>
<td>Home Demonstration Classes.</td>
</tr>
<tr>
<td>Jan. 24</td>
<td>Movie under auspices of Rogers Foundation - &quot;Last Year at Marienbad.&quot;</td>
</tr>
<tr>
<td>Feb. 21</td>
<td>Movie under auspices of Rogers Foundation - &quot;Antigone.&quot;</td>
</tr>
<tr>
<td>Feb. 24</td>
<td>Home Demonstration Class.</td>
</tr>
<tr>
<td>March 2</td>
<td>Taos Rodeo Association.</td>
</tr>
<tr>
<td>March 6 - 31</td>
<td>Taos Little Theatre Rehearsals.</td>
</tr>
<tr>
<td>March 16</td>
<td>Eye Clinic under auspices of Welfare Department.</td>
</tr>
<tr>
<td>March 27</td>
<td>Film showing under auspices of Rogers Foundation.</td>
</tr>
<tr>
<td>April 1 - 21</td>
<td>Taos Little Theatre Rehearsals.</td>
</tr>
<tr>
<td>April 4</td>
<td>Taos County Agent - 4-H Club Meeting.</td>
</tr>
<tr>
<td>April 6</td>
<td>Wildlife Association Meeting.</td>
</tr>
<tr>
<td>April 7</td>
<td>Home Extension Club Meeting.</td>
</tr>
<tr>
<td>April 10</td>
<td>State Highway Department Meeting - All Day.</td>
</tr>
<tr>
<td>April 12</td>
<td>Library Tea for benefit of Book Fund.</td>
</tr>
<tr>
<td>April 20</td>
<td>Taos County Agent's Meeting.</td>
</tr>
<tr>
<td>April 22</td>
<td>Taos Little Theatre Performance.</td>
</tr>
<tr>
<td>April 24</td>
<td>Movie under auspices of Rogers Foundation - &quot;Shoot the Plamé Player.&quot;</td>
</tr>
<tr>
<td>May 1</td>
<td>Movies &quot;Edinburgh Festival&quot; and &quot;Shakespeare&quot; under auspices of Taos Travel Agency.</td>
</tr>
<tr>
<td>May 4</td>
<td>Taos Rodeo Association Meeting.</td>
</tr>
<tr>
<td>May 5 &amp; 8</td>
<td>Extension Club Meeting.</td>
</tr>
<tr>
<td>May 15</td>
<td>Girl Scouts Meeting with film showing and refreshments.</td>
</tr>
<tr>
<td>May 22</td>
<td>Film showing under auspices of Rogers Foundation - &quot;The Island.&quot;</td>
</tr>
<tr>
<td>May 28</td>
<td>Taos Little Theatre Annual Meeting with Workshop.</td>
</tr>
<tr>
<td>June 4</td>
<td>Federation of Republican Women's Meeting.</td>
</tr>
<tr>
<td>June 5</td>
<td>Extension Club - All Day.</td>
</tr>
<tr>
<td>June 8</td>
<td>Taos Rodeo Association.</td>
</tr>
<tr>
<td>June 14</td>
<td>Guitar Concert</td>
</tr>
<tr>
<td>June 15 - 20</td>
<td>Dr. Alexander's Aesthetics Institute.</td>
</tr>
</tbody>
</table>
From July to March, the Main Gallery and the Community Room were in constant use by the Peace Corps for meetings and lectures from 8:00 a.m. to 10:00 p.m.

Regularly Scheduled Events in Gallery and Community Room

- Every Sunday at 9:00 a.m. - Christian Science Group
- Every Tuesday at 7:30 p.m. - Inner Sanctum Sketch Class
- Every Thursday at 7:30 p.m. - Alcoholics Anonymous
- Fourth Friday of every month - Taos County Historical Society
- Every Saturday at 10:00 a.m. - Children's Story Hour
- First Monday at 7:30 p.m. - American Federation of Teachers
- Twice Monthly at 7:30 p.m. - Veterans of Foreign Wars

III. Library

A. Hours:

10:00 a.m. to 5:00 p.m., Monday through Friday.
10:00 a.m. to 4:30 p.m., Saturday.
Closed Sunday.

B. Employees:

Two part-time in Main Library: Toni Tarleton and Jean Stephenson, with assistance from the Secretary, Kathleen Dicus.

C. Circulation:

1963-64 ........................................... 28,481

D. Books Given to Library:

1963-64 ........................................... 407

E. Other Gifts to Library:

Cash donations and money raising projects including fines and rentals ................................ $ 1,248.78

Received from Village of Taos (children's books to value of) ....................................... $ 400.00

Received from State Library Extension - Hatching Funds ............................................... $ 200.00
F. Additions to Harwood Permanent Collection:

A "Portrait of Doughbelly" by Mrs. Don Blair (Bettina Steinke) valued at $350.00.

Two etchings: "Christmas Eve, Taos Pueblo" valued at $26.00, and "New Mexican Church" by Gene Kloss valued at $50.00.

Portrait of "Father Paul Hatch" by Rex Dolmith, valued at $1,000.00.

G. Books Accessioned:

1963-64: 728 books

Amount spent on books and bindings: $1,447.96

Amount spent on periodicals: $129.50

H. Subscription to Weekly and Monthly Periodicals: 55

I. National Library Week:

Active participation. Posters placed all over town. Bookmarks in all books checked out of Library during two week period. Publicity in local newspaper. Two talks on local radio station by the director.

J. Number of Registered Borrowers: 3,082

Library borrowers have increased substantially, and more books were checked out during 1963-64 than in the previous year. One hundred thirty-six books were borrowed on Inter-Library Loans. There were many temporary cards issued to visitors.

Standing Library Committee was active and met at intervals. Mrs. Richard Torbert, Chairman.

K. Rentals:

Apartments: $3,337.50

Degen Studios: $510.00

TOTAL: $3,847.50

L. Utilities:

Electricity: $784.70

(Water and Sewer: $301.12, Telephone: $153.96, Gas (Propane): $1,733.60, Garbage Disposal: $60.00)
IV. Degen Property

During the year, the Degen Property was taken over by the Peace Corps and since has been used for their offices and group meetings.

V. D. H. Lawrence Ranch

The Ranch continues to be used by faculty and friends for camping and relaxation. At the present time, there are four different types of lodging available: 8 single cottages, 1 double cottage, 2 Dallas huts, and 4 camp sites. A small rental fee has been put into effect for these facilities. The dormitory facilities are near completion although much more work should be done.

The D. H. Lawrence Writing Fellowship was awarded to Mr. John Verrall in the summer of 1964.
THE DENTAL ASSISTING PROGRAM

At the July 26, 1963 meeting of the Council on Dental Education of the American Dental Association the University's Dental Assisting Program was granted full approval. This approval resulted from the recommendation of an evaluating committee which made a site visit to the campus in February, 1963. A significant comment in the Council's formal report to the University is, "it is believed by the committee that higher than average achievement standards are maintained."

In the academic year, 1963-64, the Dental Assisting Program completed its fourth year as a pilot study of the Division of Dental Public Health and Resources of the United States Public Health Service. In the future, the Program will serve as a source of information to the Public Health Service providing statistical information and evaluations of on-the-job performances of those dental assistants who have been trained at The University of New Mexico.

The 1964 class was made up of residents from Albuquerque, Roswell and Phoenix, Arizona. For the first time, a student was admitted on the basis of the results of the General Educational Development tests. Her performance throughout the academic year was above average.

The number of applicants eligible for the Dental Assisting Program has been decreasing the past several years. The chart below gives the figures for the past four years:
<table>
<thead>
<tr>
<th></th>
<th>No. of applicants</th>
<th>Total accepted</th>
<th>No. graduated</th>
<th>No. presently employed as dental assistants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1960-61</td>
<td>34</td>
<td>10</td>
<td>8</td>
<td>3</td>
</tr>
<tr>
<td>1961-62</td>
<td>32</td>
<td>17</td>
<td>12</td>
<td>7</td>
</tr>
<tr>
<td>1962-63</td>
<td>26</td>
<td>9</td>
<td>7</td>
<td>4</td>
</tr>
<tr>
<td>1963-64</td>
<td>25</td>
<td>6</td>
<td>6</td>
<td>5</td>
</tr>
</tbody>
</table>

In discussion with school counsellors it became evident that many are not too clear regarding the auxiliary areas in the field of dentistry. In an effort to acquaint counsellors with dental assisting and the training, an open house was held at the University in the Dental Programs building in February 1964. Invited were all junior high school and high school counsellors in the Albuquerque area.

A new brochure describing the Dental Assisting Program has been printed and distributed to all counsellors at schools in New Mexico. As a result, more applications have been received this spring than in any previous spring. It is hoped the fall, 1964, class will be filled to capacity.

Only one change was made in the faculty during 1963-64. Mrs. Florence Lucas resigned to continue work on an advanced degree. Mrs. Doris Weber replaced her as the instructor in Dental Office Management. A staff change was necessitated by the resignation of Miss Donna Dionne in August. Miss Katherine Saunders replaced her as secretary of the Dental Programs on September 1, 1963.
The Great Decisions Program is sponsored by the Foreign Policy Association which is a nationwide adult educational agency serving the American people through their own organizations and groups in their own communities. It is nonpartisan. It takes no stand on political issues but works for the traditional American goals. Adult groups are formed in the community and usually meet in the various homes. Groups consist of ten to fifteen people who spend one evening a week for eight weeks in group discussion on vital questions of national and inter-national policy.

The Division of Extension acts as a clearing house for reading materials on the topics which are selected for discussion each year. It must be said that this Division works largely with communities outside of Albuquerque because there is a local Great Decisions Committee.

The topics which were on the discussion schedule follow:

1. World Communism Today - How Great the Danger? February 9
2. France and the West - Will Atlantic Unity Survive? February 16
4. Disarmament - Alternative to the Balance of Terror? March 1
5. Castro's Cuba - Challenge to the Americas? March 8
6. Indonesia - Guided or Misguided Democracy? March 15

A total of 316 Fact Sheet Kits were requested by various people in the State. Communities represented in the discussion program were
Albuquerque, Silver City, Los Alamos, Springer, Eunice, Las Cruces, Farmington, Roswell, Carlsbad, Santa Fe, Deming, Alamogordo, Grants, Aztec, and Espanola.

Advance notice on the discussion topics for 1965 have already been sent to interested people in the State.
UNIVERSITY EXTENSION CIVIL DEFENSE PROGRAM

This program was inaugurated nationwide in the late Spring and early Summer of 1963, by the Office of Civil Defense, Department of Defense, Washington, D. C. Under authority contained in Section 201 (E) of Public Law 920 (81st Congress), "The National Civil Defense Act", the Office of Civil Defense invited Universities and Land Grant Colleges in each of the states to submit proposals for conducting Civil Defense training courses and conferences through their Extension services.

The Office of Civil Defense solicited a proposal from The University of New Mexico on February 11, 1963. On March 8, 1963, the Director of the Extension Division submitted a proposal to conduct twelve (12) conferences for State, County and Municipal officials, and to conduct four (4) Shelter Management Instructor courses and two (2) Radiological Monitor Instructor courses. It was originally proposed that six people would staff the program and the contract would be in the amount of $62,176. Subsequent negotiations reduced this to a three member staff, Director, Assistant Director, and Secretary, and a contract in the amount of $40,365. Contract Number OCD-05-63-87 was signed by the President of the University on May 14, 1963, and approved by the OCD Contracting Officer on May 20, 1963. Under terms of the contract all work was to be completed by June 30, 1964.

Personnel and Administration

Mr. Verle T. Simpkins and Mr. Donald N. Lange were appointed as Director and Assistant Director of the program on June 24, 1963.
After a brief period of orientation and coordination with New Mexico State Civil Defense officials, they departed for the Office of Civil Defense Staff College in Battle Creek, Michigan for four weeks training as stipulated in the contract. The courses and dates they attended are as follows:

**Mr. Simpkins**

Civil Defense Management .................July 7 - 12  
Elements of a Shelter System Capability ....July 14 - 19  
Shelter Management Instructor ...............July 21 - 26  
University Extension Workshop ............ July 28 - Aug 2

**Mr. Lange:**

Civil Defense Management .................July 7 - 12  
Radiological Monitoring for Instructors.... July 14 - 19  
Radiological Defense Officer ...............July 21 - 26  
University Extension Workshop ............ July 28 - Aug 2

Miss Patricia G. Pressey was hired as secretary on August 12, 1963, and terminated on September 25, 1963. Mrs. Willmena Kessel was appointed secretary on September 27, 1963.

Mr. John D. Giesler was appointed Assistant Director of the program on June 25, 1964, and was enrolled in prescribed OCD Staff College courses at Battle Creek, Michigan from June 28 to July 24, 1964.

Office space for the program staff was allocated from existing space occupied by the Extension Division in Room 210C, Administration Building. Classroom space was provided in Room 209, on a scheduled basis, and arrangements were made to utilize Carlisle Gymnasium and the Fallout Shelter in the basement of the Geology Building for laboratory areas also on a scheduled basis. Limited storage space was provided adjacent to the staff office, consequently materials and equipment are stored in six different rooms in four buildings; Administration, Geology, Mitchell Hall, and the Research Center.
Aside from normal office equipment, it was necessary to purchase the following additional equipment in support of the program:

Bell and Howell 16 mm Auto-Threader Motion Picture Projector
Portable Screen
Overhead Projector
Slide-Film Projector

Contract funds are administered by the University Business Office in accordance with established procedures for all cost reimbursible Government contracts.

Program Objectives

The National objective of the University Extension Civil Defense Program is to materially increase and help maintain the United States' total civil defense effort by employing the resources of the nation's state universities and land grant colleges, operating through their Extension Services, under contract to the Office of Civil Defense, by providing instruction for specific audiences. More specifically in New Mexico, the program is designed to extend certain national and state civil defense training to communities with the objective of increasing the overall civil defense operational readiness of the state.

The Shelter Management Instructor course provides the technical background and training required by Shelter Manager Instructors, who will return to their communities and train those who are to serve as shelter managers and their staffs. Similarly, the Radiological Monitoring Instructors course provides communities with qualified instructors to train the radiological monitors needed in fallout shelters and radiation monitoring stations throughout the state.

Conferences are conducted at local level for public officials and other community leaders. Local government recognition of the need for
emergency planning and official leadership in the civil defense program is necessary before the public will accept the program. These conferences are motivational in nature; designed specifically to obtain official active support of the local civil defense effort in each community. They are highly informative, focusing National and State Civil Defense policies and plans into definitive courses of action that can be taken at community level.

Program Operations

The OCD National Office establishes the policies and administrative procedures and authorities for the program. The Training and Education Office, Region V, OCD, Denton, Texas, provides technical and administrative guidance in the day-to-day operations, such as consultation by OCD technical specialists; providing the University with current OCD policies, plans, programs and operational procedures; review and approval of conference content and design; and general contract administration. All courses of instruction are conducted in accordance with the instructional material prepared by the Office of Civil Defense Staff College. Student materials, instructor guides, and course supplies are furnished by the government.

The State Civil Defense Office determines the training requirement to be placed upon the University in terms of number of conferences and courses to be conducted during the contract year, and works closely with the University in determining their location and dates. Recruiting of students and conferees is a primary responsibility of the University but it evolves as a joint effort of the University and Federal, State and local Civil Defense officials. The direct management and conduct of all courses and conferences is the sole
responsibility of The University.

Follow-up on effective utilization of course graduates as instructors in the field and exploitation of conference attendees is the responsibility of Civil Defense officials.

Performance, FY 1964

Shelter Management Instructor training courses were held as follows:

<table>
<thead>
<tr>
<th>Dates</th>
<th>Place</th>
<th>No. Enrolled</th>
<th>No. Certified as Instructors</th>
</tr>
</thead>
<tbody>
<tr>
<td>February 17 - 21</td>
<td>Albuquerque (UNM Campus)</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>March 16 - 18</td>
<td>Albuquerque (UNM Campus)</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>April 13 - 15</td>
<td>Las Cruces (NMSU Campus)</td>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td>May 4 - 9 (Night)</td>
<td>Albuquerque (UNM Campus)</td>
<td>12</td>
<td>10</td>
</tr>
</tbody>
</table>

The length of these courses varied from thirty to forty-three hours including a controlled exercise in shelter living of from sixteen to twenty-four hours, depending upon the size of the class and the exercise facility. Government approved, marked and stocked fallout shelters were utilized for the exercise in all classes. In addition to students, forty to seventy-five volunteers participated in each shelter exercise. This resulted in over one hundred fifty other persons actually experiencing shelter living conditions. They all subsisted on the supplies normally stocked in shelters by the Federal Government, with the exception that blankets were also furnished.

In addition to the two CD Program staff members, two members of the faculty of UNM assisted in the Albuquerque courses and a member of the NMSU faculty assisted in the Las Cruces course.
Two Radiological Monitor Instructor courses were held as follows:

<table>
<thead>
<tr>
<th>No. Certified</th>
<th>No. Enrolled</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>February 24 - 28</td>
<td>Albuquerque (UNM Campus)</td>
</tr>
<tr>
<td>March 16 - 27 (Night)</td>
<td>Albuquerque (UNM Campus)</td>
</tr>
</tbody>
</table>

Both of these courses were of thirty hours duration including laboratory exercises. A Civil Defense source set of 30 millicuries of Cobalt 60 was used as the source of gamma and beta radiation in the exercises for radiological instrument familiarization and calibration, and demonstration of source handling and monitoring techniques.

Due to the technical nature of this course, seven additional people from various Federal and State agencies and the University were used to augment the Civil Defense Program staff in instructing these courses.

Twelve conferences were conducted for public officials in eleven different locations throughout the state as follows:

<table>
<thead>
<tr>
<th>County</th>
<th>Municipal</th>
<th>Other*</th>
<th>Observers</th>
<th>**Total Attend-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oct 7/63 Albuquerque</td>
<td>23</td>
<td>12</td>
<td>10</td>
<td>3</td>
</tr>
<tr>
<td>Oct 30/63 Albuquerque</td>
<td>18</td>
<td>6</td>
<td>13</td>
<td>0</td>
</tr>
<tr>
<td>Nov 6/63 Santa Fe</td>
<td>8</td>
<td>7</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>Nov 14/63 Raton</td>
<td>15</td>
<td>6</td>
<td>3</td>
<td>27</td>
</tr>
<tr>
<td>Nov 20/63 Las Vegas</td>
<td>10</td>
<td>5</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Dec 4/63 Clovis</td>
<td>16</td>
<td>7</td>
<td>1</td>
<td>29</td>
</tr>
<tr>
<td>Jan 4/64 Alamogordo</td>
<td>29</td>
<td>11</td>
<td>20</td>
<td>26</td>
</tr>
<tr>
<td>Jan 7/64 Hobbs</td>
<td>18</td>
<td>13</td>
<td>11</td>
<td>5</td>
</tr>
<tr>
<td>Jan 9/64 Roswell</td>
<td>16</td>
<td>5</td>
<td>13</td>
<td>10</td>
</tr>
<tr>
<td>Jan 21/64 Truth or Con.</td>
<td>8</td>
<td>5</td>
<td>8</td>
<td>1</td>
</tr>
<tr>
<td>Mar 3/64 Silver City</td>
<td>18</td>
<td>5</td>
<td>8</td>
<td>7</td>
</tr>
<tr>
<td>Jun 24/64 Las Cruces</td>
<td>14</td>
<td>4</td>
<td>24</td>
<td>0</td>
</tr>
</tbody>
</table>

*Includes State Legislators, State and Federal Agencies, and Educators.

**Contains representation in some capacity from every county in the state.

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These conferences were scheduled through arrangements made with County and Municipal officials in each area. A preliminary planning meeting was held in the selected conference city with the mayor, county commission chairman, civil defense director and other selected officials of their choice. The University obtained the sponsorship of the city and the county, who, in turn, set the time and place and issued the invitations. The University prepared the program, arranged for program participants, set up the local facilities and conducted the conferences.

The following were program participants in conferences this year as lecturers, key-note speakers, or panelists:

The Honorable Jack M. Campbell, Governor of New Mexico
The Honorable Fabian Chavez, Jr., New Mexico Senate
The Honorable Bruce King, New Mexico House of Representatives
President Roger B. Corbett, New Mexico State University
Colonel Carey L. O'Bryan, Deputy Commander, AFSWC, Kirtland AFB
The Reverend Albert W. Tarbell, Canon, St. John's Episcopal Church
Mr. W. W. Atkinson, Attorney; Past President -
New Mexico Municipal League
Mr. William C. Parker, Director, Region Five, OCD, Denton, Texas
Mr. Rolland Haun, Field Representative, Region Five, OCD
Mr. Harry C. Naugle, Acting Director, New Mexico OCD
Mr. Robert Dobyns, New Mexico OCD
Mr. Carl J. Salas, New Mexico OCD
Dr. Joe R. Foote, Director, Holloman Graduate Center UNM
Dr. Jack C. Redman, MD, Health Services Advisory Committee,
US CD Council
Mr. M. F. Fifield, Director, UNM Physical Plant Department
The Reverend Harold E. Johnson, Church of Christ, Santa Rita, N.M.
Mr. Carl J. Henderson, New Mexico State Health Department
Mr. Verle T. Simpkins, Director, Extension Civil Defense Program, UNM
Mr. Donald H. Lange, Assistant Director, Extension Civil Defense Program, UNM

Evaluation

Through the Shelter Management and Radiological Monitor Instructor courses, eighty-nine (89) certified instructors have been added to the state's Civil Defense training capabilities in sixteen (16) communities located in twelve (12) counties.
Conferences have provided timely information and recommended solutions to civil defense problems to four hundred sixty-four (464) public officials and others in eighty-five (85) communities representative of all thirty-two (32) counties in the state. Sponsorship of these conferences by The University with its stature and status as an educational institution has provided the neutral ground upon which local public officials, state civil defense office personnel and others could meet for frank discussion of National, State and local Civil Defense policies, goals and responsibilities. The atmosphere of better understanding created by these discussions can ultimately result in official and public acceptance of National and State Civil Defense objectives, and active support through organized emergency planning and training at community level.

By mutual agreement between National and State OCD officials and the University, the program will be continued in fiscal year 1965. The New Mexico State Civil Defense Office has requested The University to conduct eight (8) Civil Defense conferences of various types, six (6) Radiological Monitoring Instructor courses and four (4) Shelter Management Instructor courses next year. Contract Number OCD-PS-64-162, in the amount of $54,200, effective July 1, 1964, was signed by the University on June 10, 1964, and by the OCD Contracting Officer on June 19, 1964.
SIGNIFICANT PLANS AND RECOMMENDATIONS
FOR 1964 - 1965

Again this year, we are sub-dividing this section into areas of responsibility since certain specific recommendations will apply only to particular sections. As before, we do this so that we might devote some attention to general plans and recommendations involving the entire Division of Extension, Summer Session, and Community Services.

In all of our efforts during the past eleven years, we have attempted to make the resources of the University available to all of the citizens in this community as well as the State of New Mexico. We are sincere in our feeling that we have made much progress in accomplishing this objective.

I. General Plans and Recommendations for the Entire Division:
A. We need additional office help to adequately carry on the work of the Division.
B. It is again recommended that our assistant directors be given academic rank. This is a common practice at other universities, and it would immeasurably improve the morale of the staff.
C. It is again recommended that efforts be continued to get the funds necessary to build a Continuing Education Building. This is a common trend over the country in many universities, and again it would give added impetus to varied adult education programs. Increasingly, we are going to be limited in campus facilities and services. This may result in curtailment of some of our community adult programs.

II. Instructional Centers and Extension Classes:
A. The possibility of awarding resident credit for extension classes
taught by UNM campus faculty should be investigated.

B. Every effort should be made to stimulate the Los Alamos and Holloman Graduate programs.

III. Correspondence Division:

A. As stated in our four past reports, we believe that the Correspondence Division should be enlarged and improved to keep pace with NUEA standards in the face of increased interest and advancement in this area of study throughout the world. We especially need courses in Guidance, Library Science and Sociology, to mention a few for which we have the most requests. Our enrollment figures continued to increase during the past year.

B. During the year, fees paid to instructors for grading lessons were increased to arouse more interest in correspondence participation. Also during the year, we increased the cost of correspondence courses from $10 a credit hour to $12.

IV. Audio-Visual Center:

A. From the first section of this annual report concerning our Audio-Visual area, we recognize a fact that tremendous progress has been made in establishing a campus Audio-Visual Center even though we have been handicapped in buying materials because of budget limitations. If we could get a large budget increase, it would then be possible to satisfy the various requests from colleges and departments for audio-visual materials. We do feel that we have made definite strides in getting the various departments to recognize this Division as the Audio-Visual Center for the campus.

B. Even though we are very proud of the training and reliability of our student projectionists, the increased use of audio-visual aids by the
growing faculty at the University placed a near impossible load on
the more-than-average coverage during the heavy class hours of the
school day. Some requests were not satisfied, simply because funds
were not available for taking care of the additional pressures
caused by this increased demand. As a temporary measure to "handle"
the increased load, a part-time graduate student was employed for the
1963-64 school year. This certainly relieved the immediate problem
of growing demand, by centralizing control of film ordering, sched-
uling and showing, plus on-the-spot supervision of undergraduate student
projectionists. But, of course, this is not the panacea for our
problems. It is strongly recommended that, in view of the increasing
use and demands for audio-visual service, a full-time director of
audio-visual services be employed. This director might also be
considered to instruct courses in Audio-Visual Education through
the College of Education.

C. The Audio-Visual Center is located in Room 207 of the Administration
Building. This a small, unventilated room which serves as:
1. An office for audio-visual clerical work, i.e., correspondence
to film rental agencies, ordering and scheduling films, receiving
and shipping films, maintaining current catalog files and faculty
request files, et cetera;
2. Storage space for some 600 16-mm films, 150 filmstrips, tapes,
slides, records, and graphic supplies, as well as replacement
parts, tubes, lamps, and tools for maintenance of equipment;
3. Storage space for all equipment not being used by departments;
4. Work room for graphic aids, i.e., copy stand and camera for
production of 3½ x 4 and 2 x 2 slides, and the production of

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overhead projectuals via the diazo process;

5. Work room for the inspection, cleaning, and repairing of films;
as well as:

6. A storage room for supplies needed for other Extension Division
activities.

It is not difficult to appreciate the serious need for additional
space to carry on adequately the activities of the Audio-Visual Center.

V. Conferences, Institutes, and Short Courses:

A. As has been mentioned before, there is still a shortage of facilities
for continuing education activities. As new buildings are completed,
larger enrollments of residence students utilize the additional
meeting room space provided. The Division of Extension is pressed
with an ever increasing number of requests for facilities to hold
conferences of two to three days duration and for Seminars and Short
Courses that would meet different periods each day for four to six
weeks. University personnel help instruct in many of the continuing
education programs and it is much more convenient for them to have
such programs convene in campus facilities.
The Division will continue to utilize University facilities when not
in use by residence classes. However, continuing education requests
make it necessary to secure space for some programs elsewhere. It is
felt that the University should be one of the leading educational
institutions endeavoring to help in the continuing education of adults
whether it be cultural or vocational in nature. In order to do justice
to the adult demands for this type of education, a separate facility
should be secured that could harbor all such offerings. It should,
also, be one where continuing education activities would have first
priority and could be utilized at a later period, when the programs expand, for only continuing education activities. A facility of this nature could be financed by income secured each semester from already established continuing education activities. In order to accomplish this, it is suggested that when new men's dormitories are built on the campus, consideration should be given to allowing the Division of Extension, Summer Session, and Community Services to secure Mesa Vista Dormitory for a Continuing Education Center. Alterations could be made for classrooms to house the non-credit courses given at night. Also, there would be enough space for more than one conference at a time as well as separate meeting rooms for individual smaller meetings. A few sleeping rooms could be kept for housing conferees and ample parking space would be available, relieving the parking conditions elsewhere. Mesa Vista is located close to the New Mexico Union. Participants attending adult education programs in Mesa Vista could obtain meals at the Union.

B. There is increased pressure from the Manpower Development and Training Act on institutions of higher learning to re-train adults to work in newly developed technical fields. The Division has been working with people connected with the training and will continue to do so. There have been few classes at The University of New Mexico for adults who wish re-training, however, because space has not been available. Many classes could be developed through grants in aid under the Manpower Development and Training Act if facilities to hold the re-training classes were available.

C. The policy of charging off-campus groups and organizations for use of facilities for meeting places should continue. This has tended to
cut down outside use and made scheduling of regular University courses much more flexible.

D. The Division of Extension, Summer Session, and Community Services suggests, as a matter of policy, that all conferences, institutes, or short courses which are contemplated by any college, department, or individual connected with the University, be entered on a calendar kept by the Division before any commitments are made. Instances in the past have caused some embarrassment when more than one activity was scheduled at the same time. This Division should act as a clearing house when any such activity is proposed. The experience which has been gained in management of conferences and developing institutes, seminars, and short courses by the Division may expedite matters and tend to develop better public, staff, and faculty relations. In this regard, it is recommended that a room scheduling policy be established for all facilities on the campus used for continuing education activities and other events of a non-academic nature. It is also recommended that a university schedule of campus events be established and kept in the Division of Extension, Summer Session, and Community Services. At the present time, the Division receives requests, from off-campus organizations, for meeting room space. A better control system for use of campus facilities should be established and managed by the Division of Extension because of use the Division itself makes on these facilities.

E. A brief summary of conferences, institutes, and short courses already planned for the coming fiscal year follows:
<table>
<thead>
<tr>
<th>Activity</th>
<th>Date</th>
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<tbody>
<tr>
<td>Cheerleaders' Clinic</td>
<td>July</td>
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<tr>
<td>Coaching Clinic</td>
<td>August</td>
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<tr>
<td>Home Economics Conference</td>
<td>August</td>
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<tr>
<td>Officials School</td>
<td>August</td>
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<tr>
<td>Naval Reserve Research Seminar</td>
<td>August</td>
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<tr>
<td>Electronics Industries Association Clinic</td>
<td>August</td>
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<tr>
<td>International Atmospheric Ozone Symposium</td>
<td>August</td>
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<tr>
<td>First Aid Course</td>
<td>August</td>
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<tr>
<td>Yearbook Seminar (High School)</td>
<td>September</td>
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<tr>
<td>New Mexico Podiatry Meeting</td>
<td>September</td>
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<tr>
<td>Medical Self-Training Course</td>
<td>September</td>
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<tr>
<td>Insurance Adjusters Course, Part I</td>
<td>October</td>
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<tr>
<td>Insurance Adjusters Course, Part II</td>
<td>October</td>
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<tr>
<td>Life Underwriters Training Course, Part I</td>
<td>October</td>
</tr>
<tr>
<td>Life Underwriters Training Course, Part II</td>
<td>October</td>
</tr>
<tr>
<td>Chartered Life Underwriters Course, Part I</td>
<td>October</td>
</tr>
<tr>
<td>Chartered Life Underwriters Course, Part II</td>
<td>October</td>
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<tr>
<td>Motor Fleet Supervisors Course</td>
<td>October</td>
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<tr>
<td>American Institute of Banking</td>
<td>October</td>
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<td>American Institute of Banking</td>
<td>October</td>
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<tr>
<td>American Institute of Banking</td>
<td>October</td>
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<tr>
<td>National Secretaries Course</td>
<td>October</td>
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<tr>
<td>Medical Office Assistants Course</td>
<td>October</td>
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<tr>
<td>Dental Office Assistants Course</td>
<td>October</td>
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<tr>
<td>Practical Nurses Course</td>
<td>October</td>
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<tr>
<td>New Mexico Education Association Meeting</td>
<td>October</td>
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<tr>
<td>Real Estate Appraisal Seminar</td>
<td>November</td>
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<tr>
<td>Laboratory Management Course</td>
<td>November</td>
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<tr>
<td>Engineer-In-Training</td>
<td>November</td>
</tr>
<tr>
<td>Nursing Refresher Course</td>
<td>November</td>
</tr>
<tr>
<td>All-State Music Clinic</td>
<td>January</td>
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<tr>
<td>Dental Seminar</td>
<td>January</td>
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<tr>
<td>Indian Youth Conference</td>
<td>April</td>
</tr>
<tr>
<td>Journalism Conference</td>
<td>June</td>
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</tbody>
</table>

VI. Community Evening College (Non-Credit Section):

We are continuing to evaluate our offerings with the view toward developing new courses in an attempt to increase our statistics as far as students are concerned.

Many non-credit offerings are curtailed due to lack of adequate space; painting and jewelry-making classes are being held in poorly equipped makeshift rooms because the facilities allocated for these classes are being used for credit offerings exclusively. We are not
in agreement with the department controlling the use of these facilities, and feel an arrangement could be made to facilitate the Community Evening College as well as regular credit offerings.

VII. Community Evening College (Credit Section):

It is possible for us to increase the number of night students at $17 an hour by offering a more complete series of courses during the evening hours. This would not only increase our financial income but would serve the community better.

VIII. Civil Defense Program:

A considerable increase in travel and telephone communication in connection with community coordination and recruiting is anticipated. Experience over the past year indicates that correspondence, brochures and written invitations do not always fill the classroom or the conference room. We will continue to use these methods, but personal contact follow-up will also be accomplished.

Training courses will be extended further throughout the state. Of the six courses conducted last year, all but one were held on campus. Next year, three will be held on campus, and one each in Artesia, Carlsbad, Roswell, Clovis, Raton, and Las Cruces.

Conferences will be broadened in scope and content to include workshops and seminars on subjects for special groups, i.e.; public officials, Civil Defense Directors, State Agencies, business, professional and service groups.

Feasibility studies will be conducted on the introduction of additional civil defense training courses into the program. The National OCD Office has indicated that this is a possibility in Fiscal Year 1966.
Tentative plans have been made to offer the Radiological Monitoring for Instructors Course as a pre-session summer school workshop in 1965. The workshop is to be conducted primarily for science teachers as a part of an updating process in the latest developments in nuclear science, radioactive isotopes, and the effects of radiation. It is hoped that teachers successfully completing the workshop may apply these credits toward recertification.

IX. Summer Session:

A. We will continue to work on enrollment increases even though we showed an increase in 1964.

B. We had a budget increase in 1964 and this allowed us to offer a broader program. We should continue this effort.

C. It is recommended that in 1965, the salary schedule be increased to two-ninths of the annual salary.

D. More and better concentrated courses will be added in 1965.

E. Every effort will be made in 1965 to recruit some superior visiting faculty members as attractions of the summer session.

F. We are attempting in every way to offer attractive special events that will interest students.

G. If possible, some scholarships should be provided for summer session students.

H. Last summer we attracted a large percentage increase of new freshmen but we need to attract more new freshmen to the summer session; this would then relieve some of the freshmen pressure in the fall.

I. All departments should inform and coordinate institute proposals with the Summer Session Director.
J. We need housing for married couples very badly.

K. We need an air-conditioned dormitory for men.

L. The Summer School Director is studying all plans and proposals of other institutions for expanding the length of the summer session.

M. A survey during the coming year will be conducted as to what we should do with the summer session at The University of New Mexico. This will involve the question as to whether we should extend the length of the summer session or not.
The Report of the Holloman Graduate Center
July 1, 1963 - June 30, 1964
J. R. Foote, Director

A. General Information

Two new course areas were begun in this year: biology, with emphasis on virology, and chemistry. These areas, particularly the former, are of crucial importance to the Aeromedical Research Laboratory at Holloman. Two courses in virology were given this year and one course in organic chemistry; both courses will be continued next year.

A total of nineteen courses were offered. In the Fall term 100 individuals took 106 man-courses in eight courses; in the Spring 84 persons took 94 man-courses in eleven courses. These data are about 10% less than last year.

The Graduate Center was instrumental in sending two doctoral candidates in mechanical engineering to the UNM campus for one year of full-time study, both well qualified through courses given at Holloman. The Graduate Center has encouraged and recommended in the past several years many students who have been sent to advanced training at various institutions. This, as a measure of success, should be as well regarded as degrees granted at Holloman.

B. Plans

After several years of spadework it appears that Holloman will support a special series of courses leading to a master's degree in engineering management. At a preliminary meeting in June, 1964, plans for starting the program in September, 1964,
and for further development of the idea were laid. This program has been needed at Holloman for many years. The University already had the core program under intensive development through the College of Business Administration and the Department of Economics. Upon approval of this plan by University officials, this master's degree will be the sixth such authorized for residence study at Holloman.

A much more tentative plan with no immediate impact on the Graduate Center was presented early in June, 1964, by Holloman officials. This briefing of Governor Campbell, Presidents Popejoy and Corbett, members of the governor's space committee, and members of the Board of Educational Finance concerned the desirability of a New Mexico Institute for Space Sciences. If such an Institute were established at or near Holloman, there is a strong probability that it would absorb the Holloman Graduate Center.

C. New Staff

New part-time professors in the Fall were: Dr. (Lt.) R. H. Levenson who taught virology; Dr. D. N. Farrer who taught psychology of personality and physiological psychology; and Dr. J. W. P. Mayer-Kalkschmidt of the UNM campus who taught complex variable. New in the Spring: Dr. R. A. Scott who conducted the laboratory in organic chemistry; and Dr. R. D. Kelly of the UNM campus who taught waveforming circuits; and Dr. J. L. Riebsomer of the campus who taught organic chemistry.
D. Professional Activities

The Director attended a six-week Symposium on Space Mathematics at Cornell University 1 July-10 August 1963. The lectures, notes, and contacts provide a new facet of teaching and research capability to the Graduate Center.

The Director, partly as Chairman of the Holloman-Alamogordo Section, American Institute of Aeronautics and Astronautics (AIAA), attended the AIAA Annual Meeting, Space Sciences, in New York City, 20-23 January 1964. He also attended the Symposium on Asymptotic Theory at the Mathematics Research Center, University of Wisconsin, 4-6 May 1964.

The Director attended the annual meeting of the Rocky Mountain Science Council as a representative of the Air Force Missile Development Center at Martin Company, Denver, 24-25 April 1964. There he terminated his duty-year as Editor, RMSM Newsletter.

The Director continued for the fourth consecutive year his participation in the Visiting Scientist Program of the New Mexico Academy of Sciences.

As consultant to the Office of Research Analyses the Director completed three research papers, two appearing in a classified document on defense of cities against ICBM attack. One of these concerns passive defense methods, tactics, and operations, and a review of future plans for civil defense. The other concerns a method of evaluating performance of interceptor missiles defending an area; this paper has been classified beyond the clearance of the author. The third paper calculates the pressure
The coefficient of axially symmetric bodies steadily accelerating to a given Mach number; it has been submitted to a journal.

The Director managed the AFOSR Summer Seminar on Communication Cybernetics, 15-26 June 1964, in Cloudcroft. These Seminars are financed by a grant from the Air Force Office of Scientific Research. President Popejoy participated in the opening ceremony on behalf of the University. The lecturers and their topics were:

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<tr>
<th>Topic</th>
<th>Lecturer</th>
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<tbody>
<tr>
<td>Cybernetics Today</td>
<td>Dr. W. Ross Ashby</td>
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<td>University of Illinois Urbana, Illinois</td>
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<td>People, Problems and Computers</td>
<td>Dr. A. L. Kobler and</td>
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<td>Dr. David L. Johnson</td>
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<td>University of Washington</td>
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<td>Seattle, Washington</td>
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<td>Self-Organizing Systems</td>
<td>Dr. Heinz Von Foerster</td>
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<td></td>
<td>University of Illinois Urbana, Illinois</td>
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<tr>
<td>Communication Theory and Practice</td>
<td>Dr. John M. Wozencraft</td>
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<td>Massachusetts Institute of Technology</td>
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<td>Cambridge, Massachusetts</td>
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<td>Communication and Large Organization</td>
<td>Drs. Sydney and Beatrice Rome</td>
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<td>System Development Corporation</td>
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<td>Human Interaction and Communication with Computers</td>
<td>Dr. Allen Newell</td>
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<td>Carnegie Institute of Technology</td>
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<td>Pittsburgh, Pennsylvania</td>
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<td>Information Processing and Decision Making</td>
<td>Dr. Paul M. Fitts</td>
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<td>University of Michigan</td>
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<td></td>
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<td>Sensory Factors in Receiving and Transmitting Information</td>
<td>Dr. Richard L. Gregory</td>
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<td>Cambridge University</td>
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<td>Structure and Functional Organization of the Brain</td>
<td>Dr. Ross Adey</td>
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<td>Topic</td>
<td>Speaker</td>
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<tr>
<td>Possible Molecular Bases for Information Storage and Transfer in the Brain</td>
<td>Dr. Holger Hyden</td>
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<td>Philosophical Aspects of Cerebral Function</td>
<td>Dr. Ralph W. Gerard</td>
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<td>Effects of Drugs on Brain Function</td>
<td>Dr. Joel Elkes</td>
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<tr>
<td>International and Cross-Cultural Communication</td>
<td>Dr. Ithiel de Sola Pool</td>
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<tr>
<td>Communication and Organizational Effectiveness</td>
<td>Dr. Rensis Likert</td>
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This Seminar was attended by about 160 persons with an average attendance of 75.
During the academic year 1963-64, enrollment figures for both fall and spring semesters show a slight increase over the previous two years. A very slight decrease in graduate course enrollments was more than offset by increases in the undergraduate area, including some liberal arts offerings. Table 1 summarizes enrollment trends for the last four years.

At the 1964 Commencement, 11 persons received degrees from the University of New Mexico as a result of study at the Los Alamos Graduate Center. The number of degree recipients and their fields of study for the past several years are shown in Table 2. To date 99 individuals have received degrees from the University of New Mexico through study (in whole or in part) at the Graduate Center.

In view of gradually increasing expenses it has become necessary to examine carefully the cost structure of the Los Alamos Graduate Center. The most significant cost determinant is the percentage of courses taught by University of New Mexico faculty members. On the average, a three-hour course taught by a University of New Mexico faculty member costs $3,400, including travel and living expenses, whereas a course taught by a Los Alamos Scientific Laboratory or local instructor costs around $900. When the Graduate Center was set up in 1956, the University faculty felt that 70% of the instructors teaching at Los Alamos should be furnished by the University of New Mexico in order to maintain quality and control. Since that time average faculty salaries on campus in engineering and the physical sciences have increased over 60% causing a concomitant increase in the cost of the Los Alamos program. In 1961-62, the University of New Mexico faculty utilization percentages were 67% and 74% for the fall and spring semesters, respectively, and in 1963-64 the percentages were 30% and 54%. In view of this past experience, a 50% utilization of campus faculty would appear to be an adequate and reasonable goal for the next few years. A realistic objective for the Los Alamos Graduate Center is to keep the cost per student credit hour below $60. Note in
in Table 1, the cost per student credit hour in 1961-62, when the campus instructor utilization percentages were 67% and 74%, was over $63.

Effective this fall the dislocation bonus for teaching courses at Los Alamos has been modified. The following standard schedule has been established replacing the previous 10% bonus.

<table>
<thead>
<tr>
<th>Instructor</th>
<th>$600</th>
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<tr>
<td>Assistant Professor</td>
<td>800</td>
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<tr>
<td>Associate Professor</td>
<td>1000</td>
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<tr>
<td>Professor</td>
<td>1200</td>
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</table>

In view of gradually increasing costs and slightly decreasing graduate enrollments, the curriculum needs in the seven degree areas available at the Graduate Center have been carefully analyzed. In cooperation with the departments on campus, acceptable three-year cyclic offerings of important core courses in Chemistry, Electrical Engineering, Mechanical Engineering, Engineering Science of Materials, and Nuclear Engineering have been planned. Enrollments in Physics and Mathematics courses are sufficiently large to allow more frequent offerings. It is hoped that the plan of cycled core course offerings along with more and closer student advisement will provide reasonable individual progress towards advanced degrees at Los Alamos.

Effective July 1, 1964 the method of supporting the Graduate Center has been changed from a subcontract handled by the Los Alamos Scientific Laboratory Business Manager to a purchase order negotiated by the Supply and Property Department.

The following new members of the Graduate Center Advisory Council were appointed:

- James S. Church (1964-1967) Engineering
- George N. White (1964-1967) Mathematics
## LOS ALAMOS GRADUATE CENTER

### 1. July, 1964

#### ACADEMIC (FISCAL) YEAR 1960 - 1961

<table>
<thead>
<tr>
<th>SEMESTERS</th>
<th>Summer</th>
<th>Fall</th>
<th>Spring</th>
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<td>REGISTRATIONS:</td>
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<td>Dissertation (PhD)</td>
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<tr>
<td>Thesis (MS)</td>
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<td>Undergraduate Courses</td>
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<td>98</td>
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<td>Non-credit Courses</td>
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<td>Semester totals</td>
<td>11</td>
<td>400</td>
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<tr>
<td>Yearly totals</td>
<td>716</td>
<td>595</td>
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| * CREDIT HOURS: | | | |
| Semester totals | 33 | 1,154 | 886 |
| Yearly totals | 2,073 | 1,733 | 660 |

| INDIVIDUALS ENROLLED: | | | |
| Semester totals | 11 | 320 | 267 |
| Yearly totals | 598 | 503 | |

| NUMBER OF COURSES: | | | |
| Offered | 1 | 28 | 26 |
| Given | 1 | 27 | 24 |
| AVERAGE COURSE ENROLLMENT | 14.8 | 12.7 | 12.8 |

| COSTS PAID U.N.M. | | | |
| Summer & Fall | $42,032 | $58,886 | $48,876 |
| Spring | $40,607 | $51,448 | $46,045 |
| Academic (fiscal) Year | $82,639 | $110,334 | $94,921 |
| CREDIT HOUR COSTS: | | | |
| Summer & Fall | 36.42 | 56.40 | 53.83 |
| Spring | 45.83 | 57.27 | 57.27 |
| Academic (fiscal) Year | 39.86 | 63.67 | 54.24 |

*Credit Hour Equivalent used for Registrations as an auditor, or for non-credit courses, Thesis or Dissertation.*
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*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.*
1. Significant developments during the Academic Year, 1963-64, were as follows:

a. AFROTC Detachment #510, The University of New Mexico, was inspected by two separate teams - one from Air University Headquarters at Maxwell AFB, Alabama, 13-15 Nov 63; the other team was from Headquarters USAF, Norton AFB, California, 10-12 May 64. Both teams commented favorably on our comprehensive publicity and recruiting program. In addition, the cadet leadership program as well as flying indoctrination and base visitations were considered above average.

b. On 19 March 1964, Col. Walter T. Carter, Chief, Professional Education Division, Directorate of Personnel Training and Education, conducted a staff visit to this detachment. The purpose was to observe the detachment's general operation and to confer with Drs. Charles Woodhouse and Patrick Lynch on the research study indicated below.

c. During the year the Department has been actively assisting in a research study conducted by Professors Charles E. Woodhouse of the Department of Sociology and Patrick D. Lynch of the Department of Educational and Administrative Service. This study, entitled "Influence of Campus Environment on Student Commitment to a Paramilitary Organization", has been supported by a grant of $33,000 from the Air Force Office of Scientific Research. Purpose is to investigate the conditions affecting recruitment, retention and leadership attainment in the AFROTC. The research has required the use of Air Science class...
time for cadets to fill out questionnaires, the voluntary time of cadets for individual interviews, as well as consultation between the Air Science Faculty and the project research staff. In addition, the Department has furnished working space and its administrative staff has provided continuous assistance in many other ways. The project is expected to continue for at least another year and it is hoped that findings of the research on this campus will be helpful to Air Force ROTC Detachments on other campuses throughout the country.

d. Brigadier General William C. Lindley, Commandant, Air Force ROTC visited the detachment for the first time, 24 October 1963. During this visit, he conferred with President Popejoy, UNM, and President Roger Corbett, New Mexico State University. General Lindley also gave a television interview over KNME.

e. The Aerospace Briefing Team visited the campus on 4 March 1964, and taped a broadcast over KNME TV. The program, depicting our latest developments in space, have been shown several times over the Educational TV Channels of New Mexico.

f. Air University, Maxwell AFB, Alabama invited this University to participate in a two-day faculty visit of AU. USAF air transportation was provided for Dr. Richard Clough, Dean of Engineering, Dr. Morris S. Hendrickson, Dean of Arts & Sciences, Dr. Charles Woodhouse, Ass't Professor of Sociology, Dr. Paul Petty, Chairman of Education & Admin. Services, and Dr. M. H. McMichael, Assistant Director of Extension Division. The group toured all education facilities on Maxwell and received a briefing from General Lindley.

g. Staff authorization remained constant during the year. The detachment is authorized and has assigned three officers and three non-commissioned
officers.

h. The overall cadet enrollment increased 37% over the previous year. The Corps increased in size from 144 after fall enrollment 1962 to 197 after 1963's fall enrollment. As of the end of the spring semester 1964, the class enrollment was as follows:

| Air Science 1 | 90 |
| Air Science 2 | 31 |
| Air Science 3 | 15 |
| Air Science 4 | 20 |
| **Total** | **156** |

i. During the 1964 Fiscal Year, sixteen UNM students were awarded commissions in the U.S. Air Force. It is estimated that eighteen more UNM graduates will become second lieutenants in FY 65.

j. A Freshman-Sophomore honorary known as Silver Wing was established in the fall of 1963. A total of 28 cadets were initiated in two pledge classes. The purpose of Silver Wing is to further the traditions and concepts of the United States Air Force, advance air and space age citizenship, support air power in its roll in national security and aid in the development of future Air Force officers. Members have participated in food drives for the needy, a car wash fund raising day and a food concession stand at Armed Forces Day. Pledges must have a "C" average at UNM and a "B" average in Air Science. Future plans include a meeting with Silver Wing members from Arizona State, University of Arizona and New Mexico State University to formulate plans for closer coordination.

k. For the fourth consecutive year, potential pilots of this detachment participated in the Air Force ROTC Flight Instruction Program. The University sub-contracted for the training with Southwestern Skyways, Inc. through prime contract with the Air Force. One cadet entered the program and successfully completed the training.
1. Beginning with the fall semester, 1960, Air Science 3 and 4 were taught on an alternate year basis. Air Science 3 was taught this academic year, 1963-64. During AY 64-65, Air Science 3 and 4 will be taught separately as a result of revisions to the sophomore and junior curricula.

m. Angel Flight, the Women's Auxiliary to Arnold Air Society (AAS), had 39 members during the academic year. These ladies not only maintained an active drill team but they assisted AAS in numerous community service projects. At the National Arnold Air Society Conclave held in April 1964 in Denver, the University of New Mexico Angel Flight was designated Area I Headquarters. This means that the UNM Angel Flight staff commands all Angel Flights in New Mexico, Arizona, and California.

n. Eight base visitations were conducted to familiarize cadets with Air Force Base Functions. Trips were taken to Davis-Monthan AFB, Arizona, Hill AFB, Utah, Edwards AFB, California, Kirtland AFB, and Holloman AFB, New Mexico, Miramar NAS, California and Lowry AFB, Colorado. Twenty-three jet (T-33) orientation flights from Kirtland AFB, were conducted during the Academic Year 1963-64. Three multi-engine orientation flights were conducted. At the end of the year 50% of A.S. 1, 64% of A.S. 2, 61% of A.S. 3 and 62% of A.S. 4 had participated in a Base Visitation. 53% of A.S. 1, 59% of A.S. 2, 72% of A.S. 3 and 38% of A.S. 4 were flown on military aircraft. The purpose of these flights were to familiarize the cadets with Air Force Bases, aircraft operational procedures, and fundamentals of flying.

o. The Drill Teams, both the Cadets and Angel Flight, participated in the Sunshine City Drill Competition in Tucson, Arizona in February. The cadets also participated in a Meet at Hill AFB, Utah. The men's team won third place in the Utah competition.
p. We have maintained a vigorous information program throughout the Albuquerque area. Close contact with all radio and TV stations has been established. Numerous speeches were given by detachment officers and advanced cadets to interested high school students throughout the state. During Career Day at UNM, advanced cadets manned an information booth in the Student Union Building. Recruiting folders were sent to all incoming male freshmen explaining the AFROTC program.

q. Arnold Air Society. The AAS had another excellent and very active year. Their activities included a formal joint initiation with Silver Wing and Angel Flight at Kirtland Officer's Club, a Christmas party for St. Anthony's boys home jointly sponsored with Angel Flight, representation at the National Conclave in Denver and several other civic and social functions.

2. Significant plans and recommendations for the near future.

a. During Academic Year 1964-65, the detachment will continue with its extensive counselling and guidance program concentrating on increasing the quality and quantity of our product.

b. A revised curriculum will be implemented next year in our sophomore and junior years. This curriculum is entitled "Officer Education Curriculum," and will be completed in Academic Year 65-66 when we implement in the freshman and senior years. This will not be a new curriculum but a necessary up-dating or modernization process, one that will be in consonance with the new (2 year) program should the proposed legislation become law. The legislation passed the House of Representatives in July 1964.
c. The Flight Instruction Program will continue in the next academic year. It appears that we will have four cadets participating.

3. There were no Administrative Appointments to the Staff.

4. There were no Administrative Separations from the Staff.

WILLIAM C. NAYLOR
Lt Colonel, USAF
Professor of Air Science
ANNUAL REPORT OF NROTC UNIT
1 July 1963 - 30 June 1964
ROBERT V. R. BASSETT, Jr., Captain, USN

15 August 1964

1. Significant developments during the academic year 1963 - 1964:
   a. Number of graduates during this period.

   (1) NROTC:
      Ensign, USN                       Aug 63 Feb 64 Jun 64 Total
      Ensign, USN-R                     1  1  10  12
      Second Lieutenant, USMC           1  2  3
      Total:                            2  1 14  17

   (2) NESEP:
      Second Lieutenant, USMC           1  1

   (3) NAVY NURSE CORPS
      Ensign, US Nurse Corps            2  2

   (4) Five-term Officers
      1  1  2

   b. NROTC enrollment for academic year 1963 - 1964:

      Regular Contract
      Beginning End Beginning End
      Freshmen                        25  22  43  21
      Sophomores                      36  28  22  10
      Juniors                         19  21  4   4
      Seniors                         23  11  8   1
      Total:                          103 82  77  36

   c. NESEP enrollment for academic year 1963 - 1964:
      Beginning End
      62  59

d. Social activities of NROTC Midshipmen:

- 1 -
(1) The NROTC Wardroom Society, whose membership included about 170 members, sponsored three dances during the year.

(a) On 22 February 1964 the joint NROTC-AFROTC Military Ball was celebrated with a formal dance at the Student Union. The Navy Queen for 1964, Miss Margaret Sharp, was crowned by Captain Bassett. Music was provided by the Jack Shearing Band. A Guard of Honor was furnished by the NROTC Sword Team.

(b) On 11 April 1964 the Shipwreck Ball was held at the saloon in Little Beaver Town, the ball theme revolved around a shipwreck on a South Sea Island. Music was provided by the "Invaders".

(c) To honor the graduating seniors and the new senior class, the annual Navy Ring Dance was held at the Knight's of Columbus Hall on 9 May 1964. Rings were presented to the prospective seniors by their ladies after ceremonial dipping in waters from the Seven Seas. Music was furnished by Chuck Castle's Band.

(2) The Naval ROTC Women's Auxiliary, known as "Clippers", started their second year with a Fall Rush program in which 21 women were pledged. The Clippers have three goals: first, to provide an interest in the NROTC on the UNM campus; second, to learn about the traditions and customs of the Navy; and third, to organize a drill team.

During the year, the Clippers participated in the following activities:

(a) Informal coffees were held monthly for the midshipmen

(b) A Christmas tree was decorated for the NROTC Midshipmen Wardroom

(c) On the 3 May 1964 a commissioning banquet was given in honor of the graduating senior Midshipmen at the Sandia Base Officers Club. Invitations were extended to the Staff of the NROTC Unit.

(3) On the 5th of June 1964, ten midshipmen received their
commissions as Ensigns in the U. S. Navy; two received their commissions as Ensigns in the U. S. Navy Reserve; two were commissioned as Second Lieutenants in the U. S. Marine Corps; and one NESEP student was commissioned Second Lieutenant in the U. S. Marine Corps.

Captain and Mrs. Bassett honored graduating midshipmen and their guests at a reception at their home during the afternoon.

The new officers received their University of New Mexico diplomas Friday evening, 5 June 1964, at Commencement Exercises in Johnson Gym.

e. Navy Flight Indoctrination Program:

Again this year ten midshipmen, BuPers quota for the University of New Mexico, participated in the Flight Indoctrination Program which was conducted by the Cutter Flying Service. The program started in October 1963 and nine midshipmen received their private pilot's license in February 1964. One student dropped the program in December because of academic deficiencies at the University.

f. NROTC Drill Team Competition:

On 8 February 1964 nineteen midshipmen comprising the Drill Team of the NROTC Unit of the University competed in the Sun City Drill Competition at Tucson, Arizona. The team was first in Inspection and placed fourth out of 25 teams in the Drill under Arms category. Of the six Naval ROTC Units competing the University of New Mexico team placed highest.

g. NROTC Rifle Team Competition:

After several years of inactivity the NROTC Rifle Team entered into shoulder-to-shoulder competition. Their first match was at Golden, Colorado where they placed 6th out of 18 teams. Their record match was fired at Texas Western in El Paso, Texas. In this match they only placed 24th out of 35 teams, but considering their inexperience and the caliber of competition
they did very well. In their principal postal match of the year they placed 2nd in the EIGHTH Naval District.

h. NROTC Intra-mural Participation:
   1. On 12 October 1963 the NROTC Intra-mural Swim Team, repeating the last two year's victories, again took first place overall in the swim meet.
   2. The NROTC Unit participated in the University Fall Intra-mural Program with an active basket-ball and foot-ball team.

i. NROTC Orientation Field Trips:
   1. During spring vacation 19 midshipmen toured the Naval facilities in San Diego, California. The four and one-half day trip covered a large variety of ships and equipment used by the U. S. Navy.
   2. On 1 April 1964, a number of midshipmen visited Marine Corps training facilities in Southern California. They observed recruit training at San Diego and infantry training at Camp Pendelton, California.

j. THE ANNUAL JOINT REVIEW AND AWARDS CEREMONY was held on 12 May 1964. Awards presented were:

   1. General Dynamics Award for the Outstanding Achievement to a NROTC Senior - Midshipman Howard H. Hubbard, II
   2. North American Aviation Corporation NROTC Flight Indoc-
      trination Program Award to Senior with highest flight and ground school grades - Midshipman Glenn E. Fant, Jr.
   3. Navy League Award for Outstanding Performance in NROTC-
      Midshipman Ray L. Caldwell
   4. Military Order of World Wars Award for High Motivation
      and Aptitude for a Service Career - Midshipman Cameron
      R. Gray
   5. Retired Officer's Association Award for Motivation and
      Excellence in Naval Science - Midshipman Brian L.
      Weidber
6. Albuquerque Rotary Club Award for Outstanding Citizenship and Leadership - Midshipman Dwight E. NUNN, Jr.

7. Sons of the American Revolution Award for Obtaining Highest Academic and Leadership Grades in Military Science - Midshipman Dwight E. NUNN, Jr.

8. Albuquerque Chapter of the Reserve Officer's Association Award for outstanding Aptitude and Motivation for Aviation - Midshipman Glenn E. FANT, Jr.

9. Reserve Officer's Association - Bronze Medal - to Junior for Highest Administrative and Organizational Ability - Frank J. KALAS, Jr.

10. Reserve Officer's Association - Silver Medal - to Senior for Highest Administrative and Organizational Ability - Midshipman Phillip J. MALL

11. Marine Corps Association Award to the Outstanding Marine Option Student - Midshipman William T. OLD, III

12. Naval Institute Award for Outstanding Performance in the NROTC Regular Program and Contract Program - Midshipman Ray L. CALDWELL-Regular; Midshipman Robert E. SABINO-Contract

k. SEVENTY-FIFTH ANNIVERSARY YEAR:

Celebrated 28 February 1964. The Unit joined in preliminary planning for relocation on the campus of the bell of the battleship New Mexico. Planning was also started for a small Navy Museum to be located prominently in the entrance to the old University Stadium. This exhibit will contain the steering wheel and several bronze plaques denoting key personnel and awards of the battleship. A building model of a Cleveland class cruiser complete with glass case was obtained from the David Taylor Model Basin for display in the museum.

1. NAVY Enlisted Scientific Education Program (NESEP)

The Navy Enlisted Scientific Education Program (NESEP) enrolled a total of 21 freshmen at the beginning of this academic year which brought the total to 62, the largest enrollment
since commencement of the program.

A study was prepared by Virgil F. McCaleb, copy attached, entitled "Reasons Behind The Academic Success of the NESEP Freshman at the University of New Mexico during Semester I, 1963-64."

m. **Five-term Officers:**

The two five-term officers completed their studies for a bachelor's degree during this academic year. No future enrollments are anticipated in this program.

n. **Nurse Corps Program:**

Two students in the Nurse Corps Program were commissioned in December 1963. They graduated in June and were ordered to Officer Candidate Training School at Newport, Rhode Island. Upon completion of this training, about eight weeks, they will report to the U. S. Naval Hospital, Bethesda, Maryland for duty.

c. In a study conducted for the Chief of Naval Personnel, the University of New Mexico NROTC Unit had the greatest percentage of potential career officers among its graduates, than any of the other 51 colleges and universities which sponsor the program. The study took an annual count over a ten year period of the number of officers who remained in the Navy at least one day beyond their obligated service. For the University of New Mexico it was 34.4 per cent.

d. **NROTC Summer Cruise:**

On 20 June 1964, 90 NROTC Midshipmen of the University of New Mexico departed for summer cruises. They will participate in this program and sail on U. S. Naval vessels throughout the world.

2. **Significant plans for the future:**
a. It is anticipated there will be 25 to 30 incoming Regular NROTC Midshipmen and approximately 40 Contract students enrolled this fall.
b. Approximately 17 NESEP A Students will be ordered to the University of New Mexico Semester I, 1964-1965, to augment those already in the Program.

3. Administrative appointments to the staff:
   a. Mrs. Dutch COSSICK 8 July 1963
   b. YNCS Jerald W. MYERS 11 July 1963
   c. LCDR William "A" FAUCETT 26 August 1963
   d. CDR Edward D. JONES 27 August 1963
   e. LTJG Norman R. MALMBERG 30 August 1963
   f. LT John T. THORNSLEY 3 September 1963
   g. LT John A. STEPHENS 27 November 1963
   h. YNC Sammy C. NIXON 30 June 1964

Names of Incoming Personnel & Proposed Date of Arrival:
   i. LT D. W. JUNKER September 1964
   j. MAJ R. E. HAEBEL September 1964
   k. Hector H. LARKIN, GMGC September 1964
   l. Albert N. SHIPMAN, GMGC October 1964

4. Administrative separations from the staff:
   a. QM1 James C. EVERITT 15 August 1963
   b. LCDR Keith K. STROUPE 31 August 1963
   c. LTJG Norman R. MALMBERG 20 September 1963
   d. EM3 James K. PARR 27 January 1964
   e. LT Clyde A. L. CARTER 5 June 1964
   f. MAJ Donald C. STANTON 29 June 1964

5. Publications:
   a. The SUNLINE is published four times a year at the NROTC Unit of the University of New Mexico, through NEMO Publishing, Ltd., a midshipmen organization which is in no way connected with the Department of the Navy. Opinions
expressed by the publishers and editors are their own and are not to be considered an official expression of the Department of the Navy. The purpose of the SUNLINE is to further interest in the NROTC Unit of the University of New Mexico by presenting the Unit's activities throughout the year as well as publishing items of general naval interest.

b. The MARK '64, NROTC year book, was published this spring for the first time in ten years.

Copy of SUNLINE and MARK '64 enclosed.

6. Outside Professional Activities of Staff Members:

a. The Commanding Officer, Captain Robert V. R. Bassett, Jr. was Senior Naval Officer Present and Commandant, EIGHTH Naval District Representative in the Northern New Mexico Sub-Area.

7. Outside-sponsored research:

None.

Robert V. R. BASSETT, Jr.

Robert V. R. BASSETT, Jr.
A broadened program and more widely diversified services and steadily increasing demands for still further implementation of the Bureau's role in the affairs of the University, the State, and local governments, institutions, and private groups characterized 1963-64 at the University's Bureau of Business Research. Both the variety and the detail with which such activities were carried on are emphasized in appropriate sections below.

I. PROGRAMS AND ACTIVITIES

Bureau activities can generally be divided into six main categories: (1) gathering, compiling, and processing of statistics and other data dealing with economic activities in the State; (2) description, analysis, and interpretation of the business and economic life of the State; (3) application of new techniques of analysis to broaden and strengthen Bureau understanding of economic changes; (4) provision of an ever-widening variety of services to the business and the government communities and to private citizens; (5) arranging and participating in conferences; and (6) dissemination of information and data through a variety of publications. During 1963-64 almost every category of the six was expanded in one way or another.

I. Data Collection and Processing.--The basic objective of the Bureau's data program is the provision of information on New Mexico economic and business activities. During 1963-64 all established statistical series were maintained, the extensive review of our data-collecting and processing programs (begun two years earlier) was continued; and the standard statistical offerings, published monthly in New Mexico Business, were enlarged by two
columns giving cumulative monthly averages for a current year for each item already included in the table and the percentage change for each from the corresponding cumulative figure for the preceding year. Also, preparations were begun for the inclusion in later issues of NMB (beginning in August 1964) of indexes for manufacturing production. And the 1960 and 1961 income and employment estimates, by county, were revised and published, along with estimates for 1962.

2. **Special Projects**

   (1) Projects. --The Bureau's Small-Business-Administration projects on (a) small-business management practices in the State and (b) possibilities for expanding the State's forest industries were both completed and the reports on them published.

   (2) State Resources Development Project. --An input-output study was begun as part of the Bureau's participation in the giant state-wide Resources-Development Project. Two reports were published in NMB and subsequently reprinted, one of them having gone into a second printing. Also, the Bureau assumed the administrative responsibility for all UNM personnel participating in the big project—a role of considerable responsibility; and the broad scope of such Bureau participation was largely responsible for the sizeable increase in the Bureau's staff during the year. This undertaking, which the Bureau was encouraged by University administrative officials to assume, represents a major effort to integrate Bureau programs with those of the University faculty. At this time the Bureau is working with people in the Departments of Government, Sociology, Geography, Business Administration, Law, and History.
(3) Economics of Hunting and Fishing in the State. -- The Bureau sponsored a study (continuing into the next fiscal year) of the economics of hunting and fishing in New Mexico. The project is financed by the State Department of Game and Fish and is being conducted by Mr. Kirkpatrick, of the College of Business Administration. The Bureau has supplied all editing and technical preparation of forms (questionnaires, etc.) used in the survey.

(4) Indian Ceremonial. -- At the request of the Inter-Tribal Indian Ceremonial Association, Gallup, the Bureau directed a study of data collected during the 1963 Ceremonial. This study, also, was conducted by Mr. Park, of the College of Business Administration; and forms, etc., were prepared at the Bureau.

(5) Indian Study. -- Miss Meaders completed her two-year study, a pioneering effort, of the economic situation of New Mexico's Indians. It resulted in a series of four NMB articles later issued under one cover and now in the second printing.

(6) Financing Higher Education. -- Mr. Blumenfeld's study of the problems of financing higher education in New Mexico was issued in condensed form, with three of the five parts having been published during the year and the other two scheduled for fall 1964 issues of NMB.

(7) Recoding Project for the Department of Revenue. -- The Bureau completed an extensive project of recoding the cards used by the New Mexico Department of Revenue for recording school-tax license holders, an important step in the reorganization of that department's system of reporting revenues. Once the system has been established, the Bureau of Business Research will be able to resume monthly publications of the vastly important and popular data on trade in the State.
(8) Personal Visits by the Director and the Business Analyst. — Mr. Blumenfeld and Mr. Edgel visited 25 communities throughout the State during December and January, talking with bankers, ESC officials, Chambers of Commerce, official personnel at institutions of higher learning, newspaper editors, and the like. The purpose was to gather for the Bureau first-hand knowledge of and clearer impressions regarding the economic situations in the various areas of New Mexico.

The exceedingly cordial reception given the two representatives wherever they went was both pleasing and enlightening. In every community, individuals expressed their gratification for the interest the University and the Bureau were thus demonstrating in area and community problems. In many cases Mr. Blumenfeld and Mr. Edgel later received letters of appreciation for their visits. The experience immediately proved invaluable in the preparation of estimates of population, income, and employment, of the annual review issue of NMB, and in adding to the reservoir of general understanding the Bureau already possessed of the State's economy. Places visited included Alamogordo, Las Cruces, Deming, Lordsburg, Silver City, Bayard, Santa Rosa, Tucumcari, Clovis, Portales, Lovingston, Hobbs, Carlsbad, Artesia, Roswell, Espanola, Taos, Raton, Clayton, Springer, Las Vegas, Grants, Gallup, Farmington, and Chama.

(9) Gross State Product. — During June, work was resumed on estimates of the Gross State Product for the years 1947-62. A. David Sandoval rejoined the staff for the summer, to continue this project.

(10) Flow-of-Goods Study. — The New Mexico Flow-of-Goods study for the Albuquerque Industrial Development Service was temporarily suspended.
However, information collection for the study continues as part of the input-output project.

(11) General Consulting. -- The Bureau served as technical consultant for various state agencies, especially on tax and revenue matters.

3. Publications and Related Activities

Publications issued during the year included the 12 regular issues of New Mexico Business, six monthly and three quarterly issues of the Retail Food Price Bulletin (which became a quarterly in 1964), three titles in the "New Mexico Studies in Business and Economics Series," and one title in the "Business Information Series."

NEW MEXICO BUSINESS. -- This monthly journal won for the Bureau's editor the national first place in the annual contest of the National Federation of Press Women for the division of specialized magazines edited by women. Also, beginning with the March issue, NMB got a face-lifting with a new cover design.

Each issue contained more than 60 regular statistical items (most of them represented by at least five measures) and 14 preliminary items (of five measures each), describing the State's business activity. Each issue also carried a brief interpretative article dealing with those measures. As noted earlier, two columns were added to the tables presenting these items.

Each issue also included at least one major article. As usual, one issue was a review of the State's economy during the preceding calendar year. Eight reprints were issued, two of them now in second printings.

A most encouraging project was a survey, made in the winter, of NMB readers--recent articles read, evaluation of those articles (valuable, interesting, too technical, etc.); general use of statistics and of the monthly
summary article; general comments and suggestions, etc. Much to the surprise and pleasure of the staff, the survey revealed much more careful reading of and regard for NMB offerings and much wider use of the journal.

In line with many suggestions for more varied articles and with the Bureau's new policy of increasing the general awareness of NMB, we set out to arouse interest among faculty members of the State's colleges and universities (including UNM), with the aim of attracting nonstaff authors. Results have been good: between February and June four nonstaff articles were published, and eight others were tentatively scheduled for appearance within 1964.

Major efforts were also begun (and will be continued) to enlarge NMB circulation, including paid subscriptions and distribution to official and quasi-official persons, offices, and agencies. The circulation increase for the fiscal year was 22 per cent. The average monthly circulation was 1,120; total copies distributed—13,436.

NMB articles were the following (asterisks indicate reprints issued):

"Some Aspects of Indian Affairs in New Mexico,"* Margaret Meaders, July and August 1963 (Reprinted as The Indian Situation in New Mexico; the series won the New Mexico Press Women's first prize for a series of magazine articles).
"Bureau Directors: Edgel and Blumenfeld" (note), Margaret Meaders, September 1963.
"The Economics of Higher Education in New Mexico, 1960-1980," Arthur A. Blumenfeld, October, November, and December 1963 (will be issued as a single reprint upon completion of the series).
"Proration" (reprinted from the Pipeliner), December 1963.
"Industrial Structures of the New Mexico Economy,"* Sang O. Park & Jacqueline Silverman, April 1964.

"Latin America's Business World as I have Seen It,"* Virginia Reva, April 1964.

"Economics of Recreation as Measured in the Ruidoso Ranger District of New Mexico,"* James R. Gray (associate professor, New Mexico State University), May 1964.


"The Economics of Multiple Uses of Natural Resources,"* James R. Gray, June 1964.

Other Publications.--The three titles in the Business-and-Economics series were Executive Selection, Development, and Retention Practices of Rapidly Growing Small Business, by Howard V. Finston and Karl Christman (SBA project), No. 12; The Outlook for Expanding New Mexico's Forest Industries, by Rudyard B. Goode and Harold W. Corley (SBA project), No. 13; and Income and Employment in New Mexico, 1960-62, by Ralph L. Edgel and Peter J. LaLonde, No. 14. The one addition to the Business-Information titles was Estimates of the 1963 Population of New Mexico Counties, by Ralph L. Edgel. Total NMB reprints and BIS and SBE copies sold totaled 1,500. It should be noted that all three SBE titles were issued very late in the fiscal year. Also of significance is the fact that the two immediately preceding SBE titles were distributed free to purchasers of No. 8. In addition, the policy of free distribution was accelerated during the year, so that actual sales were greatly affected. From now on, we hope to report total circulation by title (instead of sales only) of all publications.
4. Requests for Information

The Bureau last year received 748 requests for information in addition to those for specific publications.

<table>
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<th>Requests Filled</th>
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Because our publications now cover a fairly wide range of information about New Mexico and are listed in bibliographical sources of national circulation, an increasing proportion of the increasing volume of requests for information asks for specific publications. This fact, together with the other fact that the reorganization of our library and files has made information more readily accessible, making it possible to handle a considerable volume of the requests on a quasi-routine basis. Moreover, Mrs. Park and Mrs. Huzarski have become so conversant with our information resources and so adept at determining what inquirers want and need, that the number of requests necessarily here referred to senior members of the staff has been reduced to the minimum.

5. Conference Program

Our participation in the Southwest Management Conferences continued throughout the year. In addition, the Bureau was a co-sponsor with the State Highway Department of a conference for project engineers; conducted in
cooperation with the Bureau of Indian Affairs, a nine-week workshop in the summer of 1963 for Indian businessmen; is this summer sponsoring, in cooperation with the BIA, an eight-week summer program for managers of Tribal business enterprises (attended by Indians from all across the Nation); sponsored, in cooperation with the State Tax Commission, the First (Annual) Conference of Local Property-Tax Officials; and was asked to sponsor or conduct other similar conferences, which were ruled out by the Bureau's heavy load of activities.

The demands upon the Bureau for such activities have become so great that for the coming year a part-time professional person will be added to the staff to develop and coordinate conference programs (a joint appointment with the Colleges of Education and Business Administration).

II. STAFF

Arthur A. Blumenfeld, M.A., Director, Appointed Research Assistant 11/21/55; appointed Assistant Economist 9/1/58; appointed Associate Economist 7/1/62; Acting Director 8/1/62; resigned 1/31/63; appointed Director 9/1/63 (on leave 6/1/64 to 9/1/64). Talks: Area Trade Development Committee of the Albuquerque Chamber of Commerce Economic Development Workshop; New Mexico Bankers Ass'n, Farmington; Joint Legislative Finance Committee, New Mexico Legislature, Santa Fe; New Mexico State Association for Retarded Children, Albuquerque Council of Affiliates; Albuquerque Community Council; American Federation of Teachers, AFL-CIO; New Mexico Municipal League, Treasurers and Clerks Workshop; Three "M" Program, UNM; Seminar in Architecture, UNM. Meetings: Annual Meeting, American Economic Association, Boston; State Resources Development Plan, meeting of participants; three formal meetings in Santa Fe, chairman of section dealing with economic projects. Governor's Public School Study Committee, Santa Fe (presented paper, which was included in final Committee report, outlining financial requirements and resources of New Mexico's public school in the next ten years). Other Activities: Consultant to the State Department of Finance and Administration on revenue-estimating techniques and procedures; intensive investigation of the Aerospace Research Applications Center (ARAC) at Indiana University; member of University committee which prepared and submitted a proposal to the National Aeronautics and Space Agency (NASA) for the establishment of the Technical Applications Center.
(TAC) at UNM; attended week-long course in electronic-computer programming at the IBM San Jose California plant; extensive work for the Community Profile Committee of the Albuquerque Community Council; consultant on statistical reporting techniques to the New Mexico Bureau of Revenue; article published in UNM Alumni magazine, "Financial Problems of Higher Education in New Mexico"; additional graduate work, University of Colorado. Memberships: American Economic Association; Western Economic Association, National Tax Association; Western Government Research Association; Albuquerque Community Council; Technical Applications Center, UNM, Associate Director for Business.


Sang O. Park, Ph. D., Economist and Assistant Professor of College of Business Administration; appointed July 1, 1963; resigned May 31, 1964.

A. David Sandoval, M.A., Assistant Economist; appointed August 21, 1961; resigned August 31, 1963 to work on his doctor's degree; reappointed as Associate Economist June 8, 1964 for summer months.


David M. Bloom, B.S., Assistant Economist; appointed March 9, 1964.


Jacqueline J. Silverman, B.S., Research Assistant; appointed July 1, 1963.


Margaret I. Meaders, M.A., Editor, appointed March 18, 1957. Awards: the Annual Zia Award ("for distinguished writing") of the New Mexico Press Women (presented in July, but based on the 1963 year); the first place in both the nation and the state (annual contest of the National Federation of Press Women and the N.M. Press Women) for specialized magazine regularly edited by a woman; also, first prize in the state contest for a series of magazine
articles ("Some Aspects of Indian Affairs in New Mexico"). Won the Alma-
Mater Contest of the Woman's College of Georgia. Publications (in addition
to those in NMB): "Cuna Shell Magic" in the February 1964 issue of Shells
and Their Friends (requested by the editor). Also edited book manuscript
of Dr. Sophie Aberle America's Unfinished Business. Speeches: at the
Southwestern Alumni Editors' Workshop (also served on a panel); at the Annual
State Convention of NM Press Women (and served on a panel); luncheon speaker
at the February meeting of Theta Sigma Phi; made the formal 11-o'clock
address at the opening session of the BIA-State-Tribal Conference in Santa Fe
in May (was also asked to serve as resources person on two panels); was asked
by the Albuquerque C of C to introduce Mrs. Annie Wauneka at a monthly
breakfast (Mrs. W. could not come at the last minute); because of illness, had
to postpone speeches at the New Mexico Council of American Indians and at
the Southwestern Association of Indian Affairs. Conferences: Annual N.M.
Conference on Human Development; quarterly meeting of N.M. Rural Areas
Redevelopment Committees; two conferences of the New Mexico Press Women;
Meeting of Officials of the Resources-Development Project, Santa Fe; Other
Activities: Was special guest of the San Ildefonso Pueblo at its Saint's Day
ceremonies; served as consultant to the assistant dean of women in prelim-
inary plans for a program for UNM Indian students; wrote all text for the
Retail Food Price Bulletin and two food-price newsstories based on each issue
of the RFPB; designed the New NMB cover; appeared in a radio interview on
KHFN; participated in a television program "Short-Sleeve Session" on KNME-TV
and KOB-TV; condensed Mr. Blumenfeld's thesis into NMB articles and con-
densed and did much rewriting of all NMB articles and all monographs and re-
ports issued by the Bureau. Memberships: New Mexico, Albuquerque, and
National Federations of Press Women; Theta Sigma Phi (national honorary
journalism), Pi Gamma-Mu (national honorary social sciences), National
Wilderness Society, National Wildlife Federation, National Geographic Society.

Sandra D. Galloway, B.A., Editorial Assistant, appointed June 1, 1964 (part-
time February through May).

Harold W. Corley, Field Representative, appointed February 19, 1960, to

Shirley J. Huzarski, B.A., Records Supervisor, appointed June 1, 1959 (part-
time from November 30, 1953).

Grace M. Martinez, Statistical Assistant, appointed October 1, 1959, part-
time during year attending UNM, classified as sophomore.

Anita S. Park, B.B.A., Adm. Secretary, appointed August 1, 1955. Out-
side Activities: Secretarial duties for the American Indian Development
Corporations and for Dr. Sophie Aberle.

Louise M. Laval, B.A., Secretary, appointed July 27, 1959; resigned May
29, 1964.


Annabella Candelaria, Stenographer, appointed May 25, 1964.


Fred M. Chreist, Jr., B. B. A., Field Representative, appointed June 4, 1964 for summer months.

Charles D. Storrs, B. S., Field Representative, appointed June 4, 1964 for summer months.

III. PLANS

Requests to and demands upon the Bureau for additional services and programs have grown enormously during recent months. Several such requests, of real importance to the State's business community, have had to be turned down, because the Bureau's building is so crowded (some 20 persons working in an eight-room residential building) and its budget relatively so limited as to rule out any new projects. Nevertheless, expansion of activities is planned, to be carried out in the most efficient manner possible under the circumstances.

We still hope to add to our food-pricing service additional cost-of-living measures, but we shall require financial aid from local industries and business institutions if we are to achieve such expansion of this particular program.

It is our hope that we can soon propose to potential sponsors the development of a New Mexico price index, a measure of inestimable value.

Our county-by-county reports, planned for last year but made impossible by the heavy load of editorial work on Miss Meaders, should be started this fall, with at least one report published by the end of the year. The expectation is that during the next calendar year approximately four such reports will be issued.
Work will move right along on the input-output study and on the administrative tasks connected with the campus-wide participation in the Resources-Development study.

Investigation will be made of the feasibility of converting Bureau statistical records to electronic data-processing machines.

Work will be continued on the gross state product-value added project; on the annual estimates of personal income and of population (both, by counties); on review, revision, and expansion of all Bureau statistics; on participation in the Southwest Management Development Conferences; on the Game and Fish study; and, so far as is possible, on expansion of our conference program.

In the months ahead increased use will be made, it is hoped, of UNM graduate students; and by UNM administrative officials and faculty. Such emphasis will be in line with the Bureau's hope to expand areas of contact with the University faculty, so as to encourage research activities, provide an outlet for appropriate projects, and offer an organizational framework as well as specific types of assistance.

IV. NEEDS AND AIMS

As has been true for years, the crying need of the Bureau is the need for additional space. With the largest staff (both permanent and temporary) in the history of the Bureau, facilities are worse than inadequate. They are crowded and over-used to the point of frustration and inefficiency, at a time when Bureau work is more exacting and varied than ever before and when public demands for Bureau aid in a great variety of activities grows by the day.
As to Bureau aims, most of them are represented in the plans described in the preceding section of the Report. Any others are general: to continue Bureau growth and effectiveness; to strengthen ties with other divisions of the University and with other colleges and universities in the State; to serve the State as a research organization and vehicle; and to broaden the general knowledge of the Bureau's role in the State.
The Office of Director of Research was established in 1957, and the Director of Research was under the administrative supervision of the Academic Vice President. In September 1962 the Office of the Director of Research, at the request of the Director, was changed to Office of Research Services and was placed under the administrative supervision of the Dean of the Graduate School. The title of the Director of Research was changed to Director of Research Services.

In March 1964, the Office of Research Services moved from the Research Center to Graduate School space in the Administration Building. This change in office location has facilitated the services and work of the Director of Research Services.

RESEARCH

Statistics

1. Financial: During FY 1963-64 there were 97 sponsored research programs administered by 18 departments and divisions at the University of New Mexico. For FY 1964 total reimbursements from contracts and grants to the University for research accomplished amounted to $2,168,704.16, an increase of $303,808.53, or 16.3 percent over 1963. Tabulated below are the distribution of net billings for research and the percentage of change:

<table>
<thead>
<tr>
<th></th>
<th>FY 1963</th>
<th>FY 1964</th>
<th>Percentage of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salaries and Wages</td>
<td>$ 903,162.97</td>
<td>$1,154,246.63</td>
<td>+ 27.8</td>
</tr>
<tr>
<td>Expenses</td>
<td>753,613.98</td>
<td>733,873.78</td>
<td>- 2.6</td>
</tr>
<tr>
<td>Indirect Costs</td>
<td>208,118.68</td>
<td>280,583.75</td>
<td>+ 34.8</td>
</tr>
<tr>
<td>Total</td>
<td>$1,864,895.63</td>
<td>$2,168,704.16</td>
<td>+ 16.3</td>
</tr>
</tbody>
</table>
Details of individual projects, by departments, and comparisons between FY 1963 and FY 1964 are given in Appendixes A and B.

In addition to research expenditures funded by extramural agencies through contracts and grants, the University funded research as follows:

<table>
<thead>
<tr>
<th>Department</th>
<th>Salaries</th>
<th>Expenses</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Center</td>
<td>$19,090.70</td>
<td>$1,770.86</td>
<td>$20,861.56</td>
</tr>
<tr>
<td>Computer Center</td>
<td>28,868.78</td>
<td>16,493.55</td>
<td>45,362.33</td>
</tr>
<tr>
<td>Government Research</td>
<td>3,866.58</td>
<td>5,645.20</td>
<td>9,511.78</td>
</tr>
<tr>
<td>Historical Research</td>
<td>19,672.17</td>
<td>7,024.60</td>
<td>26,696.77</td>
</tr>
<tr>
<td>Business Research</td>
<td>64,415.00</td>
<td>7,500.00</td>
<td>71,915.00</td>
</tr>
<tr>
<td>Meteoritics Research</td>
<td>482.80</td>
<td>818.94</td>
<td>1,301.74</td>
</tr>
<tr>
<td>General Research</td>
<td>--</td>
<td>16,581.55</td>
<td>16,581.55</td>
</tr>
<tr>
<td>Research Contingency</td>
<td>--</td>
<td>15,358.82</td>
<td>15,358.82</td>
</tr>
<tr>
<td>Research Publications</td>
<td>--</td>
<td>1,302.45</td>
<td>1,302.45</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$136,396.03</strong></td>
<td><strong>$72,495.97</strong></td>
<td><strong>$208,892.00</strong></td>
</tr>
</tbody>
</table>

Thus, the total University of New Mexico research expenditures during FY 1964 amounted to $2,377,596.16, of which the University funded $208,892, or 8.8 percent.

The dollar value of research contracts and grants on July 1, 1964, was $3,877,052, as compared to $3,568,056 on July 1, 1963, an increase of 8.7 percent.

The trends of research expenditures from contracts and grants are shown in Appendix C which is plotted on a semilogarithmic scale so that equal distances represent equal percentages of change. The percentage of change over the past six years, for which complete data are available, are:

<table>
<thead>
<tr>
<th>Percentage of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Reimbursement</td>
</tr>
<tr>
<td>Salary and Wage Reimbursement</td>
</tr>
<tr>
<td>Expense Reimbursement</td>
</tr>
<tr>
<td>Indirect-Cost Reimbursement</td>
</tr>
</tbody>
</table>

These data show that the percentage increase in total reimbursement is reflected most in the item for research expense, and that salary reimbursement and indirect-cost reimbursement percentage increases have remained about equal. The latter would
be expected since indirect costs are determined as a percentage of salaries and wages in research contracts. Indirect-cost reimbursements have not, however, kept pace with the research effort as is shown by the following data:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Indirect Costs as a Percentage of Salaries and Wages</td>
<td>33.3</td>
<td>33.6</td>
<td>31.6</td>
<td>23.0</td>
<td>24.3</td>
</tr>
<tr>
<td>Indirect Costs as a Percentage of Total Costs</td>
<td>17.5</td>
<td>17.5</td>
<td>16.3</td>
<td>11.2</td>
<td>12.9</td>
</tr>
</tbody>
</table>

2. Sources of Sponsorship: Outside support for research included Federal Government agencies and prime contractors to the Federal Government:

(1) Advanced Research Projects Agency (ARPA)
(1) Air Force Missile Development Center (AFMDC)
(7) Air Force Office of Scientific Research (AFOSR)
(6) Air Force Weapons Laboratory (AFWL)
(3) Atomic Energy Commission (AEC)
(4) National Aeronautics and Space Administration (NASA)
(12) National Institutes of Health (NIH)
(1) National Park Service (NPS)
(25) National Science Foundation (NSF)
(1) Naval Ordnance Laboratory (NOL)
(1) Office of Naval Research (ONR)
(4) Public Health Service (PHS)
(22) Sandia Corporation (SC)
(1) Rocky Mountain Forest and Experiment Station (RMFES)
(1) U.S. Department of Interior, Indian Affairs (USIA)
(1) U.S. Weather Bureau (USWB)

State of New Mexico Agencies:

(2) New Mexico State Highway Department (NMSHD)
(1) New Mexico State Planning Department (NMSPD)

Philanthropic Organizations:

(1) Resources for the Future (RFF)
(1) Rockefeller Foundation (RF)

Private Organizations:

(1) American Chemical Society (ACS)
(1) Jicarilla-Apache Tribe (JAT)
(1) National Heart Association (NHA)
(1) Smith, Klein and French (SKF)
(1) University of California (UC)
The dollar breakdown of research support by source was as follows:

<table>
<thead>
<tr>
<th>Source</th>
<th>Amount</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal Government and Prime Contractors (91)</td>
<td>$2,099,750.94</td>
<td>88.3</td>
</tr>
<tr>
<td>State of New Mexico Agencies (3)</td>
<td>30,992.78</td>
<td>1.3</td>
</tr>
<tr>
<td>Philanthropic Organizations (2)</td>
<td>28,354.77</td>
<td>1.2</td>
</tr>
<tr>
<td>Private Organizations (5)</td>
<td>9,605.67</td>
<td>0.4</td>
</tr>
<tr>
<td>University of New Mexico</td>
<td>208,892.00</td>
<td>8.8</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$2,377,596.16</strong></td>
<td><strong>100.0</strong></td>
</tr>
</tbody>
</table>

ACTIVITIES RELATED TO RESEARCH

**Patents**

The University has contracts with the Research Corporation and Battelle Development Corporation for review of invention disclosures and possible filing of patent applications. No invention disclosures have been made during the year. The University Policy Committee, in April 1964, provided for a subcommittee of the Contract Research and Patent Committee to administer the University's Patent Policy, beginning in FY 1965.

**Sandia Corporation Equipment Aid Program**

The equipment aid program provides for the indefinite loan of scientific equipment by Sandia Corporation to the University for use by the University in educational and research programs. Additional equipment was secured during the year, and the inventory of equipment on loan as of February 1, 1964, amounted to 516 pieces (mostly electronic gear) with an acquisition cost of $389,242 (after return of the CRC 102A Digital Computer). This program has great importance to the University in the implementation of educational and research programs.

Consideration is being given to a proposal to transfer this program from the Director of Research Services to Professor Charles T. Grace, who is Director of the Sandia Corporation Technical Development and Educational Aids Programs. Professor Grace has direct contacts with Mr. Arthur Hill, Sandia Technical Development Program Counselor; and transfer of responsibility for this program to Professor Grace would expedite the program.
Reprints of Scholarly Publications

The University has a policy for purchasing reprint copies - not to exceed $75 in cost - of technical, scientific, and scholarly publications by its faculty. In FY 1964, through the Director of Research Services, the University purchased more than 4,995 copies of 42 reprints of publications by 27 of its faculty at a cost of $1,302.45. The costs for FY 1964 are somewhat more than for FY 1963. More and more professional, scientific, and technical organizations are adopting a policy of making page charges for publication of research articles. The University policy for purchasing reprints needs to be updated to include the payment of page charges for publications by its faculty.

Security

The University has a Facility Security Clearance for receipt and storage of Department of Defense classified information in the Research Center, and the Director of Research Services acts as Security Coordinator for the University. At the close of FY 1964, the University had five classified (SECRET) research contracts, and 191 faculty and students holding security clearances permitting access to classified information at confidential and secret levels.


Air Force Mathematical and Scientific Aides Program

The University has a contract with Air Force Special Weapons Center, Kirtland Air Force Base, for "Mathematical and Scientific Aide Assistance to the Research Directorate of the Air Force Weapons Laboratory." The first contract was for the period December 15, 1960, to June 30, 1961; and the amount was $13,380. The current contract is for the period October 1, 1963, to September 30, 1964; and the amount is $162,722. The total of
contracts for the period December 15, 1960, through September 30, 1964, amounts to $377,037.80. Because this program is off campus, the indirect costs are 15 percent of salaries and wages ($21,224.61 for current contract).

The purpose of this program is to furnish University students to the Air Force Weapons Laboratory to assist in scientific and engineering research and development projects, and to assist in the design and construction of scientific research equipment. Students majoring in physics, chemistry, mathematics, biology, business administration, architecture, electrical engineering, mechanical engineering, and civil engineering are currently employed.

During the academic year, an average of 63 students per month were employed on a part-time basis amounting to an average of 83 hours per month, and earning an average of $155.48 per month, including summer recess. Some students with less than full-time course schedules were allowed to work more hours per week. On June 30, 1964, there were 83 students employed on a full-time basis for the summer vacation months. The policy for hourly wages is $1.50 per hour for sophomores, $1.75 per hour for juniors, and $2.00 per hour for seniors. There are no specific provisions for higher pay for graduate students, but some graduate students have been employed.

This is an important program for the University. It permits students with high scholastic averages and better-than-usual talents to earn money to support themselves in the University and become self-sufficient, to have an opportunity to work with competent engineers and scientists on high-level research and development projects, to participate in research and development experiments, and to keep fully informed on new developments and research in engineering and scientific areas of current interest to the Air Force.
Analytical Support to Air Force Weapons Laboratory Directorate

The objective of this project was for research on the design and development of optical equipment, and devising mathematical methods for the precise spatial location of reentry space vehicles. The research was conducted primarily by Mr. James D. Wray, research associate meteoriticist, in collaboration with personnel of the Air Force Weapons Laboratory. The project was initially unclassified but is now classified TOP SECRET by the Air Force Systems Command. The contract will terminate 15 September 1965, at which time Mr. Wray will go to Northwestern University to do his doctoral dissertation in the same subject.

Governor Jack M. Campbell's Scientific Advisory Committee

The Governor appointed the Scientific Advisory Committee in August 1963 and gave it the task of preparing a proposal to the National Aeronautics and Space Administration for the location of a Space Port - Apollo, Gemini, and other space-vehicle landings - at the Holloman Air Force Base-White Sands Missile Range. The University members of the advisory committee are Dr. Victor H. Regener, Chairman of the Committee, Dr. Joseph S. Lambert, and Harold L. Walker. The total membership is ten and is composed of personnel from New Mexico State University, New Mexico Institute of Mining and Technology, Texas Western College of the University of Texas, and Los Alamos Scientific Laboratory, in addition to the University of New Mexico. The proposal was presented to NASA personnel in an oral presentation, in Washington, in October 1963. Although the proposal and presentation were well received by NASA, a decision on the location of a Space Port had not been reached by the end of FY 1964.
IN MEMORIAM

Lastly, I wish to pay my respects to the late Dr. William J. Parish, Dean of the Graduate School, deceased May 4, 1964; mentor, counselor, leader, organizer, critic, and friend; who in my humble opinion made a great contribution to organize, upgrade, and expand the important work of the Graduate School during his two-year tenure as Dean. The University has lost an outstanding scholar.

THE AIR FORCE SHOCK TUBE FACILITY
Eugene Zwoyer, Director

The University of New Mexico completed the third year of operation of the Air Force Shock Tube Facility on April 10, 1964. The research mission of the facility remained the same: To conduct research in the field of protective construction. This broad research effort embraces the areas of structural dynamics, soil dynamics, soil-structure interaction, and gas dynamics. The present two-year contract ending March 1, 1965, has an estimated budget of $1,367,947.

At the end of June 1964, the facility employed 52 full-time and 12 part-time personnel. Approximately one-third of the staff are engineers and scientists; one-half are technicians, mechanics, and laboratory assistants; and one-sixth are administrators, secretaries, and supply clerks.

The physical plant at the facility which is owned by the Air Force and located in Area Y on Sandia Base was increased during the past year by adding 2,000 square feet for administrative space, 900 square feet for a model shop, 1,900 square feet for a soils preparation laboratory, 2,500 square feet for a warehouse, and 1,300 square feet for a high capability shock tube facility. These additions accounted for approximately
80 percent increase in floor space.

Several items of equipment were acquired during the year. These included four new shock tubes, a 300,000-pound-capacity universal testing machine, a 15,000-pound-capacity universal testing machine, a 50,000-pound-capacity ram loader, a 600,000-pound-capacity static-test frame, and a 600,000-pound-capacity dynamic-test frame.

Appointments to the professional staff during the year included Mr. Richard G. Vaughan as Research Associate Engineer on September 19, 1963, and Dr. George Triandafilidis as Research Engineer and Associate Professor of Civil Engineering on June 5, 1964. Dr. Triandafilidis supervises the soil dynamics research effort at the facility, replacing Mr. Robert McNeill who will terminate in the fall of 1964 to return to industry. Dr. B. A. Donnellan terminated on June 11, 1964, to accept a position with a consulting engineering firm.

Significant professional activities by the staff during the year included attendance and participation in the annual meeting of the American Society of Civil Engineers, the annual meeting of the American Concrete Institute, the Conference of the Engineering Mechanics Division of the American Society of Civil Engineers, and the Department of Defense Soil-Structure Interaction Symposium.

Appointments to national committees during the year included: Eugene Zwoyer to the chairmanship of the American Society of Civil Engineers Committee on Adverse Weather Conditions, and to the American Society of Civil Engineers Committee on Structural Dynamics; and Robert Crist to the American Concrete Institute Committee on Shear.
The MANIAC I computer underwent extensive modification during academic 1963-64. A magnetic core memory of 4,000 words was obtained from General Services Administration. This core memory was part of the UNIVAC 1103A salvaged at Holloman Air Force Base. Modification of the core memory to adapt it to MANIAC I was begun immediately. Further utilization of the computer will be for Electrical Engineering classwork in logical design. The core memory represents a net value of $120,000.

Efforts to obtain electronics to implement courses in logical design were also successful. The IBM Corporation donated a magnetic core memory of 4,000 words to the University. The Air Force Weapons Laboratory provided a solid-state data-acquisition system. These electronic components will provide the hardware experience necessary to train engineers in logical design.

Assistance was provided in writing programs for University faculty engaged in research. Programs were written for work in the following departments and college:

- Department of Chemical Engineering
- Department of Civil Engineering
- Department of Economics
- Department of Mechanical Engineering
- Department of Electrical Engineering
- College of Education

The total man-hours expended in providing this assistance was 1,792 hours. Programs were written by the programming staff for the MANIAC, the IBM 1620, the Air Force Weapons Laboratory's CDC 1604, and the Western Data Processing Center's IBM 7094. The University used the IBM 7094 for five programs.
The Research Computer Center was extensively modified during FY 1963-64. Nine offices and two machine rooms were constructed in formerly unused laboratory space. The rooms on one floor are utilized to house the new IBM 1620 computer and associated equipment, and for offices. The IBM 1620 was delivered December 18, 1963, and has since been utilized extensively for University computer needs. The computer, card punches (two IBM 026), sorter (IBM 083), and printer (IBM 407) were acquired through assistance from the IBM Corporation and the National Science Foundation. The IBM Corporation made a 60-percent educational allowance on all the machines, the NSF provided $45,000 in a facilities grant, and the University provided $45,000. Utilization of the IBM is shown in Table 1.

TABLE 1

<table>
<thead>
<tr>
<th>Utilization of IBM 1620</th>
</tr>
</thead>
<tbody>
<tr>
<td>FROM DATE OF ACQUISITION, DECEMBER 18, 1963, TO JUNE 30, 1964</td>
</tr>
<tr>
<td>Number of Student Programs Processed</td>
</tr>
<tr>
<td>Hours of Computer Use, Students</td>
</tr>
<tr>
<td>Hours of Computer Use, Sponsored Research</td>
</tr>
<tr>
<td>Number of Non-Sponsored Research Programs Processed</td>
</tr>
<tr>
<td>Hours of Computer Use, Non-Sponsored Research</td>
</tr>
</tbody>
</table>

The acquisition of the IBM 1620 obviated the need for the CRC 102A computer which had been on indefinite loan to the University by the Sandia Corporation. The CRC 102A was returned to Sandia Corporation during June 1964. Utilization of the CRC 102A is shown in Table 2.

TABLE 2

<table>
<thead>
<tr>
<th>Utilization of CRC 102A</th>
</tr>
</thead>
<tbody>
<tr>
<td>DURING FY 1963-64</td>
</tr>
<tr>
<td>Hours of Computer Use, Sponsored Research</td>
</tr>
<tr>
<td>Hours of Computer Use, Classwork</td>
</tr>
</tbody>
</table>
Programming classes in cooperation with the Electrical Engineering Department (EE 161L) were taught during summer, fall, and spring semesters. Student enrollment was 112 for the one-hour credit course. The courses were taught by Computer Center personnel. In addition, Fortran lectures for the faculty were offered during February 1964. A total of 80 attended these lectures.

A seminar in logical design (EE 172) was taught utilizing MANIAC logic. This seminar was an initial effort to use MANIAC for engineering classwork. The seminar (three credit hours) was taught to 15 senior students by Computer Center personnel.

The work accomplished on sponsored research contracts and grants resulted in charges as follows:

\[
\begin{align*}
\$ 8,291.54 & \quad \text{Programming (1,792 hours)} \\
4,647.89 & \quad \text{Use of Machines (108.89 hours)} \\
\hline
12,939.43 & \quad \text{Total}
\end{align*}
\]
## APPENDIX A

### REIMBURSEMENT TO THE UNIVERSITY FOR RESEARCH ACCOMPLI

<table>
<thead>
<tr>
<th>ANTHROPOLOGY</th>
<th>SPONSOR</th>
<th>PRINCIPAL INVESTIGATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecology &amp; Social Structure of Matengo</td>
<td>NSF</td>
<td>Basehart</td>
</tr>
<tr>
<td>Anthro-Psychoanalytic Techniques</td>
<td>NIH</td>
<td>Basehart</td>
</tr>
<tr>
<td>Ancestral Modern Pueblos</td>
<td>NPS</td>
<td>Ellis</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BIOLOGY</th>
<th>SPONSOR</th>
<th>PRINCIPAL INVESTIGATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Desert &amp; Semi-Arid Plants</td>
<td>NSF</td>
<td>Dittmer</td>
</tr>
<tr>
<td>Plant Changes in New Mexico</td>
<td>RMFES</td>
<td>Potter</td>
</tr>
<tr>
<td>Hibernation &amp; Aestivation</td>
<td>NSF</td>
<td>Riedesel</td>
</tr>
<tr>
<td>Research on Pollen Transport</td>
<td>NSF</td>
<td>Potter</td>
</tr>
<tr>
<td>Pseudoscorpions of Florida &amp; West Indies</td>
<td>NSF</td>
<td>Hoff</td>
</tr>
<tr>
<td>Floristic &amp; Systematic Botany Research</td>
<td>NSF</td>
<td>Potter</td>
</tr>
<tr>
<td>Biological Distribution of Radioisotopes</td>
<td>AEC</td>
<td>Riedesel</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CHEMICAL ENGINEERING</th>
<th>SPONSOR</th>
<th>PRINCIPAL INVESTIGATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irradiated Elastomers</td>
<td>SC</td>
<td>Traeger</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CHEMISTRY</th>
<th>SPONSOR</th>
<th>PRINCIPAL INVESTIGATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coordinated Rare Earth Ions</td>
<td>NSF</td>
<td>Crosby</td>
</tr>
<tr>
<td>Chemistry of Boron Hydrides</td>
<td>NSF</td>
<td>Yamauchi</td>
</tr>
<tr>
<td>Pyrazidines as Antitumor Agents</td>
<td>PHS</td>
<td>Castle</td>
</tr>
</tbody>
</table>
## Appendix A

**Reimbursement to the University for Research Accomplished in FY 1963-64**

<table>
<thead>
<tr>
<th>Category</th>
<th>Sponsor</th>
<th>Principal Investigator</th>
<th>Salaries</th>
<th>Expenses</th>
<th>Indirect Costs</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Anthropology</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ecology &amp; Social Structure of Matengo</td>
<td>NSF</td>
<td>Basehart</td>
<td>$ 3,734.22</td>
<td>$ 2,361.60</td>
<td>$ 815.85</td>
<td>$ 6,911.67</td>
</tr>
<tr>
<td>Anthropo-Psychoanalytic Techniques</td>
<td>NIH</td>
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**APPENDIX A**

**Reimbursement to the University for Research Accomplished in FY 1963-64**

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### Carrier-Free Iodine-131 Azabenzo(a)pyrenes Liquid Scintillators UNM-Sandia Colloquium

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### Binding of Cations by Proteins & Peptides Luminescent Materials Carrier-Free Radioactive Tracers Intramolecular Energy Transfer Nitrogen Heterocycles as Explosive Agents Experimental Tuberculosis Radioactivity Loss of Iodine-131 Molten Alkali Metaphosphates Pre-doctoral Research

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### APPENDIX B

#### SUMMARY OF RESEARCH FUNDS REIMBURSED TO THE UNIVERSITY IN FY 1963-64

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<td>Nuclear Engineering</td>
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<td>325.94</td>
<td>.570.77</td>
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<td>Physics</td>
<td>97,271.15</td>
<td>228,551.14</td>
<td>31,248.36</td>
<td>357,070.65</td>
<td>13</td>
<td>16.5</td>
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<td>Psychology</td>
<td>15,720.09</td>
<td>2,165.92</td>
<td>4,950.17</td>
<td>22,836.18</td>
<td>5</td>
<td>1.1</td>
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<tr>
<td>Research Services</td>
<td>460,563.98</td>
<td>204,706.70</td>
<td>78,839.03</td>
<td>744,109.71</td>
<td>5</td>
<td>34.3</td>
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<tr>
<td>Sociology</td>
<td>17,969.27</td>
<td>2,012.48</td>
<td>4,172.76</td>
<td>24,154.51</td>
<td>1</td>
<td>1.1</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$1,154,246.63</strong></td>
<td><strong>$733,873.78</strong></td>
<td><strong>$280,583.75</strong></td>
<td><strong>$2,168,704.16</strong></td>
<td><strong>97</strong></td>
<td><strong>100.0</strong></td>
</tr>
</tbody>
</table>
APPENDIX C
REIMBURSEMENT TO THE UNIVERSITY FROM
RESEARCH CONTRACTS AND GRANTS

FISCAL YEARS

REIMBURSEMENT IN THOUSANDS OF DOLLARS

'57  '58  '59  '60  '61  '62  '63  '64

2000
1000
900
800
700
600
500
400
300
200
100
50

TOTAL
SALARIES AND WAGES
EXPENSES
INDIRECT COSTS
The first issue of the New Mexico Historical Review appeared under the auspices of the Historical Society of New Mexico in January, 1926, with Lansing B. Bloom and Paul A. F. Walter, Sr. as editors. After Mr. Bloom's death, early in 1946, Frank D. Reeve became editor and served until his retirement on June 30, 1964.

For more than thirty years the New Mexico Historical Review was published jointly by the Historical Society of New Mexico and the University of New Mexico, with assistance from the Museum of New Mexico at Santa Fe, which had charge of records and mailing. Under an agreement with the Historical Society, and the Museum, the University became sole owner and publisher of the Review on July 1, 1963. The Department of History is responsible for the Review, acting through its agent, a Board of Editors selected from the staff of the Department, the chairman being the member of the History Department responsible for the history of New Mexico. From July, 1963, to July, 1964, the Board of Editors was: Frank D. Reeve, Chairman; Donald C. Cutter; France V. Scholes; Gerald D. Nash; Eleanor B. Adams. Dr. Scholes resigned in July, 1964, and the membership of the present board is: Donald C. Cutter, Chairman; Eleanor B.
Adams, ex officio; Edwin Lieuwen; Gerald D. Nash; Frank D. Reeve. The Board acts in an advisory capacity in selecting the editor, working out policy, and making budgetary recommendations for the Review. The University of New Mexico Press, Roland F. Dickey, Director, is responsible for the business affairs, printing, and mailing of the Review. In accordance with the agreement with the Historical Society, membership dues are collected along with subscriptions to the Review, and the Society is allowed two pages per issue for its announcements and other business. The Editor has full editorial responsibility and power in implementing the general policy of the Board of Editors and determining the content, as well as administering the editorial budget and selecting and directing whatever assistants may be authorized in it.

Eleanor B. Adams, Research Associate in History, became Editor on July 1, 1964. Dr. Reeve, however, was responsible for the content and editing of the July, 1964, issue, in addition to leaving a supply of manuscripts and book reviews for the use of his successor. With the exception of the tributes to William J. Parish and Erna Fergusson, which were solicited by Miss Adams, the Historical Society's "News Notes," and the annual index, all the material in the October, 1964, issue is owed to Dr. Reeve's activities as editor, and a number of items remain for future publication.
Beginning with Volume 40, No. 1, January, 1965, the
New Mexico Historical Review will appear in a new format
designed by Mr. Dickey with the assistance of Miss Adams.
Miss Adams and Mr. Dickey are also reviewing and reorganizing
the files and system of exchanges with other scholarly publica-
tions, which present special problems at present because
of the recent change in ownership of the Review.

Editorial policy will follow the established tradition
of the New Mexico Historical Review as a quarterly journal
for the publication of scholarly papers of New Mexican and
regional interest. The region is understood to include
the area of the Spanish Colonial Viceroyalty of New Spain
north from Mexico City, since the earlier history of New
Mexico is an integral part of the history of the expansion
of the northern frontier of New Spain. The Review has always
welcomed and will continue to welcome papers from experts
in other fields when they are slanted to the historical
point of view; anthropology, archaeology, art, economics,
ethnology, geography, law, music, and sociology come to
mind, but do not necessarily exhaust the possibilities in
this regard. Memoirs, diaries, letters, and the like will
also receive serious consideration.
The Report of the Southwestern Journal of Anthropology
July 1, 1963--June 30, 1964
Harry Basehart and Stanley Newman, Editors

Four issues of the Southwestern Journal of Anthropology were published during the fiscal period: Summer, Autumn, and Winter 1963 (Vol. 19, Nos. 2, 3, and 4), and Spring, 1964 (Vol. 20, No. 1). The number of pages in the four issues totalled 409, as compared with 408 pages printed in 1962-1963. A smaller number of manuscripts were accepted for publication than in the previous year, when 28 were printed; this year, 26 manuscripts were published.

From the editorial viewpoint, the most significant development in this period was the exceptionally large increase in the number of manuscripts submitted to the Editors. In 1963-1964, 119 articles were reviewed, whereas 71 were received during 1962-1963. This increase of almost 60% is without precedent in Journal history; the tendency has been for the number of articles contributed to range within rather narrow limits. Comparison with the reporting periods for the past five years, for example, reveals a range from 68 to 79 contributions. The processing and review of these additional manuscripts, although increasing the work-load of the Editors considerably, has been accomplished without sacrificing the prompt evaluation of manuscripts which Journal contributors have come to expect. The greater volume of contributions has made it possible for the Editors to develop a small back-log of articles, which in turn contributes to
the maintenance of printing schedules and reduces the pressures involved in the evaluation of manuscripts.

With the Spring, 1964, issue, the Journal began its 20th year of publication. Thus far there has been no cumulative index to the rich store of anthropological data which has appeared in the Journal, and scholars have had to depend upon the annual indexes in each volume. The Editors believe that there is pressing need for a cumulative index, and propose publication of such a volume early in 1965. The index will include subject matter and author citations for Volumes 1 through 20. Processing and printing costs prohibit free distribution to subscribers; consequently the index will be sold separately.

The Journal policy of promoting the interests of "general anthropology" continues to be reflected in the character of the articles published during the year. Of the 26 papers printed, the majority (22) are contributions to the area of cultural anthropology; the more specialized fields of archaeology and physical anthropology are also represented. The heavy emphasis on cultural anthropology represents both the current interests of anthropologists and the availability of publication outlets which disseminate highly technical papers in the sub-disciplines of the field. A more accurate indication of the extent to which the commitment to "general anthropology" has been maintained is provided by a more refined classification of the articles which fall into the area of cultural anthropology.

Published articles represent the following sub-fields: method and theory, social organization, primitive religion, primitive technology,
demography, personality and culture, and ethnohistory. Geographical representation continues to be broad: papers dealt with cultures of Africa, India, Burma, Japan, the West Indies, Mexico, Peru, Guatemala, and North American Indians (Southwest, Plateau and Eskimo).

Subscriptions continue to increase at the same rate as the previous year. In June 1964 there were 1667 Journal subscribers, as compared to 1521 in June, 1963. It is gratifying to note that approximately one-fifth of the subscriptions are from foreign countries; this represents a substantial increase compared with the preceding year, and attests the international recognition accorded the Journal. The maximum printing was increased to 1,900 copies with the Spring, 1964, issue, to provide for the rising subscription demand; in the previous spring the maximum printing was 1,650 copies. The income from subscriptions and sales of back numbers offset printing charges by nearly 99%, whereas the relationship between these variables during the past year was approximately 93%.

Authorizations to reprint Journal articles were granted to the following:

Rufus T. Logan, mimeographed material for teaching purposes: 1 article
Sheilagh Brooks, *Yearbook of Physical Anthropology*: 1 article
Robert L. Fulton, *Death and Identity*: 1 article
G. H. Willson, *Wyoming Anthropologist*: 1 article
Lowell D. Holmes, *Introducing Anthropology*: 1 article
F. R. Lima, *Seminario de Integracion Social* (Guatemala): 1 article (reprinting in Spanish transcript)
Harry Hoijer, *An Introduction to Anthropology*, quotations from
1 article
Joshua A. Fishman, untitled book on sociology of language: 2 articles

Fred W. Voget, untitled book of readings on social stratification: 1 article

William A. Lessa, Reader in Comparative Religion: 2 articles

Robert F. Smith, Background to Revolution: Origins and Development of Modern Cuba: 1 article

Eldon L. Modisette, mimeographed material for teaching purposes, 2 articles

Dr. Basehart returned from sabbatical leave devoted to research among the Matengo tribe of southwestern Tanganyika in February 1964, and assumed major editorial responsibilities for the remainder of the report period.
Completing its thirty-third fiscal year of operation in 1963-64, the University of New Mexico Press publishes books, scholarly monographs, and a magazine, New Mexico Quarterly. It handles the subscriptions and records for New Mexico Historical Review and Southwest Journal of Anthropology.

I. Significant developments during the academic year 1963-64:

1. Faculty Publications Committee membership:

   Ernest W. Baughman, Chm. (English)
   Roland Dickey (Press)*
   Howard Dittmer (Biology)
   Jovan Djuric (Elec. Engr.)
   John Durrie (Secy. of the Univ.)*
   Wolfgang Elston (Geology)
   Charles B. Judah (Government)
   R. R. MacCurdy, Jr. (Mod. Lang.)
2. The Committee held meetings on Nov. 11, Dec. 18, and Feb. 12. At these meetings the Committee considered 13 manuscripts, of which 3 were accepted for publication.

3. The Press published 11 books, of which 8 were new titles and 3 were new editions. Three of the books were bound in paper. *Coronado Knight of Pueblos and Plains*, by Herbert E. Bolton, was reissued simultaneously in cloth and paper editions. Two of the books, *Raymond Jonson*, and *Kenneth Adams*, were published in connection with exhibitions held by the University Art Gallery. Four of the books were published with the assistance of the Ford Foundation.

4. Three issues of *New Mexico Quarterly* were published, totaling 384 pages.

5. The Annual Research Lecture "Intelligence Tests and the Personal World," by Ralph D. Norman, was released as a separate offprint from the *Quarterly*.

6. For *New Mexico Quarterly*, a total of 3,089 manuscripts were examined, including 2,226 poems, 731 works of fiction, and 132 articles. Of these, 34 were accepted for publication.
7. Title and Inventory statistics:

<table>
<thead>
<tr>
<th></th>
<th>Titles in Print</th>
<th>Copies in Inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNM Press books</td>
<td>106</td>
<td>109,144 as of June '64</td>
</tr>
<tr>
<td>UNM Publications</td>
<td>57</td>
<td>20,218 as of Apr. '64</td>
</tr>
<tr>
<td>UNM Bulletins</td>
<td>59</td>
<td>6,337</td>
</tr>
<tr>
<td>Inter-Americana Series</td>
<td>5</td>
<td>54</td>
</tr>
</tbody>
</table>

8. Income from sales:

a. Sales totals:

- University Press Books: $65,460.06
- Publications & Bulletins: 1,306.88
- New Mexico Quarterly: 1,069.28

Total: $67,836.22

b. Press book sales. The year's sales of $65,460.06 represented a total of 24,944 copies of books sold, as follows:

<table>
<thead>
<tr>
<th>Month</th>
<th>Copies</th>
<th>Sales</th>
</tr>
</thead>
<tbody>
<tr>
<td>July</td>
<td>1,805</td>
<td>$4,301.70</td>
</tr>
<tr>
<td>Aug.</td>
<td>1,574</td>
<td>4,414.25</td>
</tr>
<tr>
<td>Sep.</td>
<td>912</td>
<td>3,050.88</td>
</tr>
<tr>
<td>Oct.</td>
<td>1,272</td>
<td>4,350.45</td>
</tr>
<tr>
<td>Nov.</td>
<td>1,401</td>
<td>4,086.81</td>
</tr>
<tr>
<td>Dec.</td>
<td>3,140</td>
<td>11,021.90</td>
</tr>
</tbody>
</table>

Average: 2,078 copies per month $5,455.00 per month

The above figures represent an increase of $5,502.46 in book sales and 1,256 in number of copies over the 1962-63 fiscal year. The monthly average rose from 1,974 copies in the previous year to 2,078 in the present year. The monthly sales average rose from $4,996.47 to $5,455.
9. An analysis of 1963-64 book sales showed that, by number of copies, 67% of sales were made to retail bookdealers, 19% to wholesalers, .05% to individuals, and .048% to libraries. By regions of the United States, 41% of sales were in the Southwest, 28% in the Northwest, 13% on the East Coast, 9% in the Midwest, 8% on the Pacific Coast, and 2% in the South.

10. In addition to published materials, work was in process on 12 books, 3 publications, and materials for New Mexico Quarterly.

11. As part of the celebration of the 75th Anniversary of the University, 28 invitations, programs and other printed pieces were planned and printing supervised by the Press for use by the Anniversary Committee. The Press also participated in the planning of the 75th Anniversary issue of the Alumnus.

12. By agreement between the University, the Historical Society of New Mexico and the Museum of New Mexico, the latter institution withdrew from its previous role of publication of New Mexico Historical Review. Under the new agreement, the University continued to provide an editor for the Review, and the Press took over the subscriptions, financial records and the supervision of the manufacture of the magazine.
Hundreds of hours of staff time were utilized for the checking of records, correspondence with subscribers and the setting up of a complete new system of records. Four issues of the *Historical Review* were published under the new arrangement. Dr. Frank D. Reeve of the UNM History Department, who has edited the magazine for many years, served as editor until his retirement in June 1964. A new editor is to be appointed, and a new format will be designed for the magazine to begin with the January 1965 volume.

13. The Press continued to handle subscription records and finances for the *Southwest Journal of Anthropology*, which is edited by the UNM Department of Anthropology.

14. Plans were drawn up for the completion of the interior of new quarters in the Journalism Building for the Press and the storage and shipping of Press books by the Mailing Department, and it was anticipated that the move would be made during 1964.
II. Staff Assignments

Roland Dickey, Director of the Press, General Editor of UNM Publications Series, Editor of New Mexico Quarterly
Leonard A. Prehn, Production Manager
Carol Kurman, Promotion Manager
Margaret Weinrod, Journals Subscription Manager
Mary E. Adams, Assistant Editor
Richard C. Angell, Assistant Editor
Winifred W. Gregory, Assistant Editor (1/2 time)
William Givens, Record Clerk
Marilyn Cheetham, Secretary

III. Books and other materials published:

The Triple Soul: Browning's Theory of Knowledge, by Norton B. Crowell. 6 x 9 in., 250 pp. $5.50 (Oct. 25, 1963)

Sun Father's Way: The Kiva Murals of Kuaua, by Bertha P. Dutton. 8 1/2 x 11 in., 253 pp., 3 color plates, 111 photographs, 26 drawings. $15.00 (Nov. 22, 1963)

Tombstone's Epitaph, by Douglas D. Martin. 302 pp. 6 x 9 in. Illustrated. $5.00 (November 19, 1963)
Redesigned for offset printing from 1951 edition.

Star over Adobe, by Dorothy L. Pillsbury. 208 pp. 5 1/2 x 8 1/4 in. Illustrated by Richard Kurman. $4.00 (Dec. 6, 1963)

D. H. Lawrence, Artist & Rebel: A Study of Lawrence's Fiction, by E. W. Tedlock, Jr. 252 pp. 6 x 9 1/4 in. $5.00. (Dec. 18, 1963)

Raymond Jonson, A Retrospective Exhibition. ed. Van Deren Coke. 32 pp. 7 1/2 x 10 in. $1.25 (paper) (Mar. 30, 1964)

Kenneth Adams, A Retrospective Exhibition, by Van Deren Coke. 32 pp. 7 1/2 x 10 in. $1.25 (paper) (Mar. 30, 1964)

Keith & Costa Rica, by Watt Stewart. 224 pp. 6 x 9 in $5.00. Photographs (May 19, 1964)
The Physical Philosophy of Aristotle, by Melbourne G. Evans. 107 pp. 5 3/8 x 8 in. $2.00 (paper) (June 23, 1964)

Coronado, Knight of Pueblos and Plains, by Herbert E. Bolton. (Adapted from 1949 edition. Cloth cover,) 512 pp. 6 x 9 in. $5.00. 3 maps. (June 25, 1964)

Coronado, Knight of Pueblos and Plains, by Herbert E. Bolton (Adapted from 1949 edition. Paper cover.) 512 pp. 5 3/8 x 8 in. $2.50. 3 maps. (June 25, 1964)

New Mexico Quarterly:


Winter 1963-64. Vol. XXXIII, No. 4. 128 pp. (May 28, 1964)

IV. Outside professional activities of staff members

1. Roland Dickey attended the national meeting of the Association of American University Presses at the University of Chicago, May 31--June 3, 1964. Following the meeting he visited the University of Wisconsin Press in Madison and the University of Minnesota Press in Minneapolis. In the Chicago area he toured the manufacturing plants of the R. R. Donnelly Co. and the Warren Paper Co.
V. Ford Foundation grant

Work was continued in the preparation of mss. to be published under the Ford Foundation's program to stimulate scholarly publishing in the humanities and social sciences. Four books were published under the terms of the grant during 1963-64: *The Triple Soul: Browning's Theory of Knowledge*, by Norton B. Crowell; *D. H. Lawrence, Artist & Rebel*, by E. W. Tedlock, Jr.; *Keith and Costa Rica*, by Watt Stewart; *The Physical Philosophy of Aristotle*, by Melbourne G. Evans.

VI. Awards

Two Press books, *Navaho Trading Days*, by Elizabeth C. Hegemann, and *Sun Father's Way*, by Bertha P. Dutton, were chosen for Western Books 1964, an annual selection and exhibition made by the Rounce and Coffin Club of California on the basis of graphic excellence.

VII. Library Gifts

During the year, the Press presented to Zimmerman Library 186 books, 24 pamphlets, 472 periodicals, and 156 newspapers. The materials were received from publishers and other agencies, a substantial part for review and exchange with *New Mexico Quarterly*. In addition, the Library received approximately
70 periodical subscriptions in exchange for New Mexico Historical Review. The Library continues to receive monographs from other institutions in exchange for the UNM Publications Series.
FIFTEENTH ANNUAL REPORT
of the
OFFICE OF ADMISSIONS AND RECORDS

1963 - 64

for the
1963 Summer Session
Semesters I and II, 1963-64

with
Comparative Data
1954-55 through 1963-64

October 1, 1964
THE REGENTS

of

THE UNIVERSITY OF NEW MEXICO

The Honorable Jack M. Campbell,
Governor of New Mexico, ex officio . . . . . . . . . Santa Fe

Leonard J. DeLayo, State Superintendent of
Public Instruction, ex officio . . . . . . . . . . . Santa Fe

Howard C. Bratton, President . . . . . . . . . . . Albuquerque

Bryan G. Johnson, Vice President . . . . . . . . . . . Albuquerque

Mrs. Frank A. Mapel, Secretary-Treasurer . . . . . . . Albuquerque

Thomas R. Roberts . . . . . . . . . . . . . . . Los Alamos

Lawrence H. Wilkinson . . . . . . . . . . . . . . Albuquerque
October 1, 1964

President Tom L. Popejoy
The University of New Mexico

This is to introduce the fifteenth annual report of the Office of Admissions and Records. The report includes admission and enrollment statistics for the 1963 Summer Session and the Fall and Spring semesters of the 1963-64 school year together with some comparative analyses for the ten-year period from 1954-55 through 1963-64.

Hopefully, this is the last report of the Office of Admissions and Records to be prepared entirely on the basis of manually produced statistics. Conversion in the fall of 1964 to Data Processing methods ultimately should provide statistical materials in greater depth than it has been possible to provide to the present time.

We would like again to thank you and other administrative officers and faculty members for the cooperation and aid extended to us during the last fifteen years and particularly during the year just completed which has been filled to overflowing with hectic preparations for the conversion to Data Processing methods.

Respectfully submitted,

J. C. MacGregor
Director of Admissions and Registrar
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CHART OF THE GENERAL FUNCTIONS
OF THE OFFICE OF ADMISSIONS AND RECORDS

Director of Admissions
and Registrar

Records and Registration
- Permanent Records
  and Student Files
- Transcripts of
  Record
- Grade Reports
- Registration
- Compilation of Class
  Schedules, Assignment
  of Classrooms, and
  Preparation of Final
  Examination Schedule
- Graduation
- Reporting for
  Selective Service

Admissions
- Determination of Ad-
  mission Status of All
  Undergraduate Students
- Student Applicant
  and Correspondence
  Control Files
- Notification of
  Admission or Refusal
  to all Students
- Evaluation of
  Transcripts
- Evaluation of
  Foreign Credentials
- Military Credits
- Catalog Library

Public Relations,
Personal Contacts,
and Mail
- General University
  Information
- Enrollment, Admission,
  and Scholastic Sta-
  tistics and Reports
- Certification of
  Athletic Eligibility
- Preparation and Dis-
  tribution of General
  University Catalog
- Administration of
  Residence Regulations
- Certifying Officer for
  Interstate Medical
  Training

Public Relations,
Personal Contacts,
and Mail
- General University
  Information
- Enrollment, Admission,
  and Scholastic Sta-
  tistics and Reports
- Certification of
  Athletic Eligibility
- Preparation and Dis-
  tribution of General
  University Catalog
- Administration of
  Residence Regulations
- Certifying Officer for
  Interstate Medical
  Training
INTRODUCTION

The Office of Admissions and Records operates as a unit of the Division of Student Affairs under the supervision of the Dean of Students. The chart on the preceding page outlines the main functions of the office.

Preparation for Conversion to Data Processing Methods

During the 1963-64 school year and the 1964 summer, supervisory personnel in the Office of Admissions and Records were much involved in planning and preparations for conversion in the 1964 fall to Data Processing methods. Many hours were spent during this period in consultation with the manager and staff of the new Data Processing Center, with Business Office personnel, and with heads of administrative and academic areas of the University. Many more hours were spent in analyzing registration and recording procedures and in planning the adaptation of these to machine methods. The University's course numbering system was revised in time for publication in the 1964-65 general catalog. Basic data from records of all students enrolled during the 1964 spring semester and of new and readmitted students enrolled during the 1964 summer session were coded for computer storage. Similar information from the applications and credentials of all applicants for the 1964 fall semester was collected and coded. Procedures connected with registration and many of the physical arrangements for registration were revised and streamlined. Almost every printed form used in registration and in compilation of student records was revised to meet the needs of the new system. The staff of the Office of Admissions and Records will long remember this period as one of hectic activity and adjustment superimposed upon their normal functions.

New Staff Position

In August of 1963, the office employed a male Director of Registration. This was the first step toward a reorganization of the Office of Admissions and Records to meet the demands of increasing enrollments and the adjustments necessary for adaptation to machine methods. The Director of Registration assumes major responsibilities in preparation for and execution of registration procedures, the preparation and distribution of class and examination schedules, and the assignment of instructional space.

Increasing Office Loads

The sizeable enrollment increases reflected by the statistical tables in this report have resulted in additional work loads for all sections of the Office of Admissions and Records. The effects are readily measurable in the areas of incoming and outgoing mail, catalogs issued, and transcript requests. Information about the loads in these three areas appears in the following pages.
Mail

Comparison of the incoming mail counts as listed below for 1962-63 and 1963-64 reveals an increase of more than 16 percent for the latter period. These figures do not include catalog mailings.

COMPARATIVE MAIL COUNT
FOR THE PERIOD JULY 1 THROUGH JUNE 30
1962-63 and 1963-64

<table>
<thead>
<tr>
<th></th>
<th>1962-63</th>
<th>1963-64</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Incoming</td>
<td>Outgoing</td>
</tr>
<tr>
<td>July</td>
<td>4321</td>
<td>10465</td>
</tr>
<tr>
<td>August</td>
<td>4057</td>
<td>10796</td>
</tr>
<tr>
<td>September</td>
<td>2845</td>
<td>7528</td>
</tr>
<tr>
<td>October</td>
<td>3208</td>
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<td>November</td>
<td>2389</td>
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<td>December</td>
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<td>February</td>
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<td>March</td>
<td>4242</td>
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<td>April</td>
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<td>6496</td>
</tr>
<tr>
<td>May</td>
<td>5199</td>
<td>17926</td>
</tr>
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<td>June</td>
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Catalogs

Twenty-seven thousand copies of the 1963-64 edition of the general catalog of the University were distributed to students, prospective students, faculty, and to other institutions. This compared with twenty-four thousand copies distributed during the 1962-63 school year. The general catalog is compiled and edited in the Office of Admissions and Records. It is published between the first and fifteenth of April each year.
Transcripts

During the period from July 1, 1963 through June 30, 1964, a total of 14,129 transcripts were issued by the Records section of this office. Of these, 5,304 were the free copies to which students were entitled. The remaining 8,825 resulted in payments or charges of $8,825.00. This income is assigned to the University's general fund. The table below gives a month-by-month account of transcripts issued during the 1962-63 and 1963-64 school years.

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- 4 -
### ADMISSIONS PROCESSING LOADS

#### Fall Semesters, 1954 through 1963

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### SUMMARY BY CATEGORIES OF ADMISSIONS AND READMISSIONS

1963 Fall Semester

#### ADMISSIONS

**Beginning Freshmen**
- By Certificate: 1625
- By Examination: 4
- After Special Testing and Interview: 63
- With More than 2 Subject Deficiencies: 14
- Early Admissions: 5

Total Beginning Freshman Admissions: 1711

**Undergraduate Transfers**
- From Two-year Colleges: 86
- From Four-year Colleges: 372
- From Nursing Schools Only: 2
- With Correspondence Credits Only: 2

Total Undergraduate Transfer Admissions: 462

**Graduates**
- With Degree from U. N. M.: 101
- With Degree from Other Institutions: 443

Total Graduate Admissions: 544

**Law**
- Prelegal Studies at U. N. M.: 20
- Prelegal Studies at Other Institutions: 27

Total Law School Admissions: 47

#### READMISSIONS

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Total Students Readmitted and Registered: 871

TOTAL NEW AND READMITTED REGISTRANTS: 4184
ADMISSION STATISTICS

ACADEMIC YEAR

1963-64

AND

COMPARATIVE DATA
### ADMISSION STATISTICS
#### 1963-64

#### SUMMARY OF NEW AND READMITTED STUDENTS

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Returning Students 1662 5310 7186

Workshops 501*

Total Enrollments 3510* 9494 8758

*Workshops scheduled during the regular eight-weeks' session and late workshops are included in the total summer session enrollment. These do not appear in the separate listing of workshops.
## NEW MEXICO HIGH SCHOOLS

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Note: Beginning freshmen entering the University during the 1963-64 school year represented 98 New Mexico high schools.
## BEGINNING FRESHMAN ADMISSIONS (Continued)

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BEGINNING FRESHMAN ADMISSIONS (Continued)

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SUMMARY OF BEGINNING FRESHMAN ADMISSIONS

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### COMPARISON OF BEGINNING FRESHMAN ADMISSIONS

Fall Semesters 1954-55 through 1963-64

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ENROLLMENT STATISTICS

ACADEMIC YEAR

1963-64

AND

COMPARATIVE ENROLLMENTS
### STUDENT ENROLLMENTS
1944-45 through 1963-64

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*During World War II, the University operated on a three-semester basis.
FULL-TIME STUDENT EQUIVALENTS COMPARED WITH TOTAL ENROLLMENTS
1954-55 through 1963-64

FALL SEMESTERS

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<th>F. T. E.*</th>
<th>Percent. of Total</th>
</tr>
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<tbody>
<tr>
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<tr>
<td>1955-56</td>
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<td>6914</td>
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<td>72.27%</td>
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<tr>
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<td>7284</td>
<td>5214</td>
<td>71.62%</td>
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<tr>
<td>1960-61</td>
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<tr>
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<td>5880</td>
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<tr>
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<tr>
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SPRING SEMESTERS

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<td>1955-56</td>
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<td>5488</td>
<td>4029</td>
<td>73.41%</td>
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<td>1960-61</td>
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<tr>
<td>1961-62</td>
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<tr>
<td>1963-64</td>
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<td>6456</td>
<td>73.72%</td>
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*The full-time equivalent (F. T. E.) is computed by dividing the total number of student credit hours by an average full-time load of 16 semester hours.
ANALYSIS OF ENROLLMENTS BY SEMESTER HOUR LOADS
1954-55 through 1963-64

### Fall Semesters

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<td>1336</td>
<td>1793</td>
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<tr>
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<td>193</td>
<td>237</td>
<td>282</td>
<td>314</td>
<td>356</td>
<td>386</td>
<td>582</td>
<td>643</td>
<td>710</td>
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<td>3455</td>
<td>3779</td>
<td>4059</td>
<td>4289</td>
<td>4466</td>
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<td>2173</td>
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<td>398</td>
<td>532</td>
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<td>683</td>
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<td>7330</td>
<td>8040</td>
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ANALYSIS OF STUDENT ENROLLMENTS AND CREDIT HOURS
BY COLLEGES AND DEPARTMENTS

1963-64 Academic Year

(Excluding drops and withdrawals prior to the fourth week of
the semester or to the third week of the summer session)

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<tr>
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<td>226</td>
<td>334</td>
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<td>756</td>
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- 16 -
ANALYSIS OF STUDENT ENROLLMENTS AND CREDIT HOURS (Continued)

<table>
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<th>College &amp; Dept.</th>
<th>Student Enrollments</th>
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Note: Not listed above are English A (Engl. 010) and Mathematics A (Math. 010), remedial courses requiring three class hours of attendance each week. Student enrollments in these courses during 1963-64 were:

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- 17 -
### SEVEN-YEAR SUMMARY OF ENROLLMENTS BY COLLEGES

1957-58 through 1963-64

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*General College discontinued after 1957 Summer Session.

Note: The Colleges of Nursing and Pharmacy and the School of Law do not regularly offer courses of their own during summer sessions, but some of their students do take courses from other divisions of the University.
### SEVEN-YEAR SUMMARY OF ENROLLMENTS BY COLLEGES

**1957-58 through 1963-64**

<table>
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### SEVEN-YEAR SUMMARY OF ENROLLMENTS BY COLLEGES

1957-58 through 1963-64

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*Includes all summer workshops.

Note: The fifth year classification applies only to the five-year degree programs in Architecture and Pharmacy.

Note: The School of Law and the Colleges of Pharmacy and Nursing normally do not offer courses during the summer, but their students may take courses available from other academic areas of the University.
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* The fifth year classification applies only to the five-year degree programs in Architecture and Pharmacy.

**Of the total enrollment 951 students were registered for evening courses only.
### ENROLLMENT BY COLLEGE AND CLASS

**Semester II, 1963-64**

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* The fifth year classification applies only to the five-year degree programs in Architecture and Pharmacy.  

**Of the total enrollment 887 students were registered for evening courses only.**

**Evening Undergraduates:**  
- Regular Status: 195  
- Non-degree Status: 402  
- Evening Graduates: 290  
- Total Evening Enrollment: 887
## COLLEGE ENROLLMENTS
### MEN AND WOMEN
#### 1963-64

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#### Men and Women 1963-64

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### COLLEGE ENROLLMENTS
#### MEN AND WOMEN
#### 1963-64

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## COLLEGE ENROLLMENTS
### MEN AND WOMEN
#### 1963-64

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## COLLEGE ENROLLMENTS
MEN AND WOMEN
1963-64

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ANALYSIS OF EVENING CREDIT ENROLLMENTS  
1963-64

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Note: Credit courses offered after 5 p.m. are classified for statistical purposes as evening offerings.

HOURS AND EQUIVALENTS FOR EVENING CREDIT ENROLLMENTS

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*The full-time student equivalent (F. T. E.) is computed by dividing the total number of student credit hours by an average full-time load of 16 semester hours.
ANALYSIS OF ENROLLMENTS
OFF-CAMPUS RESIDENT CREDIT CENTERS
1963-64 Academic Year

LOS ALAMOS

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# GEOGRAPHICAL SOURCES OF ENROLLMENT

## 1963-64 Academic Year

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Students Enrolled from Other States

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- 35 -
### GEOGRAPHICAL SOURCES OF ENROLLMENT (Continued)

#### Students Enrolled from Territories and Other Countries (Continued)

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*Based upon residence for tuition purposes.
### COMPARATIVE ENROLLMENTS - RESIDENT AND NON-RESIDENT
*(Based upon Residence for Tuition Purposes)*

1954-55 through 1963-64

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<td>6638</td>
<td>7164</td>
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<td>(88%)</td>
<td>(88%)</td>
<td>(86%)</td>
<td>(87%)</td>
<td>(86%)</td>
<td>(85%)</td>
<td>(84%)</td>
<td>(83%)</td>
<td>(82%)</td>
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<td>Out-of-State</td>
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<td>558</td>
<td>642</td>
<td>852</td>
<td>799</td>
<td>919</td>
<td>999</td>
<td>1200</td>
<td>1402</td>
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<td>(12%)</td>
<td>(12%)</td>
<td>(14%)</td>
<td>(13%)</td>
<td>(14%)</td>
<td>(15%)</td>
<td>(16%)</td>
<td>(17%)</td>
<td>(18%)</td>
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<td>4283</td>
<td>4629</td>
<td>5488</td>
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<td>6132</td>
<td>6468</td>
<td>6805</td>
<td>7330</td>
<td>8040</td>
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## Comparative Enrollments - Men and Women

### Summer Sessions

<table>
<thead>
<tr>
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<th>Men</th>
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<th>Women</th>
<th>Percent of Total</th>
<th>Total Enrollments</th>
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<tr>
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<td>549</td>
<td>(43%)</td>
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<td>861</td>
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<td>568</td>
<td>(40%)</td>
<td>1429</td>
</tr>
<tr>
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<td>636</td>
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<td>1598</td>
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<td>802</td>
<td>(41%)</td>
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<tr>
<td>1958</td>
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<td>1055</td>
<td>(45%)</td>
<td>2334</td>
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<tr>
<td>1959</td>
<td>1252</td>
<td>(55%)</td>
<td>1111</td>
<td>(45%)</td>
<td>2263</td>
</tr>
<tr>
<td>1960</td>
<td>1391</td>
<td>(54%)</td>
<td>1169</td>
<td>(46%)</td>
<td>2560</td>
</tr>
<tr>
<td>1961</td>
<td>1432</td>
<td>(51%)</td>
<td>1617</td>
<td>(53%)</td>
<td>3049</td>
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<tr>
<td>1962</td>
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<td>(49%)</td>
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<td>1963</td>
<td>1708</td>
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<td>(51%)</td>
<td>3510</td>
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### Fall Semesters

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<td>3658</td>
<td>(73%)</td>
<td>1370</td>
<td>(27%)</td>
<td>5028</td>
</tr>
<tr>
<td>1956</td>
<td>4291</td>
<td>(73%)</td>
<td>1563</td>
<td>(27%)</td>
<td>5854</td>
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<tr>
<td>1957</td>
<td>4978</td>
<td>(73%)</td>
<td>1770</td>
<td>(27%)</td>
<td>6648</td>
</tr>
<tr>
<td>1958</td>
<td>4998</td>
<td>(72%)</td>
<td>1916</td>
<td>(28%)</td>
<td>6914</td>
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<tr>
<td>1959</td>
<td>5232</td>
<td>(72%)</td>
<td>2052</td>
<td>(28%)</td>
<td>7284</td>
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<tr>
<td>1960</td>
<td>5264</td>
<td>(69%)</td>
<td>2331</td>
<td>(31%)</td>
<td>7595</td>
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<tr>
<td>1961</td>
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<td>(67%)</td>
<td>2680</td>
<td>(33%)</td>
<td>8086</td>
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<td>1962</td>
<td>5721</td>
<td>(66%)</td>
<td>2921</td>
<td>(34%)</td>
<td>8642</td>
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<td>1963</td>
<td>6214</td>
<td>(65%)</td>
<td>3280</td>
<td>(35%)</td>
<td>9494</td>
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### Spring Semesters

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<th>Men</th>
<th>Percent of Total</th>
<th>Women</th>
<th>Percent of Total</th>
<th>Total Enrollments</th>
</tr>
</thead>
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<tr>
<td>1955</td>
<td>3051</td>
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<tr>
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<td>3385</td>
<td>(73%)</td>
<td>1244</td>
<td>(27%)</td>
<td>4629</td>
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<tr>
<td>1957</td>
<td>4059</td>
<td>(74%)</td>
<td>1429</td>
<td>(26%)</td>
<td>5488</td>
</tr>
<tr>
<td>1958</td>
<td>4512</td>
<td>(73%)</td>
<td>1634</td>
<td>(27%)</td>
<td>6146</td>
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<tr>
<td>1959</td>
<td>4384</td>
<td>(73%)</td>
<td>1748</td>
<td>(29%)</td>
<td>6132</td>
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<tr>
<td>1960</td>
<td>4559</td>
<td>(71%)</td>
<td>1909</td>
<td>(30%)</td>
<td>6468</td>
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<td>1961</td>
<td>4662</td>
<td>(70%)</td>
<td>2143</td>
<td>(31%)</td>
<td>6805</td>
</tr>
<tr>
<td>1962</td>
<td>4839</td>
<td>(69%)</td>
<td>2491</td>
<td>(34%)</td>
<td>7330</td>
</tr>
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<td>1963</td>
<td>5303</td>
<td>(66%)</td>
<td>2737</td>
<td>(34%)</td>
<td>8040</td>
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<td>1964</td>
<td>5701</td>
<td>(65%)</td>
<td>3057</td>
<td>(35%)</td>
<td>8758</td>
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## COMPARATIVE ENROLLMENTS - CIVILIAN AND VETERAN

### 1954-55 through 1963-64

### SUMMER SESSIONS

<table>
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<tr>
<th>Year</th>
<th>Civilians</th>
<th>Percent of Total</th>
<th>Veterans</th>
<th>Percent of Total</th>
<th>Total Enrollments</th>
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</thead>
<tbody>
<tr>
<td>1954</td>
<td>1001</td>
<td>(78%)</td>
<td>286</td>
<td>(22%)</td>
<td>1287</td>
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<tr>
<td>1955</td>
<td>1097</td>
<td>(77%)</td>
<td>332</td>
<td>(23%)</td>
<td>1429</td>
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<tr>
<td>1956</td>
<td>1233</td>
<td>(77%)</td>
<td>365</td>
<td>(23%)</td>
<td>1598</td>
</tr>
<tr>
<td>1957</td>
<td>1619</td>
<td>(83%)</td>
<td>343</td>
<td>(17%)</td>
<td>2334</td>
</tr>
<tr>
<td>1958</td>
<td>2020</td>
<td>(87%)</td>
<td>314</td>
<td>(13%)</td>
<td>2263</td>
</tr>
<tr>
<td>1959</td>
<td>2369</td>
<td>(93%)</td>
<td>272</td>
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<td>2560</td>
</tr>
<tr>
<td>1960</td>
<td>2901</td>
<td>(95%)</td>
<td>191</td>
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<td>3049</td>
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<td>1961</td>
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<td>1963</td>
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### FALL SEMESTERS

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<th>Veterans</th>
<th>Percent of Total</th>
<th>Total Enrollments</th>
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</thead>
<tbody>
<tr>
<td>1954</td>
<td>3793</td>
<td>(81%)</td>
<td>899</td>
<td>(19%)</td>
<td>4692</td>
</tr>
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<td>1955</td>
<td>3869</td>
<td>(77%)</td>
<td>1159</td>
<td>(23%)</td>
<td>5028</td>
</tr>
<tr>
<td>1956</td>
<td>4647</td>
<td>(79%)</td>
<td>1207</td>
<td>(21%)</td>
<td>5854</td>
</tr>
<tr>
<td>1957</td>
<td>5439</td>
<td>(82%)</td>
<td>1209</td>
<td>(18%)</td>
<td>6484</td>
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<td>1958</td>
<td>5857</td>
<td>(85%)</td>
<td>1057</td>
<td>(15%)</td>
<td>7043</td>
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<td>1959</td>
<td>6484</td>
<td>(89%)</td>
<td>800</td>
<td>(7%)</td>
<td>7713</td>
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<tr>
<td>1960</td>
<td>7043</td>
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<td>552</td>
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</tr>
<tr>
<td>1961</td>
<td>7713</td>
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<td>373</td>
<td>(3%)</td>
<td>8925</td>
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<td>1962</td>
<td>8402</td>
<td>(97%)</td>
<td>240</td>
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<td>1963</td>
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### SPRING SEMESTERS

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<th>Total Enrollments</th>
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<tbody>
<tr>
<td>1955</td>
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<td>(77%)</td>
<td>973</td>
<td>(23%)</td>
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<td>1956</td>
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<td>1115</td>
<td>(24%)</td>
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<td>(21%)</td>
<td>5488</td>
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<td>1958</td>
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<td>(18%)</td>
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<td>(84%)</td>
<td>959</td>
<td>(16%)</td>
<td>6132</td>
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<td>(11%)</td>
<td>6468</td>
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<td>1961</td>
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<td>6805</td>
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<td>7330</td>
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<td>1963</td>
<td>7855</td>
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<td>185</td>
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<td>1964</td>
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<td>(98%)</td>
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## - 39 -
WITHDRAWALS RELATED TO TOTAL ENROLLMENTS
1962-63 and 1963-64

SEMESTER I

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<th>1963-64</th>
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<td>Withdrawals</td>
<td>% of Enroll.</td>
<td>Withdrawals</td>
<td>% of Enroll.</td>
</tr>
<tr>
<td>First Week</td>
<td>20*</td>
<td>0.23%</td>
<td>35*</td>
<td>0.37%</td>
</tr>
<tr>
<td>Second Week</td>
<td>46</td>
<td>0.53%</td>
<td>57</td>
<td>0.60%</td>
</tr>
<tr>
<td>Total First Two Weeks</td>
<td>66*</td>
<td>0.76%</td>
<td>92*</td>
<td>0.97%</td>
</tr>
<tr>
<td>3 - 4 Weeks</td>
<td>84</td>
<td>0.97%</td>
<td>118</td>
<td>1.24%</td>
</tr>
<tr>
<td>5 - 8 Weeks</td>
<td>115</td>
<td>1.33%</td>
<td>100</td>
<td>1.05%</td>
</tr>
<tr>
<td>9 - 16 Weeks</td>
<td>115</td>
<td>1.33%</td>
<td>141</td>
<td>1.49%</td>
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<tr>
<td>Totals</td>
<td>380</td>
<td>4.40%</td>
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SEMESTER II

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<td>% of Enroll.</td>
<td>Withdrawals</td>
<td>% of Enroll.</td>
</tr>
<tr>
<td>First Week</td>
<td>23*</td>
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<td>20*</td>
<td>0.23%</td>
</tr>
<tr>
<td>Second Week</td>
<td>34</td>
<td>0.42%</td>
<td>44</td>
<td>0.50%</td>
</tr>
<tr>
<td>Total First Two Weeks</td>
<td>57*</td>
<td>0.71%</td>
<td>64*</td>
<td>0.73%</td>
</tr>
<tr>
<td>3 - 4 Weeks</td>
<td>71</td>
<td>0.88%</td>
<td>58</td>
<td>0.66%</td>
</tr>
<tr>
<td>5 - 8 Weeks</td>
<td>112</td>
<td>1.39%</td>
<td>81</td>
<td>0.92%</td>
</tr>
<tr>
<td>9 - 16 Weeks</td>
<td>86</td>
<td>1.07%</td>
<td>87</td>
<td>0.99%</td>
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<tr>
<td>Totals</td>
<td>326</td>
<td>4.05%</td>
<td>290</td>
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</table>

*Students who withdrew with full refund during the first week of a semester were not counted in enrollment or withdrawal figures.
GRADE POINT AVERAGE SUMMARIES

ACADEMIC YEAR

1963-64
**SUMMARY OF GRADE-POINT AVERAGES**

*All University Average*  
2.3261

*All University Men*  
2.2292

*All University Women*  
2.5022

*Averages exclude Graduate School, School of Law, and Non-degree.*

---

### SCHOLARSHIP STANDING BY CLASSES

(Excluding Graduate School and School of Law)

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<th>Class</th>
<th>Average</th>
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<tr>
<td>Women</td>
<td>2.2004</td>
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<tr>
<td>Sophomore Class Average</td>
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<tr>
<td>Men</td>
<td>2.2739</td>
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<tr>
<td>Women</td>
<td>2.5099</td>
</tr>
<tr>
<td>Junior Class Average</td>
<td>2.5271</td>
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<tr>
<td>Men</td>
<td>2.5078</td>
</tr>
<tr>
<td>Women</td>
<td>2.7582</td>
</tr>
<tr>
<td>Senior Class Average</td>
<td>2.7861</td>
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<td>2.9528</td>
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<td><em>Fifth Year Class Average</em></td>
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<tr>
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<tr>
<td>Unclassified Students Average</td>
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<td>2.0000</td>
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<tr>
<td>Women</td>
<td>2.7916</td>
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<tr>
<td>Non-degree Students Average</td>
<td>2.2714</td>
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<tr>
<td>Men</td>
<td>2.0838</td>
</tr>
<tr>
<td>Women</td>
<td>2.5958</td>
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</tbody>
</table>

*The Fifth Year classification for undergraduate study applies to the five-year degree programs in Architecture and in Pharmacy.*

**Note:** The University computes grade averages on the four-point system:

- **A** - 4 points
- **B** - 3 points
- **C** - 2 points
- **D** - 1 point
- **F** - 0 points
## SCHOLARSHIP STANDING BY COLLEGES
### 1963-64 Fall Semester

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<tr>
<td>Graduate School</td>
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<tr>
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<td>Nursing</td>
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<td>Pharmacy</td>
<td>2.1560</td>
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### SCHOLARSHIP STANDING* 
NON-FRATERNITY and FRATERNITY GROUPS

<table>
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<tr>
<th>Group</th>
<th>Men</th>
<th>Women</th>
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*Excluding Graduate School, School of Law, and Non-degree.
DEGREES CONFERRED

ACADEMIC YEAR

1963-64

AND

SUMMARIES
## DEGREES, DIPLOMAS, AND CERTIFICATES CONFERRED

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## DEGREES CONFERRED BY COLLEGES

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2081 987 40 20 2 36 2 83 54 197 10 15 3530 91
The director of the University Counseling and Testing Services would be remiss in his responsibilities if he did not point out that many secondary schools have displayed marked improvement in the past few years. In increasing numbers these schools are offering, at least to their abler pupils, stronger curricula in mathematics, more extensive work in the sciences, more intensive instruction in foreign languages, as well as more thorough work in history and some broadening of the exposure to English literature.

A second development is the shift in the educational plans and expectations of the secondary school graduates. The college years are no longer the terminal point of their formal education. An increasing number of the university graduates are going on to professional and graduate schools. The bachelor's degree is becoming an intermediate degree for an increasing number of students.

It is well to remember that most of the improvements taking place in the secondary schools today and contemplated for the future are precisely what many colleges have been begging the schools to do for years. The complaint in the colleges for at least a century has been that they have been doing, because they were obliged to, what should have been done in the secondary schools. These changes that are taking place at the secondary level will give the colleges the very
kind of opportunity that they have been asking for. The baton has been passed to the universities and colleges. Now let us watch and see what they do with it.

The work of the University Counseling and Testing Services may be roughly divided as follows: (1) group testing, (2) individual testing and counseling, (3) research, (4) test scoring services, (5) consulting work, (6) remedial reading, (7) community services, and (8) work of the division of Veterans Affairs.

Group Testing

The group testing work may be divided into two parts. One part deals with the tests that are sponsored by The University of New Mexico and the other part deals with the tests that are sponsored by such outside agencies as the Educational Testing Service. The University of New Mexico sponsors the following tests:

a. The placement and college aptitude examinations given at the beginning of each school session. Twenty-five hundred and fifty (2550) freshmen and five hundred and eighteen (518) transfer students took these examinations this past year. These examinations consist of the following:

1) The School and College Ability Test
2) Cooperative English Test, Higher Level
3) C.E.E.B. Advanced Mathematics Test
4) Iowa Legal Aptitude Test (Law School only)

b. The English Proficiency Examination

c. The Area and Advanced Tests of the Graduate Record Examination for seniors

d. The Aptitude and Advanced Tests of the Graduate Record Examination for graduate students
Due to the fact that over one thousand new students are given their placement tests during the summer, several hundred of these students come in during these months for test interpretation and consultation. The result is that the summer months are very busy ones. It is becoming increasingly difficult to plan vacations during the summer session. It has become advisable for some of the staff members to take their vacations during the school year. Two people did take their vacations early and this procedure helped a great deal.

Individual Testing and Counseling

Students come in for individual testing and counseling when they are uncertain as to a vocational or an educational objective. Somewhat over two hundred of these students took a complete battery of tests this past year in addition to the placement tests. Several times this number came in for counseling but did not have to take any tests other than those taken at the time of admission. There is a great demand for this type of service from adults in the community.

Present facilities for offering this service to students as well as to outsiders are inadequate. At present most of the students who are referred to this office are already so deeply involved in problems that much time is consumed in assisting them. We act somewhat as ambulance drivers - dispensers of academic first aid. It would be desirable if we could see these people before their problems become acute.

Seven clients were tested for the State Vocational Rehabilitation Service. The University receives $10.00 for each client tested.
The titles of some of the studies made during the past year follow:

1. A Study of the Results of the Area Tests of the Graduate Record Examination at The University of New Mexico.

2. The Departments of the College of Arts and Sciences and the Area Tests of the Graduate Record Examination.


The Counseling and Testing Services has a wealth of information at its disposal which could be gathered together in the form of studies if it had the necessary personnel available. The material that is assembled and made available is well received. Twenty-three thousand copies of a study published last year have been distributed to date.

The English Proficiency Examination is now required for admission by each of the degree granting colleges. Over one thousand students took this examination this past year on special testing dates. Many of these students come to this office for consultation as to their strengths and weaknesses in English so that they may properly prepare for this examination. These conferences require a great deal of time; in fact, more time than we have available.

The Graduate Record Examination for college seniors includes the areas of the humanities, the social sciences, and the natural sciences. The examination takes three hours and forty-five minutes of actual testing time. The Advanced Tests in the field of the student's specialization take three hours of testing time. There are no
Advanced Tests as yet in business, anthropology, art, home economics, journalism, and a few other fields. Seven hundred and ninety-eight (798) seniors took the Graduate Record Examination this past year compared with seven hundred and five (705) for the year 1962-63.

Graduate students take the Graduate Record Examination which consists of the Graduate Aptitude Test and an Advanced Test in the field of the student's specialization. Three hundred and thirty (330) graduate students took the Graduate Record Examination this past year as compared with four hundred and thirty (430) for the year 1962-63. The decrease in the number of graduate students taking the Graduate Record Examination is due to the fact that during the previous year a large number of graduate students who had been in residence for several years were required to take the examination without further delay.

Test Scoring Service

The University Counseling and Testing Services has scored objective tests for a few public schools, agencies, and individual faculty members. This past year hundreds of tests were scored for the Peace Corps. This service to outside groups is being curtailed but faculty members are making increased use of this service.

Consulting Work

Hardly a week passes without the Counseling and Testing Services receiving a request from some institution, agency, or person for assistance in planning a testing program or in the selection of personnel. No charge is made for these services. Graduate students, faculty members, and various administrative officers are also assisted when a request is made to do so. The Director has been called upon
again this year by the New Mexico State Legislative Finance Committee for assistance.

Remedial Reading

Mrs. Gene L. Chievitz, our reading specialist, is called upon more and more to give assistance to college students who have reading difficulties or are in need of study skills. This increase in students means that:

1. It has been necessary for her to use group methods instead of individual conferences in spite of the fact that only those who are likely to profit from such services are selected.

2. It has been necessary to restrict services to advice and referral for all non-students such as parents of children needing reading assistance.

Because many students with high scholastic aptitude have not established efficient study skills and do not read adequately to meet the demands of college assignments, weekly meetings extending over several months are necessary. The students would receive great benefits from these services if meetings could be increased to three a week as in the remedial English classes.

Statewide Testing Program

The Statewide Tests for High School Juniors were sponsored jointly by The University of New Mexico, New Mexico Highlands University, Eastern New Mexico University, and the New Mexico Institute of Mining and Technology. The cooperating institutions contributed $2,424.96 toward the support of this testing program this past year. The State Department of Education contributed $2,500.00 out of the N.D.E.A. funds toward the support of this program.

The School and College Ability Tests (SCAT) were given for the first time in the fall of 1959. Each SCAT test booklet is divided into four parts or subtests. 

"Two of the subtests are measures of
developed verbal ability and two measure ability in basic quantitative areas." The SCAT tests yield three scores: a verbal score, a quantitative score, and a total score. SCAT measures a student's power or developed ability rather than speed in performing certain mental processes.

The five Sequential Tests of Educational Progress (STEP) represent the latest techniques in test construction. They were developed with four basic assumptions in mind:

1. Education is a continuous and cumulative process.
2. The primary goal of the whole educational process is the development of the individual student.
3. The focus of education is upon the development of critical skills and understandings.
4. The success of education is to be measured in terms of the individual's ability to apply his school-learned skills in solving new and, for him, realistic problems.

These tests give a valid indication of the student who is capable of doing satisfactory college work. The effect that these tests should have upon the educational process in the secondary school should be salutary.

The number of high school students tested each year follows: in the fall of 1953 there were 6912 students tested; in 1954, 7545; in 1955, 7787; in 1956, 9013; in 1957, 9388; in 1958, 10,900; in 1959, 10,895; in 1960, 10,796; in 1961, 10,296; in 1962, 12,453; and in 1963, 15,164.

Testing

A good many tests are administered each year for the Educational Testing Service and several other agencies. The most important of these are the Admission Test for Graduate Study in Business, College Entrance Examination Board, Dental School Admission Test, Dental Assistants' Tests, Dental Hygiene Aptitude Tests, Federal Career
Development Tests, Law School Admission Test, Medical College Admission Test, Navy College Admission Test, Standardization Programs, Nursing Tests, and the Graduate School Selection Test. Fees received for the administration of these tests are deposited with the Comptroller. This past year $1,728.24 was so deposited. An additional $791.70 was deposited with the Comptroller for scoring services rendered. Most of these tests are given on Saturdays. Staff members have been given compensatory time off, but the Director has never been able to find the time to take off. He puts in about twenty such Saturdays a year and the extra money he earns on these Saturdays goes to the University. This situation should be corrected. During the seventeen years the Director has served The University of New Mexico over one full year in such uncompensated time has accumulated.

The USAPI tests of General Educational Development are still being administered each month to young people who have not graduated from high school and who are at least twenty years of age. Two hundred and twelve (212) people took this battery of five tests this past year. Employers are insisting upon high school education or its equivalent so that the number of people who will take this test will continue to be high. Some of these people qualify for admission to The University of New Mexico and stay on to graduate.

Community Services

The Director of Counseling and Testing Services was a public representative on the New Mexico State Apprenticeship Council for four years. He is a past president of this council.

The Director is the present chairman of the New Mexico State Labor and Industrial Commission. He is the public representative on this commission.
Veterans Affairs

Mr. N. S. Stout, the Director of Veterans Affairs, has one full time assistant (secretary).

The main duty of this department is to act as liaison between the University and the Veterans Administration in aiding veterans and war orphan students in their benefits under the educational bill of rights. The Director carries on a great deal of individual counseling with these students. As the number of veteran students diminishes, more of his time is being used in counseling civilian students and assisting in administering group tests.

The University and the Veterans Administration entered into a contract to furnish counseling and guidance services to war orphans and disabled veterans. The fee established for this service is $60.00 per case for complete counseling services and $25.00 for psychometrics only. The number of these cases averages about 20 per month. It has been running close to 245 cases per year for the past two years.

Counseling of these war orphans and veterans is being done for the most part by the Director of Veterans Affairs and one part time counselor who is paid according to the number of veterans or orphans he counsels. Since this contract went into effect in June of 1961 there have been 488 cases completed through June of 1964. For this counseling service the University of New Mexico has received $25,616.11

During semester I, 1963-64, there were 234 veterans and war orphans enrolled, and for semester II, 1963-64, there were 206. V.A. regulations require that each of these people report to this office at the end of each month to complete a monthly certification form for their subsistence. The University is paid by the Federal Government for
processing this monthly certification. For the fiscal year 1963-64 the University received a total of $2,364.66 for these services. Since September 1952, which was the beginning of the Korean program, the University has received a total of $97,863.15 for the services rendered by the Veterans Affairs office.

Staff Separations and Appointments

Mr. Claire A. Barfoot, psychometrist, retired on December 31, 1963. He was replaced by Mr. Lynn E. Castle on January 16, 1964.

Professional Activities of Director of Counseling and Testing

Member of Coordinating Council of Secondary Schools and Colleges for New Mexico.

President, New Mexico Chapter of N.V.G.A., 5 years.

President, New Mexico Chapter of A.P.G.A., 4 years.

Member of Program Committee, State Testing Leaders Conference, 3 years.


State Membership Chairman of A.C.P.A. and A.P.G.A.

Member of Publicity Committee of A.P.G.A., 1956-57 and 1957-58.

Member of Academic Council of Western Personnel Institute, 10 years.

President, New Mexico Chapter of American Society of Training Directors, 1959.
Recommendations

The New Mexico Statewide High School Testing Program should be continued even if The University of New Mexico must support it without the assistance of the other institutions of higher education. It is believed, however, that the new State Director of Guidance will favor the continuance of this testing program with support from N.D.E.A. funds.

The University of New Mexico should look forward to a College Entrance Examination Board testing program as a possible substitute for the present placement testing program for new students. This is a practice which is being followed by an increasing number of state universities. The C.E.E.B. tests should make it possible for us to place students properly not only in English and mathematics classes, but also in modern language classes. The modern language department is strongly in favor of this move.

When the University Counseling and Testing Services moves to new quarters in 1966, or thereabouts, it should be given approximately twice the space it now has. Particular emphasis should be given to space for testing and for remedial reading work. At least twice the floor space now devoted to these services should be provided in the new quarters. Adequate air-conditioning should also be provided.
NEW MEXICO UNION
1963-64

The year 1963-64 provided its share of surprises, disappointments, and noteworthy items. While an increase in sales volume of 18% over the budget, 15% over the previous year, was largely instrumental in enabling the Union to do much better than was expected financially it also provided the problem of stretching staff hours, postponing work projects planned for the year, and causing changes and operational adjustments to handle the volume. The increase did not materially affect the New Mexico Union's participation in National Association of College Unions or National Association of College Stores programs, however, nor did it hamper participation in programs of staff development or postpone recognition of certain staff members.

Later in the report I will also point out items of interest which, while some are minor seem significant under the circumstances to indicate dependable staff performance and steady growth of the Union and its program.

Overall sales volume increased 18% over best budget expectations. Specific increase percentages show Food Service at + 27%, Bookstore + 14½%, Games Area + 13½%, Information Desk + 11%, and Guest Rooms at + 32%. These increases in sales volume resulted in an increase over expected net of
$38,000, resulting in a need for $17,900 to balance operations, excluding Bond requirements, instead of an anticipated need of $55,700. It is important to point out that if Bond Fee income entirely covered the Bond obligations, the amount needed to balance operations would be the equivalent of approximately $2.50 per student "operating fee" for the year.

Most of the overall increase in volume is attributed to an unusually high volume in the first semester of operation. This unusually high unanticipated volume gave rise to particular problems at the beginning of the year.

It was quickly obvious that there was no labor slack available in existing crews. Service problems required regular schedules to be extended to handle needs until staff could be added to cover requirements and new employees could be trained and, as a result, require less direct supervision. Probably the most dramatic example: by December, two supervisory level staff in Food Service had accumulated a total of over 600 hours compensatory time for required time beyond their originally anticipated schedule.

The lack of time to spend on work projects was particularly felt as the year progressed. The time required to meet the guest-public did not permit the opportunity to work on such projects as development of formal in-training
programs for personnel, the development of informational brochures for distribution to users of the Union, and work on completing an internal study of the salary and wage program within the Union reviewing relative wage levels as well as base wage levels for all positions. The dissatisfaction of not being able to get to these programs was increased with the knowledge that had the results of these projects been available they would have been an invaluable in saving time during the pressure situation upon us. Nevertheless, some procedures were still reviewed and brought up-to-date when necessitated by turn-over of personnel. One such example was that of the Receiving Office operation and the Receiving Clerk position, completely restudied at the time change of personnel dictated a review of the operation.

Probably the most outstanding problem pointed out by the increase of volume was the need for revamping physical layout, and the need for additional equipment to handle such volume. In some cases, such as assigning the Faculty Lounge to be used as an overflow seating area for Snack Bar - Cafeteria customers, physical areas had their function changed to accommodate the volume. Mesa Lounge was removed from the list
of available meeting rooms and became a Lounge during the
week-day daytime hours. Areas which had been used for "dead"
storage became areas for transient storage, storage of items
purchased to be used for resale through revenue-producing
areas such as Bookstore and Food Service. Approximately
$3,400 worth of additional equipment was added to the
building. Tables and chairs were added to the Games Area
(Lobo Room). Additional cash registers were purchased for
Food Service, as were two portable beverage bars. A
bookkeeping machine was purchased for the Bookstore operation
in order to keep up with the volume of accounting work
necessary in that area. In order to increase the amount of
time available to Desk Attendants for handling customer
traffic, a stamp machine was purchased and juke box-type
record player for the music listening room operation was
purchased. Being able to offer better service at the counter
no doubt was instrumental in helping increase the revenue
from the Information Desk operation from $130 last year to
over $3,000 this year.

Even with the high volume problems, University
representatives to National Association of College Unions
Games programs fared very well in Regional competition, and
were well represented in National competition. The following
is a list of awards won by representatives of the University of New Mexico in these programs this past year:

Bowling

**Regional Competition**

- First - Team - Women's
- Second - Doubles - Men's
- Second - Singles - Men's
- Third - Doubles - Women's
- Third - Singles - Women's
- Third - All Events - Women's *
- Sixth - All Events - Men's
- Seventeenth - Team - Men's

* Jerry Johnson selected as representative to National ACU Women's Tournament

Billiards

**Regional Competition**

- First - 3-Cushion Billiards - Men *
- First - Pocket Billiards - Women **
- Sixth - Pocket Billiards - Men

**National Competition**

- ** Second - Pocket Billiards - Women
- Virginia Massara

- * Fourth - 3-Cushion Billiards - Men
- John Grannis

Table Tennis

**Regional Competition**

- Third - Singles - Men
- Third - Doubles - Men

Chess

**Regional Competition**

- Second - Team

Five different persons were able to include managerial development activities during the year. G. W. Earickson, Accountant, "Si" Jackson, Bookstore Manager, and Bill Bierbaum,
Director, completed the introductory course in Data Processing sponsored by the University. Paul Mares, Assistant Bookstore Manager, accompanied "Si" Jackson to the National Association of College Stores National Conference, Mr. Jackson also attending the Regional Conference. "Bub" Henry, Games Manager, accompanied Bill Bierbaum to the National Association of College Unions Conference. In addition Bill Bierbaum completed a course in executive development sponsored by the National Restaurant Association.

It is worthy to note that again New Mexico Union staff members were recognized and honored for their activities by National organizations:

Mr. "Bub" Henry was asked to continue as ACU Region 10 Recreational Advisor, and acted as sponsor for the Regional Games Tournament held in Boulder, Colorado.

Mr. George Meyers was asked to become a member of the National Association of College Unions Committee on the Arts. In such capacity at the request of the National Committee, George completed a paper concerned with developing Regional Art Exhibits which was, in turn, published by the Committee on the Arts and distributed to all members of the Association of College Unions.

"Si" Jackson was elected to a three-year term on the Board of Trustees of the National Association of College Stores at the National Conference held in San Francisco, and has been asked to
co-host the coming Regional Conference in Albuquerque. In December "Si" was honored to have an article published in the National Association of College Stores Journal taken from his presentation at the New Orleans Regional Conference, entitled "A Problem with New Titles".

Bill Bierbaum served as a program participant in the National Association of College Unions Conference held at the University of Indiana, and also was a program participant on the Regional New Mexico Restaurant Association Conference held at Carlsbad.

Following completion of four years in the position as Program Advisor at the New Mexico Union, Mr. George Meyers was invited to assume the responsibilities of Director of the College Center operation at Colorado State University, Greeley, Colorado, bringing to three the number of persons in managerial level positions in College Unions who have "graduated" from the New Mexico Union. (John Allen is now at New Mexico State University, and Bill Dean is on the staff at the University of Pennsylvania.)

Further recognition of the New Mexico Union operation might be supported by the following list of schools who were advised and/or aided directly during the
past year:

College of St. Michaels
Eastern New Mexico University
Florida State University
Ft. Lewis A. & M.
Mesa College
New Mexico Western College
Northwestern University
St. John's College
Texas A. & M.
Texas Western College
University of California (Berkeley)
University of Colorado
University of Oklahoma
University of Utah

In addition to this Union staff hosted informal visits by personnel from all New Mexico schools who, for various reasons, were visiting the University of New Mexico.

Managerial - supervisory staff turnover in the New Mexico Union was relatively small with one notable exception. In the Information Desk and Scheduling area a complete change-over included a change in Manager and Scheduling Assistant, and a change in both regular Desk Attendant positions. Mrs. Betty Scales assumed the responsibility for the operation in late Summer, taking over for Mary Ellen Smith who had handled the position since the building opened in 1959.

With such change of experienced staff with persons not as well acquainted with the procedures and problems involved
in scheduling or familiar with the possibilities of the building and capabilities of the staff, it seemed reasonable to assume there would be a significant drop in the number of scheduled events during the year. Final statistics, however, show 3,886 events scheduled, 9 more than in 1962-63, the highest previous year. It is worthy to note this was done even though the manager, Mrs. Scales, was out of the operation for a period of seven weeks because of illness. It is further noteworthy that 287 conference days were scheduled in the Union compared to 261 in 1962-63. I point out this increase because conference scheduling generally involves the most elaborate sort of scheduling arrangements made.

*Some other items of note.*

Among the events scheduled during the year were a total of 1,300 catered events by Food Service, serving 94,000 people. This represents 18,000 more people involved in special services in the Union during this year than in 1962-63, an increase of 24%. An approximate total of 1,166,000 were served during the year in all Food Service areas. Desert Room count alone increased 60% to an average of 148 during this year.

Over a half a million people, 504,000, used the Games Area during 1963-64, actual cash register count increasing
23% over last year. The area extended its closing hour to increase the total hours of open operation to a 103, an increase of 10½ hours each week. This has resulted in an increase in revenue particularly from Bowling. Games rates for Faculty and Staff were reduced to be consistent with student rates for all sports offered in the area.

The Union Business Office estimated it handled $600,000 worth of personal checks in 1963-64. At this time the total uncollected returned-checks amounts to less than $200. This volume of checks does not include checks cashed by the Bookstore, since no particular records are kept up separating personal checks from checks cashed for purchasing books and supplies in that area. It is reasonable to assume that the Union (including Bookstore) cashes $1,100,000 worth of checks a year for its guests and customers.

Though more major modifications are planned, most being completed in the new fiscal year, Room 251, formerly a coat room - check room was converted to a meeting room - office area, and three former bookshelf areas in the Esther Thompson Lounge were changed to showcases and have been used throughout the year for displays largely those related to the Athletic programs.
The addition of a Graduate Assistant to the Program staff aided materially in relieving much of the detail work formerly handled by the Program Advisor, permitting him to spend more time on developmental programs. The Activities Center area was probably the only area not temporarily set back by the increase in volume and general activity.

Fifty-six (56) persons completed the Leadership Training Program sponsored by the Union Program Directorate in conjunction with Sandia Corporation. This number represents an increase of 30 participants over last year, the first year the course was held. In addition to this Leadership Conference held in the Spring, a one-day workshop was held in the Fall for Program Directorate Chairmen. The aim of which was to develop plans for activities for the coming year and discuss such general topics as committee organization and personal leadership.

A total of 118 participated directly in Program Directorate activities this past year compared to 88 the previous year.

New Mexico "Hall of Fame" portraits have been loaned to the Union for display until the appropriate gallery area is ready for permanent display in one of the Capitol buildings in Santa Fe.
Taped and translated interviews about operations of the New Mexico Union and its program were held between Voice of America representatives and a number of Union staff members for a Portuguese Voice of America Program to be used in Brazil.

Some Concerns and Needs.

Recently we have noted more being written regarding the Bureau of Revenue's interest in reviewing the status of tax-exempt groups. This past year the Accountant has worked closely with three Associated Student groups, Town Club, Alpha Phi Omega, and Mortar Board to complete necessary reports to show justification for their particular tax-exempt status. With more attention being given to this particular area by the Bureau of Revenue I feel we may look forward to the possible need to spend some time in this area to obtain a general overall ruling for University of New Mexico Associated Student groups specifically, or for State of New Mexico college organizations and groups generally.

It may be logical to assume a close follow-up to this would be a review of the entire New Mexico Union operation as a tax-exempt operation.
Most significant of the problems brought about by large volume this year has been the obvious need for more space to take care of the number of persons using the building over extended periods as well as, in the past, peak periods. The reassignment of function of certain areas this past year helped to alleviate the problem for the year but it is anticipated that the increased number expected in the coming school year will give us the problem once again.

While certain modifications of structure have taken place there are certain definite needs that have to be considered as projects to be done in the very near future. These include renovation of the Information Desk counter to facilitate speedier service and handling of information; completion of storage shelves in the area behind the bowling pinsetters to provide "dead" storage of accounting-type files; replacement of the remaining discolored ceilings in order that they may be more easily maintained, and placing the Games Area storage in original condition so that the area may be completely utilized. Irregardless of additions to the general structure, these items should be completed just to be able to accommodate the increased needs anticipated this coming year and the year after.
To also handle the high volume now normal in particular areas additional equipment to supplement existing items is going to have to be considered (example: additional grills, ice machine, portable food serving units). Purchase of these items will be able to be justified by the resulting increased revenue and/or decrease in operational expense.

In the Spring of the year a study of anticipated sales volume and corresponding nets to operations was made, projected through the year 1970-71. In developing this study it became obvious that certain building areas have reached, and other areas will soon reach, the "leveling off" point in opportunity to obtain revenue because of the problem of handling peak volume crowds. To see the effect it might have, a 50% increase in present available building space was assumed in fiscal year 1966-67, and corresponding income - expense figures and Bond obligation figures were developed. This study revealed that with increased space available at that time, and assuming enrollment increases furnished by the Registrar could be met, the increased Bond obligation due to increased size of the building could be covered by resultant Bond Fee income and revenue increases within two years after the addition had been completed. This would mean the Bond obligation on the original
building plus 50% additional would probably be totally covered
by Union revenues and Bond Fee income within ten years from
initial opening of the original Union. From that point on,
increasing fees and revenues would more than offset
obligations, and could be used to accelerate the Bond repayment
program or other programs that could be worked out by the
University.

It is particularly critical that consideration of expansion
of the Bookstore be considered at this time because the
Bookstore has reached a point where it is operating very close
to maximum capacity with existing space. Because increased
business will be available, it is highly possible other stores
may be started which not only would have the effect of
decreasing the revenue potential of the existing store but
might even have the side-effect of providing a diplomatic
problem resulting in restraining the University from ever
enlarging its own operation.

Initial work on the general salary and wages survey
program of the Union indicates that positions relative to
each other within the Union still lie within the originally
agreed upon order of classification. However, more work needs
to be done to determine if the Union program still is in line
with the general program of the University, particularly
with regard to supervisory and managerial level employees who, up until the recent year have maintained a fairly stable relationship with other University departments. While there has been considerable growth in volume in most Union areas in which these people are involved, volume which exceeds growth in enrollment and/or workloads of some types of University staff, there is some question as to whether the present compensation still falls within the same realm as relative campus positions.

**CONCLUSION:**

Handling such growth in volume as the Union is now experiencing has unquestionably been a challenge for the Union staff. Being able to rise to the challenge results in further enhancing such growth as well as just meeting current needs.

I feel the present staff has grown and will continue to grow with their increased responsibilities and commitments, and because of this, future growth, while not assured, is certainly expected, --and is approached with a high degree of confidence.

WILLIAM R. BIERBAUM
Director, New Mexico Union
<table>
<thead>
<tr>
<th>NAME</th>
<th>APPOINTED</th>
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<tbody>
<tr>
<td>Jackson, Royal</td>
<td>- - -</td>
<td>September 16, 1963</td>
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<tr>
<td></td>
<td>Assistant Bookstore Manager</td>
<td></td>
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<td>Day, Delmar</td>
<td>October 1, 1963</td>
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<td>Assistant Bookstore Manager</td>
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<td>Trainer, James</td>
<td>May 1, 1964</td>
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<td>Food Service Supervisor-Catering</td>
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<td>Scales, Betty G.</td>
<td>July 8, 1964</td>
<td>- - -</td>
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<tr>
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<td>Information Desk and Scheduling Manager</td>
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<tr>
<td>Smith, Mary Ellen</td>
<td>- - -</td>
<td>July 31, 1963</td>
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<td>Information Desk and Scheduling Manager</td>
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PROFESSIONAL ACTIVITIES OF NEW MEXICO UNION
STAFF MEMBERS - 1963-64

Earickson, Gerald W., Accountant:
Completed University of New Mexico introductory course in Data Processing held Spring semester, 1964.

Henry, Gwinn "Bub", Games Manager:
Recreational Advisor, Region 10 of the Association of College Unions.
Chairman, Region 10 Intercollegiate Tournament held at Boulder, Colorado, February 14 - 15.
Site Chairman, ACU Sectional Billiards Tournament held at the New Mexico Union, April 11 - 12.

Jackson, A. O. "Si", Bookstore Manager:
Elected to the Board of Trustees of the National Association of College Stores for a three-year term.
Program participant, National Association of College Stores Regional Conference held at Dallas, Texas, December 1 - 2.
An article by Mr. Jackson, "A Problem With New Titles", published in December - January issue of College Store Journal based on material given at the Regional Conference.
Program participant, National Association of College Stores National Conference held at San Francisco, April 27 - May 1.
Completed University of New Mexico introductory course in Data Processing held Spring semester, 1964.

Meyers, George, Program Advisor:
Member, National Association of College Unions Committee on the Arts.
An article by Mr. Meyers, "Building a Regional Art Exhibit", published for distribution of the National ACU Committee on the Arts, Spring, 1964.
Bierbaum, William R., Director:
Program participant, National Association of College Unions Conference held at Indiana University, Bloomington, Indiana, April 19 - 22.

Program participant, New Mexico Restaurant Association Regional meeting held at Carlsbad, New Mexico, May 21.

Completed special National Restaurant Association short course in Executive Development held at Bloomington, Indiana, April 20 - 22.

Completed University of New Mexico introductory course in Data Processing held Spring semester, 1964.
The Report of the Placement Bureau
July 1, 1963 - June 30, 1964
H. Maxwell Campbell, Director
During the past year the Placement Bureau handled a total of 3664 registrants seeking full time and part time employment. This figure included 622 industrial registrants, 603 teacher registrants, and 2439 students seeking part time employment while attending school.

Total number of job placements reported to the Bureau during 1963-64 was 2846. This figure included 245 industrial placements, 336 teacher placements and 2265 part time placements, and represents a gain of 8% over last years figure (2656). The fact that only a small percentage of the total number of registrants with the Placement Bureau are still seeking employment indicates other factors which are explained in the succeeding sections of this report in the major areas of responsibility within the Bureau, i.e. industrial and commercial, educational, and part time.
PART I

A. Industrial and Commercial Placement

1. This section of the Bureau handled 622 applicants for employment during the 1963-64 academic year. This figure includes: 281 seniors and graduate students, 110 degree holding alumni, 90 non-degree alumni, 86 wives of students or former female students seeking clerical work, and 55 juniors interviewing for summer work during the recruiting season. Of this total figure, 102 are still seeking employment in one or another of these categories. Although it is a requirement of the bureau that all job applicants notify the bureau of their status when any change is made, this control is impossible to maintain, particularly in the non-technical and alumni fields. The known disposition of the seniors and graduate students may be seen in Tables II and IV, pages 10 and 11.

2. Recruiting Activity. Approximately 371 registrants took part in the industrial interview season, including 281 seniors and graduate students, 55 juniors, and a fluctuating number of degree-holding alumni totaling about 35. Since this activity is conducted mainly for the purpose of placing seniors and graduate students in career positions, Table I, page 9, presents a picture of these registrants by fields. Companies started recruiting in mid-October and continued into May, running approximately a month longer than usual.

3. Company Statistics. See Table II, page 9, for the Number and Types of Organizations Represented on Campus. One hundred eighty-two companies and organizations sent representatives to the campus this year as compared to 175 last year, and conducted 2295 separate interviews, for which 375 interview schedules were prepared. Although 26 companies visited the campus for
the first time, or after a lapse of five years or more, a decrease in the number of federal agencies recruiting on campus all but offset this rise. Observations on the fluctuation of companies recruiting this year are noted under item 7, page 4. Over 400 individual company representatives visited the placement bureau to conduct interview schedules, or fill individual openings, or for public relations purposes.

4. Employment by Industry and Field, 1964. Despite the drop in the number of federal agencies recruiting on campus, the Government category regained first place in the employment field on both the technical and non-technical fronts, although in the technical group this increase is reflected mainly in State Government employment (See Table III and IV, pages 10 and 11).

Although there was only a small increase (21 to 25) in numbers of petroleum companies recruiting on campus, the number of placements rose from 8 to 15, moving this category from fourth to second place in the hiring group (See Tables II and III, pages 9 and 10). Aircraft plunged from first to fifth place as a major employer of our students, dropping both in number of companies recruiting and number of offers extended. This drop can be attributed to the Federal Government's economy program.

Other than an increase in numbers placed, there was no major change in non-technical placement. Most of the problem cases in the non-technical category are found in the Liberal Arts group for the following reasons: (1) very few register until late in the second semester, (2) many have no idea as to their job objective since their liberal arts education frequently has not oriented them toward a career, (3) most of our graduating women are in this category and opportunities are limited as well as the flexibility of most of these applicants and, (4) business and industry in general are not interested
in Liberal Arts graduates. This, despite loud proclamations to the contrary. (See Table IV, page 11).

5. Graduate School Trend. Among all the reasons that seniors may not accept employment, even though they go through the recruiting season, the greatest is the growing trend toward entering graduate school. (See Tables II and IV, pages 10 and 11). The figures indicated on these charts represent students who made their decisions to enter graduate school sometime during their senior year. Those that made the decision earlier did not register with the Bureau. Most of our students continuing their education do so at The University of New Mexico rather than being recruited by graduate schools of other institutions. However, the national trend is toward universities sending recruiters to other schools to interview the top students for graduate school. These university recruiters, in competition with industrial recruiters, lure the students with offers of scholarships, assistantships and various other stipends. This graduate school trend is beginning to be viewed with alarm among many industries, who in general need more bachelor level employees than graduate degrees. This alarm in industry is reflected by the fact that a portion of the Rocky Mountain College Placement Association's 1964 conference program is entitled "Graduate School Myth". However, regardless of the industrial attitude, as long as these same industries continue to pay a premium of not less than $1200 more per year for a Master's degree, graduate schools all over the country will continue to grow in size.

Although literature was received from many graduate schools, only two were represented by recruiters on The University of New Mexico campus.

6. Graduate Salary Information. In the technical fields, the University remains ahead of the national average in salary offers. However, the big
surprise was in the field of Electrical Engineering where no gain was made over last year's University average. Since this is the first time in several years that a large jump in this field was not registered, it represents the first indication of a healthy leveling off in the baccalaureate salary scale (See Table V, page 11). It is interesting to note that in Chemical Engineering with a jump from $597 in 1963 to $618 in 1964, the average accepted salary was an even higher $621; the average accepted in Electrical Engineering is also a bit higher than the average monthly offer with a rise from $643 to $645. This higher average acceptance, however, does not prove out in Mechanical Engineering where the average offer was $612, yet the average acceptance was $607. As can be seen in Table V, page 11, the gap between Electrical Engineering and all other fields of Engineering has begun to close to some extent.

The rise in Business Administration from last year's $472 to $517 this year represents a major breakthrough for our business majors, who usually trail the national average by a large amount.

Although the overall average for the Arts and Sciences made a healthy gain from $416 in 1963 to $549 this year, the portion of this group represented in the humanities fell far behind, money-wise, with a low average of $403. This low figure in the humanities is caused, unfortunately, primarily by the very low salaries offered to graduating women, particularly in the Albuquerque area. As a point of interest, the national survey of salary offers to college graduates is based on offers to male students only, whereas our local averages include offers made to females.

7. Company Recruiting Summary. Two major factors caused the cut-back in recruiting visits by federal government agencies and subcontractors to the
government (aircraft and missile industries) this year: (1) the President's cutting of the defense budget, as well as the general cut-back on all federal employment, and (2) this being a national election year, companies dependent upon government contracts are in a state of uncertainty, and many others not directly dependent upon contracts have a "wait-and-see" attitude prior to any expansion. If all of the regular company recruiters had visited the campus this year, the increase noted on Table II, page 9 would have been much greater.

Not only did the number of companies visiting the campus fluctuate during 1963-64, but the number of offers was lower in comparison to the number of students than in 1962-63. These offers were, in most cases, delayed until near the end of the recruiting season. Little, if any, advance pressure was exerted toward early acceptance which usually presents a problem to those students who wish to wait before making their final choice. Although all of our engineering students (excluding aliens) could obtain positions if desired, their choice was more limited than in past years, and a few accepted jobs because they received only one offer. Exactly how much of this situation is due to the national uncertainty will not be evident until next year in a more normal political climate.

The placement of non-technical students was affected very little by national fluctuations since most of these applicants accept positions far removed from the "contract situation", although some limitation was noted in government agencies such as the Forest Service.

"Equal Opportunity regardless of race, color or creed" became quite a bit more than a mere show of tolerance on the part of company employers. In general, its meaning was not as stated -- in many cases it meant jobs were
available to Negroes only, and in all cases that the companies were parti-
cularly interested in Negro applicants. The pressure to hire Negroes simply
because they are members of a powerful minority bloc, is seen by many place-
ment people as a danger to the status of the educated Negro who faces the
possibility of becoming a part of a quota containing many less qualified
Negroes and further segregating him as part of this quota. The Placement
Bureau insists upon the literal meaning of the equal opportunity statement
and any jobs listed must be open to all who qualify academically. Although
several sets of registration papers were given to Negro students, not a single
one completed registration in the Industrial Section of the Bureau prior to
the end of the recruiting season.

8. Alumni Placement. Over the past five years the Placement Bureau has
increased its alumni service from occasional spot-placements to a major
function of the Bureau. Whereas most seniors and graduate students have
similar problems in their fields, the alumni must be handled on an individual
basis. The three categories in this area are: (1) degree holding alumni,
(2) non-degree alumni, and (3) women seeking clerical positions (these must
be ex-students, students' wives, or University connected). Low salary for a
bachelor's degree was $385 per month and high was $650; master's low $605,
high $950. Only two doctoral alumni were placed. One received a salary of
$1020 per month; the amount was not made available on the other.

Of the 90 non-degree alumni, 24 were placed through the bureau. Low
salary for non-degree placement was $1.25 per hour, and high $450 per month.

Thirty-nine of the 55 placements for degree holding alumni were outside
the Albuquerque area, and most were out of state. All of the non-degree
placements were in Albuquerque. Opportunities for careers were very limited
in Albuquerque during the past year. The trend of local businessmen is toward requiring a degree for practically any job, with salaries offered being well below the national average. This has been a hardship on both the degree holding alumni and the non-degree alumni—most of this latter group dropped out of school because of family responsibilities. However, the supply and demand in the Albuquerque labor market is such that it enables the local businessman to up his requirements and keep his salary offer low and still fill the job. It is hoped that new industries which are expected to move into Albuquerque within the next few years will change this situation.

Of the 86 women seeking secretarial or clerical positions, 35 were reported placed in Albuquerque positions. As far as can be ascertained, salaries for women have not changed in this area over the past ten years. Starting salaries for women at, or above, $300 per month are very rare, and, when listed, usually require qualifications that would draw an additional $150 to $200 per month in most other cities equivalent to Albuquerque in cost of living. Again, this situation can be attributed to the supply and demand in this area.

Figures on all placements are those reported to the Bureau. It is safe to say that many more were assisted through the efforts of the Bureau since the alumni group is the one most inclined to "disappear" when positions are obtained and the Bureau is no longer needed.

Improvement has been made in the value of the monthly News Notes sent to degree alumni. In addition to the listing of jobs available, both local and national, information concerning sources of other listings, and job market information from this and other areas is also included. Some of these alumni also take advantage of the opportunity to request that their files be brought
to the attention of company recruiters even though they are unable to inter-
view on campus. At least one "long-distance" placement was made by this
method and probably others which were not reported. As stated earlier, many
of these alumni take active part in the recruiting season. Collection of con-
fidential references and all other services available to students are also
available to the degree holding alumni.

The academic or professional backgrounds of non-degree alumni and women
seeking clerical positions do not usually warrant the processing of complete
files. This lack is compensated for by actual time given to these individuals
in an attempt to place them by direct contact with employers.

9. Military Data. The United States Air Force, United States Navy, and
United States Women's Army Corps, all sent recruiters to the campus. The Air
Force spent eight days on campus, the Navy six, and the Wac one. The United
States Army, per se, was not represented. The Marine Corps has taken exception
to our policy of interviewing in the Placement Bureau rather than the New
Mexico Union, and so was not on campus this year.

Male students who face a military obligation upon graduation are finding it
easier to investigate the merits of the various services by interviewing in the
Placement Bureau, and both the Air Force and the Navy had better schedules
this year than in the past. The Air Force, through advertising and direct
publicity, prepared the ground better for their interviews than did the Navy
and this proved advantageous since the Air Force obtained more applications
(37) for the Officers Training Program than those received by the Navy (12).

A total of 39 students entered the service via the AFROTC and NROTC
program. Including February, June and August graduates, 17 went to active
duty with the Air Force and 22 with the Navy.
## INDUSTRIAL STUDENT REGISTRANTS BY FIELDS

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Percentage increase over 1963: **15%**

### TABLE I

**NUMBER AND TYPES OF ORGANIZATIONS REPRESENTED ON CAMPUS**

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<td>6. Retail, Wholesale Sales Organizations</td>
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<td>7. Chemical &amp; Allied Companies</td>
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<td>9. Finance &amp; Banking</td>
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TABLE III
DISPOSITION OF NON-TECHNICAL STUDENT REGISTRANTS

<table>
<thead>
<tr>
<th></th>
<th>Inves-tigation</th>
<th>Mgmt.</th>
<th>Trng.</th>
<th>Sales</th>
<th>Bus.</th>
<th>Other</th>
<th>Totals '64</th>
<th>Totals '63</th>
</tr>
</thead>
<tbody>
<tr>
<td>Government</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Federal</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td></td>
<td>12</td>
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<tr>
<td>State</td>
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<td>Industry</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>2</td>
<td>4</td>
<td></td>
<td>12</td>
<td>10</td>
</tr>
<tr>
<td>Finance &amp; Banking</td>
<td>1</td>
<td>4</td>
<td>1</td>
<td>3</td>
<td>6</td>
<td></td>
<td>11</td>
<td>11</td>
</tr>
<tr>
<td>Insurance</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Education</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Retail</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
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<td></td>
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<tr>
<td>Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Employed (details unknown)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>4</td>
<td>2</td>
<td>10</td>
<td>5</td>
<td>5</td>
<td>18</td>
<td>55</td>
<td>54</td>
</tr>
</tbody>
</table>

Other Non-Tech. Registrants:

- Still Seeking: 20 (22)
- Graduate School: 10 (9)
- Military: 4 (7)
- Returning to Native Land: 1 (1)
- Did Not complete degree: 2 (-)
- Housewife: 1 (-)
- No information: 30 (8)

Totals: 123 (101)

TABLE IV

AVERAGE MONTHLY SALARY OFFERS - BACHELOR LEVEL

<table>
<thead>
<tr>
<th>Curriculum</th>
<th>Class of 1963</th>
<th>Class of 1964</th>
<th>National Average*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Admin.</td>
<td>$472</td>
<td>$517</td>
<td>$507</td>
</tr>
<tr>
<td>Engr.-Chemical</td>
<td>597</td>
<td>618</td>
<td>615</td>
</tr>
<tr>
<td>Engr.-Civil</td>
<td>542</td>
<td>576</td>
<td>595</td>
</tr>
<tr>
<td>Engr.-Electrical</td>
<td>643</td>
<td>643</td>
<td>624</td>
</tr>
<tr>
<td>Engr.-Mechanical</td>
<td>597</td>
<td>612</td>
<td>614</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>461</td>
<td>549</td>
<td>No info.</td>
</tr>
<tr>
<td>(Sciences)</td>
<td>544</td>
<td>638</td>
<td>588</td>
</tr>
<tr>
<td>Average</td>
<td>$570</td>
<td>$600</td>
<td>$590</td>
</tr>
</tbody>
</table>

*From July 1964 Salary Survey Report Compiled by College Placement Council

Average monthly salary offer for all fields of engineering: $625
National average monthly salary offer for all fields of engineering: $612

TABLE V
B. Educational Placement

1. The Educational section of the bureau handled a total of 603 active teacher registrants during 1963-64. This figure includes: 212 seniors and graduate students terminating their degree requirements in August 1963, February 1964 and June 1964; 148 alumni registering for the first time with the Bureau; 188 reactivations, and 55 registrants for college placement. Of this number, 336 have been placed in teaching positions. Fortunately, the remaining 267 registrants do not represent an unemployment figure since many of these are "shoppers" (i.e. teachers who are assured of contracts next year, but before signing, are looking around for something better), and others are new graduates who have been required by their college to register with the Placement Bureau even though they do not intend to teach during the next academic year. A breakdown of teacher registrants and placements may be seen in Tables VI through IX, pages 16 and 17. There was an overall increase in teacher registrants of 20% over last year (499 to 603).

2. Increase in recruiting activity. A continued upward swing in number of schools and colleges recruiting on-campus was noted during the 1963-64 academic year. Fifty-seven school systems as compared to 41 last year visited the campus, with 102 school administrators visiting the campus to conduct interviews, or look over files of registrants. California continued to recruit on a more formal basis (with 37 recruiters) than New Mexico (with 18 recruiters). More New Mexico administrators, however, came into the office to check files. The educational recruiters visiting the campus resulted in 477 individual interviews as compared to 384 last year. This figure includes 40 individual interviews on the college level, representing four colleges. The most distant schools represented were the Guam Public
Schools and the College of Guam.

3. Teacher Placement Trends. With the increase in number of registrants, the Placement Bureau became concerned with a drop-off in number of openings listed with the Bureau and a slow-up in the number of registrants receiving contracts by April 1, as compared to the activity during the same period last year. The bureau immediately took action by (1) sending a list of applicants available in the various fields to school administrators for direct contact by them, and (2) requesting lists of possible openings from over 600 school systems. Results from these efforts were very good as reflected in the number of placements, as well as listings received in response. See Table IX, page 17. The percentage of increase over last years placements was 25% (244 to 305).

a. Elementary: In general, the need for elementary teachers continues ahead of the supply. However, the Albuquerque Public School system found this to be a leveling-off year, without the need to staff as many new elementary teaching positions as in past years. This meant that many elementary teachers who would have preferred to work in Albuquerque went elsewhere. The need in Albuquerque for elementary teachers for the academic year 1965-66 is expected, however, to increase greatly, according to the Albuquerque personnel office. Elementary registrants increased from 97 to 110 this year.

b. Secondary: Although the largest number of registrants for any one field continued to be in Social Studies, a field already over supplied, there appeared to be somewhat of a trend toward students majoring in English, or another field less competitive, and minoring in Social Studies. It was noted that there was no increase in the actual number of new graduates majoring solely in Social Studies, which indicates that good counseling is being given
in the College of Education. Some Social Studies majors have moved into the upper elementary field where they can teach on provisional credentials while working for full elementary certification. This is made possible by the extreme shortage of elementary teachers in the small communities. Others in Social Studies who are unable to find teaching positions in their fields, have turned to business as a career.

A shortage of teachers is still evident in the fields of German, girls' physical education, mathematics, and home economics. There was, however, an increase in the number of mathematics teachers registered with the bureau (21 this year as compared to 12 last year); the five not placed by the bureau are probably "shoppers" as jobs are plentiful in this field. Sciences and English are no longer in the shortage fields, as the supply and demand are apparently becoming somewhat equalized.

c. College Trends: The number of registrants for college teaching positions increased from 39 last year to 55 during 1963-64. Fortunately, there was a corresponding increase in the number of openings on the college level listed with the Bureau and 35 positions were filled through the Bureau (See Tables VI and IX, pages 16 and 17.

Many advanced degree registrants who are, or can be, certified for public school teaching double register for both public school and college placement. There is a practical reason for this in addition to the prestige quality attached to college teaching. This other reason is the tendency of many school systems, with the exception of those in California, to hire as many bachelor candidates as possible before considering the higher cost of the advanced degree. Except in the field of administration, a doctoral degree candidate who wishes to enter the public school field may find it very
difficult to obtain a position. This does not mean that advanced degrees are not desirable, particularly after a career in public school teaching has been established. The situation has increased, however, the registration in the college placement area of the bureau.

A total of 40 college interviews were conducted on campus, representing four colleges; two from California, one from Missouri, and one from the Island of Guam.

4. Geographic Preference: As in the past, the greater percentage of our teachers preferred positions in the Albuquerque system (159) and New Mexico (65) above other geographic areas. California was second choice with 56 placements. In all, our teachers accepted positions in 22 states and one foreign country.
REGISTRANTS BY MAJOR TEACHING FIELD (New and Reactivations)

PUBLIC SCHOOL

Elementary------------------- 110

Secondary
Social Sciences----- 101
English------------- 69
Sciences------------- 43
Languages----------- 40
Industrial Arts----- 17
Music--------------- 20
Business Educ.------ 23

Administration-------- 10
Arts & Crafts----------- 17
Home Economics--------- 13
Mathematics----------- 21
Psychology------------ 2
Library--------------- 1
Counseling------------ 7
Special Educ.-------- 1

Total--------------------- 548

COLLEGE

English--------------- 12
Art------------------ 5
Sciences------------- 3
Education------------ 2
History------------- 10
Languages----------- 7
Psychology-------- 2

Mathematics-------- 3
Guidance----------- 3
Physical Educ.------ 6
Music------------- 2
Administration----- 2
Geology----------- 1

Total--------------------- 55

TABLE VI

TEACHER REGISTRANTS

New Registrants:
Public School----------------------- 360
College------------------------------- 18

Reactivations:
Public School----------------------- 188
College------------------------------- 37

Total number registered 603
Percentage of increase 32%

TABLE VII
### TABLE VIII

**PLACEMENTS BY MAJOR TEACHING FIELDS**

<table>
<thead>
<tr>
<th>Field</th>
<th>Elementary</th>
<th>Secondary</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>94</td>
<td>40</td>
<td>6</td>
</tr>
<tr>
<td>Sciences</td>
<td>20</td>
<td>20</td>
<td>2</td>
</tr>
<tr>
<td>Social Science</td>
<td>26</td>
<td>26</td>
<td>1</td>
</tr>
<tr>
<td>Languages</td>
<td>22</td>
<td>22</td>
<td>1</td>
</tr>
<tr>
<td>Music</td>
<td>14</td>
<td>14</td>
<td>2</td>
</tr>
<tr>
<td>Physical Education</td>
<td>21</td>
<td>21</td>
<td>5</td>
</tr>
<tr>
<td>Art</td>
<td>8</td>
<td>8</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics</td>
<td>16</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>Industrial Arts</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Business Educ.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Home Economics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Counseling</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administrative</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Educ.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>94</td>
<td>111</td>
<td>11</td>
</tr>
</tbody>
</table>

### TABLE IX

<table>
<thead>
<tr>
<th>Field</th>
<th>Elementary</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Art</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Sciences</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Languages</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>History</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Physical Educ.</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Administrative</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Psychology</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Geology</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>336</td>
<td>21</td>
</tr>
</tbody>
</table>

**Total Placements All Levels**: 336
C. Part-Time and Summer Placement

1. Number of Registrants: During 1963-64, the Placement Bureau registered a total of 2439 applicants for part-time and summer employment. This figure includes the general group of students who seek jobs on or off campus to supplement their school expenses, the student aids who work on campus, and the students seeking full time summer work (except for student aid, this service is available to students' wives or husbands, as well as the students themselves).

2. Placements: A total of 2265 positions were filled through the Placement Bureau during the past Fiscal Year. Students often obtain more than one position in the course of a year by taking spot jobs such as yard work, inventory, or babysitting in addition to a permanent part time job. Part time jobs are available to all of the registrants and those who do not obtain positions are those who are the most self-limiting in the type of position they will accept. Unfortunately, because of the low payment offered for most part time jobs, it is very difficult for a student to make all of his expenses by means of part time work.

3. Student Aid: This portion of the bureau placed students in fifty departments and offices of the University for a total of 255 positions. Student Aids worked approximately 34,800 hours at an hourly rate of pay of 85¢. Students must have a genuine financial need and must meet certain scholastic requirements to be eligible for participation in this program.

4. Full Time Summer Work: Many technical majors start looking for summer employment during the fall semester by means of the recruiting season. Others seeking camp, national parks, or government jobs began their search early in the spring semester as soon as notices were received in the Placement Bureau.
Books and pamphlets listing summer possibilities are also made available to interested students. Local positions are not listed with the bureau until shortly before or after the end of the spring semester. Because of the fact that most of the positions are obtained through direct correspondence between employer and applicant, only a small number of the total placements are reported to the bureau. The technical students obtain the better paying jobs, with salaries up to $550 a month. Because of the work involved in obtaining a summer job, and the national competition for many of them, only the most persistent students obtain positions. There are never enough local summer jobs to meet the demand for students who wish to stay in Albuquerque.

5. Publicity: The Placement Bureau continued its practice of sending out news stories to the Lobo concerning jobs available to students -- unfortunately the Lobo did not always print them. Notices were also posted prominently about the campus when the situation warranted it. Notices were also sent to the membership of the Chamber of Commerce, as well as radio and TV announcements designed to increase employers' awareness of the service offered by the bureau.
PART II

PLANS AND RECOMMENDATIONS FOR THE FUTURE

1. Physical Facilities. As stated in previous reports, the Placement Bureau is the main, if not the only, impression that company representatives obtain of the University -- it forms the showcase for graduates from which many are selected each year for career employment. This showcase is a converted barracks building.

The needs of the Placement Bureau are the same as those listed in last year's report as follows: a building, or space in another building, that would insure a minimum of 15 interview rooms, a library room for company and school literature, an area in which to handle part time employment separate from the main waiting room, a railed off area for secretarial and clerical help that would not cut down on waiting room space, a separate room with comfortable chairs and coffee facilities in which recruiters can relax when they have a break in their interview schedules, as well as office space for the Director and Assistant Directors.

2. Staff Requirements. The Placement Bureau is very gratified in having received approval for further staffing for the coming year which will include a full time as well as half time addition to the staff. However, only a glance at the amount of work handled in the various sections of the Bureau is needed to appreciate the need for even further help. The following graph will show the present staff and needs to complete this staff.
Proposed Placement Bureau Staff
(Positions not filled but needed are in capital letters)

<table>
<thead>
<tr>
<th>Position</th>
<th>Full Time (as of July 1964)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Director</td>
<td></td>
</tr>
<tr>
<td>Secretary</td>
<td></td>
</tr>
<tr>
<td>Assistant Director</td>
<td></td>
</tr>
<tr>
<td>Industrial &amp; Commercial</td>
<td></td>
</tr>
<tr>
<td>Part Time Placement</td>
<td></td>
</tr>
<tr>
<td>Educational Placement</td>
<td></td>
</tr>
<tr>
<td>ASSISTANT DIRECTOR</td>
<td></td>
</tr>
<tr>
<td>Secretary</td>
<td></td>
</tr>
<tr>
<td>Student Aid</td>
<td></td>
</tr>
</tbody>
</table>

a. Secretary directly responsible to Assistant Director, Industrial and Commercial Placement: At the present time, the Assistant Director for I. & C. is doing 90% of all clerical typing and records necessary in this section, in addition to the major responsibility in this area of counselling and placing students and alumni in career positions, as well as dealing directly with employers and recruiters. Although help for her is obtained on a "time available" basis from other members of the staff this has proven inadequate. A secretary, directly responsible to her, is needed to take over the clerical duties, and direct the student aid assigned to this area in her filing and use of duplicating machinery.

B. Assistant Director, Part Time Placement. The secretary in this section is now responsible for all duties which are involved in the placing of students in part-time jobs while they are attending school. This secretary will be changed from half time to full time in July, 1964. However, her time will
be filled with receiving part time listings by phone, contacting students, checking the status of part time jobs to see if they have been filled, and making out referral cards for students to take to employers. She will not have the time to counsel each student who registers and find out what his needs are, or do any follow-up work on placements. She does not have the time to make contacts with employers, or give individual attention to hardship cases by initiating direct contact with employers herself. These duties, for which she does not have the time, are of a nature which should be handled by an Assistant Director. Better service could be given to both students and employers if an Assistant Director could be appointed for this position.

The organization described above is presently in being at many other placement bureaus which have been visited by the Director. The primary difference is that the vacant positions on the above chart are filled at other institutions. Such positions being filled in the not too distant future will bring us to a point where we will be able to serve adequately the ever-increasing enrollment and the resultant increasing sizes of graduating classes.

PART III

A. Staff Appointments. The following individual was appointed to the staff of the Placement Bureau during the year ending June 30, 1964:

Susan Conlon (half time) June 1, 1964

B. Staff Separations

George Meacham (half time) June 1, 1964

Miss Conlon was a replacement for Mr. Meacham who was terminated at the request of the Director.
PART IV

Outside Professional Activities

A. High School Relations During the 1963-64 Academic Year. The Director of Placement served as the University's representative to the Travelling Committee of the Coordinating Council of Colleges and Secondary Schools in the State of New Mexico. In this capacity he assisted in the development of the itinerary for the annual College Day Programs conducted in high schools throughout the state.

During the conduct of the College Day Programs, the Director represented the University to the senior classes of fifty-four high schools. This representation included speaking to groups and participating in both group and individual counseling where high school seniors were concerned. In many schools special talks were made to sophomore and junior classes also.

In addition to these activities, the Director was responsible for the annual High School Senior Day which was conducted on campus on Saturday, March 14, 1964. This was the most successful Senior Day yet conducted. Approximately 600 seniors were in attendance. These students represented thirty-nine New Mexico high schools, one Colorado high school, and one Texas high school.

B. Professional Activities. During the month of June, 1963, the Director of Placement spent two weeks visiting Placement Bureaus in Colorado, Utah, and California. The itinerary for this trip was planned in such a manner that the Director was able to visit not only Placement Bureaus, but also to travel through school districts which recruit teachers from our campus. As a result of visiting these areas, the Director has found himself in a better position to counsel teachers who have received offers of employment from these various areas.
Both the Director and the Assistant Director are active members of the Rocky Mountain College Placement Association. This is the regional professional organization for this area, and along with seven other regional associations in the United States and Canada, comprises the College Placement Council.

The Director and Assistant Director both attended the annual conference of the Rocky Mountain College Placement Association in Denver, Colorado, during the first week of October, 1963. The Director has served as Chairman of the Membership Committee for the State of New Mexico. In this capacity he has been responsible for the addition of many new members in the Association.

During the second week of December, 1963, the Director was a guest of Mountain States Telephone and Telegraph Company at that organization's main office in Denver. The purpose of this visit was to provide placement directors in the Rocky Mountain area with a greater familiarity of the operations of the Telephone Company. The ultimate in this familiarity is to enable the placement directors to provide better counseling to students concerning the opportunities available with the Telephone Company.

In connection with the 75th Anniversary of the University, the Director has organized and operated a Speakers Bureau. This Bureau has provided speakers for many local, as well as out of town, organizations since its inception. This function will continue to operate for the balance of the calendar year, 1964.

Miss Gra'Delle Duncan, Assistant Director, delivered an exceptionally fine talk to a large meeting of the Personnel Women of New Mexico. Miss Duncan spoke most effectively concerning the efforts of the United States
Employment Service to usurp the function of the college placement bureaus on a nationwide basis.

In addition to the above outside activities, the Director is an active member of the Albuquerque Armed Forces Advisory Committee. The members of this committee are selected from among military personnel stationed in the local area and from local civilians who are in positions of leadership. The purpose of this committee is to develop and promote ways and means of improving the present good relationship existing between the Military Establishment and the civilian community.
THE REPORT OF THE STUDENT HEALTH SERVICE
July 1, 1963 to June 30, 1964
A. Kenneth Young, M.D., Director

Significant Developments:

In the year under review it is gratifying to note that though still occupying the present building at 720 Yale Blvd. N.E. plans are now nearing completion for moving the Student Health Service to new quarters centrally located on campus, and designed more expressly to fulfill the functions of providing clinical service to the student body.

As can be seen from the appended statistics of the Department's activity throughout the year, the general level of student health has been unusually good, with an absence of epidemic communicable diseases and a lower-than-usual incidence of respiratory infection. In this we have been most fortunate as the physical facilities of the present building have been taxed to the utmost despite the good health picture.

An unusual variation in the normal pattern of Student Health occurred in January 1964, when, following a specifically prohibited type of "hazing", ten students from one fraternity were admitted to hospital with threatening renal failure as a result of muscle tissue breakdown following excessive exercise and fatigue. Valuable assistance was
rendered to the Health Service staff by Dr. Martin Brandfonbrener and Dr. Robert Whang of the Department of Medicine of the Medical School. After discussion with Dean Reginald Fitz, the above physicians were called in as consultants owing to the serious condition of some of these students and the potentially hazardous state of all ten. One student was transferred to the Intensive Care Unit of Bernalillo County-Indian Hospital, where he remained in serious condition for several days. Fortunately, all survived, although recovery was by no means a rapid process. Close cooperation was maintained with the University Administration throughout, and appropriate disciplinary measures were carried out by them with the fraternity concerned. It is hoped that the incident, which might easily have resulted in tragedy, will serve as a serious warning to all similar groups and will alert students to the potential danger of such irresponsible practices.

Staff Changes

It is with regret that the resignation of Dr. Evelyn P. Sturges is reported. A senior member of the medical staff, she had devoted herself to the interests of the students and cared for their well-being for fifteen years in the Student Health Service. For some time in failing health, illness ultimately forced her to suspend her activities in
the latter part of 1963 and her resignation, effective June 30th was accepted by the Board of Regents.

Grateful acknowledgment is made for the valuable help given by the regular part-time staff physicians of the Health Service, enabling us to continue the effective work of the Department during Dr. Sturges' absence.

Dr. Ian L. Shand commenced his duties as full-time physician in the Department in August 1963 and has shown the same efficiency and enthusiastic cooperation which he demonstrated in the Health Service at the University of British Columbia, Canada.

Arrangements have been completed for the appointment on July 1, 1964 of Alice G. Brandfonbrener, M.D. as staff physician on a half-time basis, and of Jack M. McCabe, M.D. as full-time staff physician, effective next September 1st.

Dr. Brandfonbrener, who has been associated with the Health Service in recent months on a part-time basis is a graduate of Columbia University. Dr. Jack M. McCabe, a graduate of the University of Oklahoma, brings to us considerable experience, both from the military and several years of medical practice in Alamogordo. The addition of these physicians to the Health Service staff will be most welcome and will enable the Department to maintain a high standard of clinical service to the student body.

Mr. James N. Day, Clinical Laboratory Technician, resigned from the staff in May 1964 to take an appointment
elsewhere. Thanks to the helpful cooperation of Van Atta Laboratories, all necessary laboratory work was continued without interruption and a temporary technician was obtained until the end of the academic year. It must be noted that arrangements have been completed to appoint Mrs. Rita Thompson (B.S. Medical Technology, Oklahoma State University) as full-time Clinical Laboratory Technician effective 1st July 1964.

A welcome and necessary addition was made to the nursing staff in the person of Mrs. Anetta Fuller, R.N., who joined the Department on February 1, 1964.

Outside Professional Activities of The Health Service Staff

Professional Meetings and Conferences Attended.

Drs. Young and Shand were privileged to attend the Annual Conference of the American College Health Association in Denver in April 1964, participating in the sections on Administration and Athletic Medicine respectively, as well as other committee activities. Dr. Young also completed his second term on the Council of the Association. The Director once again represented the University of New Mexico at the Annual Meeting of the State Coordinating Committee on School Health in Santa Fe on April 6, 1964.

Dr. Burress attended the meetings of the American College of Surgeons held in San Francisco in November 1963 and the Annual Meeting of the New Mexico Medical Society at Carlsbad,
New Mexico in April 1964.

Dr. Jerome Greenblatt, who is also Bernalillo County Coroner, participated in the Conference of the National Association of Coroners at St. Louis, Missouri in August 1963.

Dr. Williams attended the Annual Meeting of the Southwestern Medical Society at El Paso, Texas in November 1963, and in March 1964 he took part in the Conference of the Southwestern Clinical Society in Dallas, Texas, and the Annual Meeting of the New Mexico Thoracic Society at Las Cruces in April 1964.

Professional Appointments, etc.

It is gratifying to report that Dr. Burress was appointed to the Board of Governors of Bernalillo County Medical Society and that Dr. Williams was elected President of the New Mexico Thoracic Society. Dr. Williams also received appointments to the staff of the University of New Mexico Medical School as Associate Instructor, and to the Veterans' Administration Hospital in Albuquerque in the capacity of Consultant in Chest Diseases. Dr. Young was appointed Consultant in Health Service Planning to Eastern New Mexico University at Portales, and also Chairman of a special State Committee on the Health Screening of Prospective School Teachers in New Mexico.
Professional Papers Presented by Staff Members.

Dr. Williams, as guest speaker at the Miners Hospital Staff Meeting in Raton, New Mexico, spoke on "Anti-Coagulant Therapy" in May 1964, and also presented a paper on "Acute Myoglobinuria" at the Regional meeting of the American College of Physicians in Albuquerque last December.

Dr. Young presented a paper on "Current Trends in College Health Services" as key-note speaker at the State Conference on College Health held in Santa Fe in September 1963.

Among special studies currently being undertaken by members of the Health Service Staff, Dr. Greenblatt is making an exhaustive investigation into the causal factors involved in one-car automobile accident fatalities.

Staff Publications During the Year.

"Privileged Communication in Relation to Parents and University Personnel"
A. Kenneth Young, M.D.
Journal of American College Health Association
February 1964 Volume 12 No. 3

Acknowledgments:

As in previous years the Director and Staff of the Student Health Service most gratefully acknowledge the continuing support and encouragement of the many Officers and Departments of the University, whose warm cooperation has greatly assisted the work of the Department throughout the year.

Respectfully submitted,

A. Kenneth Young, M.D.
Director
STATISTICAL REPORT
1963 - 1964

STUDENT ENROLLMENT

<table>
<thead>
<tr>
<th>Student Registration</th>
<th>(1962-63)</th>
<th>1963-64</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Registration</td>
<td>(8642)</td>
<td>9494</td>
<td>+ 9.8%</td>
</tr>
<tr>
<td>Regular Students Eligible for Health Service</td>
<td>(6185)*</td>
<td>6969*</td>
<td>+ 12.7%</td>
</tr>
<tr>
<td>Summer Session</td>
<td>(3191)</td>
<td>3519</td>
<td>+ 10.3%</td>
</tr>
</tbody>
</table>

NOTES

* To the above must be added an average of 60 Peace Corps trainees per month for twelve months in 1963-64
It must be noted that during the previous year (1962-1963) there was a sharp epidemic of streptococcal throat infection resulting in 518 cases, 944 M.D. consultations, 1136 Nurse consultations, and 2,080 total visits to the Health Service. The figures for 1962-63 have been corrected accordingly in order to arrive at a valid percentage comparison.

<table>
<thead>
<tr>
<th></th>
<th>(1962-63)</th>
<th>1963-64</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total visits to Health Service</td>
<td>(10888)</td>
<td>12550</td>
<td>+ 15.3%</td>
</tr>
<tr>
<td>Total consultations by Health Service M.D.'s</td>
<td>(7485)</td>
<td>8820</td>
<td>+ 17.9%</td>
</tr>
<tr>
<td>Total number of patients seen by Health Service M.D.'s</td>
<td>(4781)</td>
<td>5632</td>
<td>+ 17.8%</td>
</tr>
<tr>
<td>Physical Examinations - U.N.M. employees</td>
<td>(53)</td>
<td>87</td>
<td>+ 64.2%</td>
</tr>
<tr>
<td>Total cases seen by Nurse only</td>
<td>(2630)</td>
<td>2845</td>
<td>+ 5.4%</td>
</tr>
<tr>
<td>Diathermy</td>
<td>(207)</td>
<td>462</td>
<td>+123.2%</td>
</tr>
<tr>
<td>Ultra-violet</td>
<td>(64)</td>
<td>43</td>
<td>32.8%</td>
</tr>
<tr>
<td>Allergy Injections</td>
<td>(665)</td>
<td>736</td>
<td>+ 10.7%</td>
</tr>
<tr>
<td>Number of Immunizations and Vaccinations Performed</td>
<td>(301)</td>
<td>196</td>
<td>- 35.0%</td>
</tr>
</tbody>
</table>
Division of Psychiatry.

<table>
<thead>
<tr>
<th></th>
<th>(1962-63)</th>
<th>1963-64</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of students seen</td>
<td>(70)</td>
<td>76</td>
<td>+8.6%</td>
</tr>
<tr>
<td>Total number of Interviews and Consultations</td>
<td>(447)</td>
<td>416</td>
<td>-7.0%</td>
</tr>
<tr>
<td>Average number of consultations per student</td>
<td>(6.4)</td>
<td>5.5</td>
<td>-14.0%</td>
</tr>
</tbody>
</table>

The number of students seen represents 1.4% of all students seen by Health Service Physicians.

The number of consultations represents 5.1% of all consultations by Health Service Physicians.

Division of Athletic Medicine (Jerome Greenblatt, M.D.).
(Not included in total statistics)

Number of athletes examined 436
Number of consultations 693
Flu Vaccine and Tetanus Toxoid 463
Games etc. attended by Dr. Greenblatt:

- Varsity Football: 6 Home, 4 Away
- Freshman Football: 1 Home
- Basketball: 15 Home
- Track Meets: 5 Home
**Clinical Laboratory** - (opened first October 1962)

<table>
<thead>
<tr>
<th></th>
<th>(1962-63)</th>
<th>1963-64</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of students seen</td>
<td>(577)</td>
<td>1067</td>
<td>+85.0%</td>
</tr>
<tr>
<td>Number of tests performed</td>
<td>(1510)</td>
<td>3457</td>
<td>+128.9%</td>
</tr>
</tbody>
</table>

**Administration.**

Directors Business Meetings, Interviews, Conferences and Staff Meetings (188) 193

**In-Patient Service**

<table>
<thead>
<tr>
<th></th>
<th>(1962-63)</th>
<th>1963-64</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Admissions</td>
<td>(286)</td>
<td>360</td>
<td>+25.9%</td>
</tr>
<tr>
<td>Number of Patient Days</td>
<td>(789)</td>
<td>820</td>
<td>+3.9%</td>
</tr>
<tr>
<td>Average Days/Patient</td>
<td>(2.8)</td>
<td>2.3</td>
<td></td>
</tr>
<tr>
<td>Average Patients/Day</td>
<td>(2.2)*</td>
<td>2.2</td>
<td></td>
</tr>
</tbody>
</table>

*Typographical error from 1962-63 report now corrected as above*
**Relative Incidence of Disease and Conditions Seen.**

(International Classification - abridged)

<table>
<thead>
<tr>
<th>Category</th>
<th>1962-63 (%)</th>
<th>1963-64</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diseases of the Respiratory System</td>
<td>47.0%</td>
<td>35.4%</td>
</tr>
<tr>
<td>Accidental Poisoning and Violence</td>
<td>15.4%</td>
<td>19.9%</td>
</tr>
<tr>
<td>Diseases of Skin and Cellular Tissue</td>
<td>9.7%</td>
<td>11.5%</td>
</tr>
<tr>
<td>Diseases of Digestive System</td>
<td>8.7%</td>
<td>8.3%</td>
</tr>
<tr>
<td>Emotional Disorders</td>
<td>2.4%</td>
<td>2.0%</td>
</tr>
<tr>
<td>Infectious and Parasitic Diseases</td>
<td>1.5%</td>
<td>1.6%</td>
</tr>
<tr>
<td>Disease of Genito-Urinary System</td>
<td>1.9%</td>
<td>2.2%</td>
</tr>
<tr>
<td>Diseases of the Nervous System</td>
<td>.9%</td>
<td>.9%</td>
</tr>
<tr>
<td>Symptoms and Ill-defined Conditions</td>
<td>4.0%</td>
<td>7.2%</td>
</tr>
<tr>
<td>Other Conditions</td>
<td>8.5%</td>
<td>11.0%</td>
</tr>
</tbody>
</table>
General Responsibilities of the Personnel Deans

The primary duties of both Personnel Deans are, in general, the same as over the past several years: counseling for students, maintaining personnel records, assisting and advising the social and honorary student organizations, coordinating the scholarship and loan programs of the University, working with the residence halls and their staffs, supervising the personnel office staff and office procedures, and working in a supervisory capacity to the housemother staff of both fraternities and sororities.

The various members of the personnel staff work with the following groups: Alpha Phi Omega, Associated Women Students, Mortar Board, Blue Key, Chakaa, Interfraternity Council, Panhellenic Council and Panhellenic Association, Junior Panhellenic Council, International Club, Junior Interfraternity Council, Las Campanas, Spurs, Town Club, Vigilantes, and World University Service. The Personnel Deans continue to work with the Activity Director concerning social organizations and social events.

Both the Dean of Women and the Dean of Men have had an additional load the past two years in student counseling. It seems that more students have been coming into the office for help in resolving some of their personal problems. In the event this load continues to increase, there will be need for added personnel to the staff of both the Deans of Men and Women.

In addition, the Student Personnel Deans have been trying to revise the work done in the general office. For quite some time the
procedures may have seemed to be unnecessary and out-of-date. As the University continues to grow, certain responsibilities previously carried by this office are no longer the jurisdiction of the Student Personnel Deans. With the new data processing from the records office, the Student Personnel Deans can streamline their procedures for the material that they will need to have available pertinent to student records, etc. By streamlining these procedures, the time saved should enable us to keep up with the demands for at least the time being.

Student Housing Area

Building upon the statements on housing given in the 1961-62 Annual Report, it is felt that much headway has been made during the 1962-64 years. During this period, the residence halls for men and residence halls for women have seemed to grow closer together through a more fundamental philosophy, as displayed by the staff of both men's and women's halls. With the continued emphasis placed upon the encouragement of an attitude of responsibility within each resident toward himself and the rights and welfare of others, with the developing of much more group consciousness and group unity, with the bringing about of more awareness in self-worth, self-reliance and self-discipline, and with the encouragement of and provision of opportunities for self-expression in both individual and group participation, it is believed that the women's residence halls along with the men's have made tremendous strides in their over-all educational functions.

As was stated in the last report, the men's residence hall program has continued to accomplish these goals in that the number of returning students has increased, that there seems to have been greater participation in residence hall and campus government, that interest has been displayed in the development of student projects within the men's halls, and that
greater numbers of men continue to participate in both intramural and social event programs.

The women's residence hall program has been changed to an almost unbelievable degree over previous years. The two Personnel Coordinators have been able to achieve many positive responses to their programs from the students in areas of social culture, scholarship, and student government. For the first time last year a new approach was taken with the Standards Board for the handling of discipline problems of women students. This approach seems to have been quite readily accepted by the women students who had the opportunity to be exposed to it and its philosophy. At the beginning of the school year the students did not understand that their rules, for the most part, depended upon their own degree of maturity and responsibility. Therefore, at the beginning of school there was much talk about women students going in and out through windows and staying out past hours. As the residence halls' Standards Board began to take effect, this behavior was noticeably decreased, and the Dean of Women began working with the A.W.S. Judicial Board along these same lines. Toward the end of the 1962-63 school year, and with the elections of new officers in the residence halls, the Personnel Coordinators and the old hall officers worked on an orientation program for the new hall officers. This was the first time such a program had been set into motion, and it was quite well embraced by the new women officers and many of the old officers. Again, the same basic philosophy and goals were stressed with all officers for the 1963-64 year which had been stressed with the students working on the Standards Board and the newly established referral boards in both Zia and Zuni wings. In general, many changes have come about this year in a new direction to the extent that optimism prevails and morale continues to be high.
The general staffing of the residence halls includes twenty-six (26) men residence assistants and twelve (12) women residence assistants. Each residence assistant is responsible to and receives supervision from full-time staff members in residence and, in turn, from the Student Personnel Deans. Their duties and responsibilities have been outlined in the previous report for the year 1961-62. Continued stress has been given to these same responsibilities in their working relationship with students and staff.

In conclusion, since the employment of the new director of housing in February, 1963, much progress has been possible through the tone he sets, many more accomplishments have been profitable through his vision, his understanding, and his ability to relate well to both students and staff. It is hoped that this arrangement can continue for a number of years, since it allows the freedom necessary for expansion and for growth.

Foreign Students

As anticipated, there was a substantial increase in the number of foreign students enrolled at the University during the 1962-63 academic year. Throughout the 1962-63 year there were 165 to 175 students in attendance. Latin America and Asia had the largest representation with approximately the same number from each area.

Continued encouragement was provided by the University to a number of foreign students through scholarships. Approximately thirty students received awards; thirteen of these received full tuition and fee scholarships; two received tuition fees, room and board; and twelve to fifteen received partial tuition scholarships.

A high percentage of the foreign students held part-time jobs. It probably was as high as 50 or 60 percent.
Much of the free time of the foreign student is spent in speaking to groups in this area and throughout the State. Students again went to Farmington, Grants and Santa Fe to fulfill speaking engagements. Four were on the program at the District Convention of Rotary in Carlsbad, and without exception, they all made very favorable impressions. The International Club provided excellent programs throughout the year. The Club instigated the first International Festival at the University of New Mexico. Booths were set up by the students to depict different countries and their cultures. During the evening, entertainment was provided which included songs and dances of the various countries. The Festival was highly successful and plans are to make it an annual event.

An opportunity to obtain a Foreign Student Advisor on a half-time basis presented itself. With the continued growth in the program, this seemed advisable. The program has a new director, separate offices, and an expansion of the services provided.

**Scholarships and Loans**

Estimated figures for 1963-64 indicate that the financial aid program at the University of New Mexico has nearly doubled in the past two years. During 1963-64, moneys involved in the program reached $665,000. This compares with $362,000 for 1961-62 and $573,000 in 1962-63. The number of student participants has grown accordingly.

There is every indication that all areas will continue to expand during 1964-65. Figures available now indicate that the National Defense Student Loan program alone will increase by more than $50,000 during the current year. Several new scholarships have been established, and more are in the offing. Increased public knowledge regarding United Student
Aid Funds, Inc., and the growing number of banks enlisting for participation indicate that USAF loans will continue to increase. In addition, the Medical School has entered a contract with the federal government to inaugurate a Student Health Professions Loan program during the year, and the College of Nursing plans to enter a similar program before the year is out. Presumably, this office will assume at least partial responsibility for these additional programs.

The following table shows, in round dollar amounts, the program's growth during the past three years:

<table>
<thead>
<tr>
<th></th>
<th>1961-62</th>
<th>1962-63</th>
<th>1963-64</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scholarships</td>
<td>$195,000</td>
<td>$331,000</td>
<td>$400,000</td>
</tr>
<tr>
<td>USAF</td>
<td>none</td>
<td>$46,000</td>
<td>$70,000</td>
</tr>
<tr>
<td>NDEA</td>
<td>167,000</td>
<td>196,000</td>
<td>195,000</td>
</tr>
<tr>
<td>Total Program</td>
<td>362,000</td>
<td>573,000</td>
<td>665,000</td>
</tr>
</tbody>
</table>

As the various facets of the financial program expand, so do the responsibilities of the financial aid office. New scholarships can be adapted to the current system with relative ease, but duties regarding the loan programs are multiplying rapidly. This office at the present time has the responsibility of loan collections as well as fund disbursements. Consequently, each graduating NDSL recipient activates a file which must be dealt with in various connections (billings, computations, record maintenance, etc.) for a ten-year period and, in a number of cases, longer. One account became "active" in June, 1959, as compared with 119 in June, 1964. At present, 544 accounts are on an active basis, and an estimated 300 more will become "live" during the present fiscal year. Thus, great increases in collection responsibilities loom larger and larger.
Of eminent concern are space and staff shortages. The present staff is forced to spend an excess of time and effort on loan matters after recipients have graduated. It would seem that most of this time could be better spent on need analysis, academic examination, and administration of funds to current students.

Recommendations

It is recommended that a complete study of the Scholarship and Loan Program be made. This should concern not only immediate needs, but long range objectives should be outlined and the manner in which they are to be accomplished. The work load in this area is far greater than can be handled with present personnel. The deadline on applications for scholarships and loans should be changed. The present deadline makes it almost impossible to process applications until late in the summer. Notification of the recipients, therefore, has been delayed. In some instances notification has been made so late that the recipients have had to make other plans and have been lost to this university.

With an anticipated enrollment of more than 12,000 students within the next two years, additional personnel will be needed in this office, especially with regard to the Dean of Women's staff. It is hoped that an additional assistant to the Dean of Women may be added to the 1965-66 staff.

While the primary responsibility for foreign students does not lie in this office, a considerable amount of time is spent in advising these students. With an increasing number of students whose homes are outside the United States enrolling at the University, it is hoped that a full-time advisor may be employed.
Staff Changes

The following staff members submitted resignations during the past biennium:

Mr. Charles Carder, Personnel Coordinator of Men's Housing

Mr. John Corker, Director of Housing

Mrs. Martha Hill, Financial Aids Secretary

Miss Willene Paxton, Assistant Dean of Women

Mrs. Dorothy Pratt, Secretary to the Dean of Women

Replacements and additions during the biennium are as follows:

Miss Gladys Lewis, Secretary to the Dean of Women

Miss Margaret Nolte, Associate Dean of Women

Mr. Bobby J. Poole, Personnel Coordinator of Men's Housing

Mrs. Jeanette Preketes, Secretary

Mr. Fred Reagan, Assistant Dean of Men and Chairman of Scholarships and Loans

Mr. E. James Smith, Director of Housing
Developments during the academic year 1963-64.

The Office of the Foreign Student Adviser of the University of New Mexico was opened in August, 1964, taking over work previously done first by Dean Sherman E. Smith and, more recently, by Dean William M. Chase. The office has been open half-time during this period and staffed by the Foreign Student Adviser and a secretary.

Two-hundred and five students from 65 countries registered during the Fall Term, and 218 from 69 countries during the Spring Term; during each term there were several more foreign students at the University who did not register but who were working on advanced degrees. Of the 205 registered during the Fall Term, there were 142 undergraduate and 63 graduate students, engineering students outweighing other majors. During the Spring Term, the distribution was much the same. Approximately one-sixth of these students hold scholarships from their governments or the United States government and private United States agencies, among them AFME (American Friends of the Middle East), the African-American Institute, AID (Department of State Agency for International Development), ASPAU (African Scholarship Program of American Universities), IIE (Institute of International Education). A number more receive University of New Mexico scholarships, such as the Latin American Desk Scholarships, or hold graduate assistantships.

There are certain routine day-by-day activities carried out in the Foreign Student Adviser's office. One such activity is advising of students, principally on their programs in English
and financial matters, but also on many miscellaneous matters. Certain forms in connection with visa regulations are routinely handled in this office, such as the United States INS Forms I-538 (permission to work); I-539 (extension of visa); State Department DSP-66 (exchange visitor) for students and visiting faculty; I-20 on the student's departure from the University. Also there is a certain amount of correspondence with foreign consulates, embassies, banks, and so on, concerning the student's status vis-à-vis their own governments.

A number of reports must be written throughout the year. Some sponsors require individual reports on students once or twice during the academic year, as well as recommendations about scholarship appointments. Some organizations (IIE and NAFSA) request reports from foreign student advisers on statistics, campus programs, and other matters concerning the foreign students and advisement. Occasionally representatives of sponsors pay personal visits to the campus, and appointments must be set up for them with students concerned; an example of such a visit was the IIE interview visit February 24-26, 1964, for which we set up sixteen student appointments with Dr. Ben M. Cherrington in this office.

The Foreign Student Adviser handles certain matters in connection with admission of foreign students and evaluation of foreign student records. Routinely, the Foreign Student Adviser must approve a statement of financial responsibility submitted by each foreign student as part of the admissions procedure and is responsible for determining whether his English proficiency seems of a level to enable him to carry out studies at the University. The Foreign Student Adviser must check the programs of all foreign students to be sure that United States Immigration and Naturalization Service requirements for visas are being complied with. As
Foreign Student Adviser, but also as a member of the Department of English, I have evaluated all credits in English courses for transfer from foreign institutions and handled other matters in connection with the program in English as a second language. A special two-day orientation program, held during regular Fall Term orientation was offered also in Spring Term. UNM students cooperated in the orientation program.

There are several important aspects to be considered in a program of English as a second language: proper evaluation of the student's proficiency in English before admission in consideration of the program in English offered at the admitting institution; diagnosis of his proficiency once he has arrived at the institution for purposes of placement in courses at the institution; a program of courses in English as a second language at the institution he is attending which will enable him to make up deficiencies once he has been admitted. Taking these in order:

(1) Evaluation of English proficiency has been a major problem for all United States institutions because of lack of consistency and validity in the evaluations available from overseas sources (no uniform tests; in many cases, only subjective statements; lack of security of tests used overseas). During the past year a test (TOEFL) has become available for administration through the Princeton Educational Testing Services, at a charge of $10.00 to each student, and given at set times per year. We are now requiring this test as part of the admissions procedure wherever possible (i.e., wherever testing centers have so far been set up); otherwise we are requiring that another standard test (Michigan or AULC) be taken at an official post, such as a USIA center.

(2) Until this past semester, foreign students took the regular English Proficiency Examination required of native speakers of English at the University of New Mexico and followed the same
procedure as native speakers, depending on the score achieved.

Beginning with Fall Term, 1963, I administered a special proficiency test for non-native speakers (at present, the University of Michigan English Language Test for Foreign Students, one of several standardly used in American institutions of higher learning for placement purposes) to foreign students for placement. As of Spring Term, 1964, this has been adopted as standard procedure at the University of New Mexico. A special English program for foreign students, varying slightly from that for native speakers, has been set up for meeting the English language requirement, depending on the results of the test. Because of the special language situation of native-born American Indians in the area, the special English test and program will be used also for this group of non-native English speakers.

(3) With the increasing number of foreign students at the University and more valid testing procedures, more courses in English as a second language are being added to the curriculum in the Department of English. In Fall Term, 1963, two sections of one course, English 3, meeting five times per week, were offered, with one instructor and one assistant per section; also in Spring Term, two sections of a second course meeting three times per week, with one instructor per section, were offered. I coordinated the work in the sections and courses through holding meetings of the instructors. In Fall Term, 1964, the program is being expanded so that three levels of courses in English as a second language will be offered.

One prominent aspect of the work in the Foreign Student Adviser's office is working with foreign student organizations on the campus, such as the International Club, the Club de las Americas, and the Islamic Society. The International Club, of which I act as advisor this year, has been especially active.
Perhaps their most outstanding activity this year was their second annual International Festival, held on February 16, 1964, which featured booths and a program of songs and dances, all of which the students planned and executed themselves, with some assistance on publicity from this office. In 1964-65, the International Club will receive its first allotment ($500.00 for academic year 1964-65) from the Student Council to help with its activities, which it plans to expand next year to include sight-seeing trips and an international dinner.

Another aspect of work with foreign students is acting as liaison between the students and interested members of the community. The Foreign Student Adviser's office routinely receives a number of requests for foreign students to speak. Organizations making such requests during the past year have included Rotary Clubs, religious groups, Extension Clubs, and AAUW chapters in Albuquerque and the surrounding area. The organizations supply transportation for the student speakers and, if contributions are suggested, the organizations make such contributions to the International Club. Approximately 40 such requests for speakers were filled in the past academic year, involving perhaps 60 foreign students, and, on three occasions, me, as Foreign Student Adviser.

We have also initiated a community hospitality program for foreign students, which has two aspects: a Community Committee for Hospitality to Foreign Students, which offers services to University of New Mexico foreign students; and programs in New Mexico (presently Albuquerque and Santa Fe) for the International Student Service, a national organization servicing foreign students traveling away from their universities. The Community Committee for Hospitality to Foreign Students was established in November 1963, with Mrs. Lane Peterson, a member of United Church Women,
as its chairwoman; representatives of other community organiza-
tions, as well as individuals, work with Mrs. Peterson on the
committee. There is now a list of over sixty potential host
families which have filled in applications for our files. A
number of American students on the campus, initially those re-
presenting the Inter-religious Council but now including students
from other organizations and individually interested students,
have also worked with Mrs. Peterson. The hospitality committee
arranged to meet all incoming foreign students in January, 1964,
and helped them to get settled at the University. It also now
has a growing collection of household items to lend to students
who arrive without such effects as dishes, cooking wares, blan-
kets, and so on. A number of students who arrived without accom-
modations were kept overnight on arrival by families. There were
also "hospitality desks" at the airport and bus stations, manned
by students, to meet any students who arrived without notice.
During the past term, students have been assigned to host families,
who invited their students to their homes, especially during Easter
recess, and took them on sight-seeing trips. On May 17, 1964,
this office and experienced members of the Community Committee
held our first two-hour orientation program in the New Mexico
Union for new members of the Committee who had registered with
us but who had not yet entertained students. During the summer
months, students accepted for the Fall Term, 1964, will be sent
a welcoming form letter from this office (see attached copy) and
will also be contacted by the host families to which they have
been assigned. They will be met on arrival, provided they have
notified this office in advance, and given any necessary assistance.
Groups in Santa Fe, through our official contact person there, and
in Carlsbad have announced that they are prepared to offer our
students home hospitality in both places.
The International Student Service program, hitherto known as the Committee on Friendly Relations among Foreign Students, with a home office in New York, has long been active in the United States, but there had been no volunteer contact person unconnected with the University of New Mexico. This year we found contact persons willing to undertake this work in Albuquerque (Mrs. Milton Brown) and in Santa Fe (Miss Katherine Gladfelter), and these persons are now officially listed in the International Student Service roster. We are in the process of establishing contact persons in Carlsbad and Raton, as well.

Plans and Recommendations for the Future.

1. There are several sorts of programs sponsored by the United States Government, Institute of International Education, and foundations such as the Ford Foundation, in which the University of New Mexico so far has not participated extensively. One such program, discussed at the Workshops for Admissions Officers and Foreign Student Advisers held throughout the United States during the past year, of which I attended the Austin Workshop in February, was the establishment of centralized summer orientation centers, for which funds were available at that time. The primary purpose of these orientation centers would be to give intensive training in English to students planning to study in the United States in the fall term, and each center would service a number of assigned colleges and institutions in its area. To date there has not been such an orientation center in this area, though one may now be in the process of formation. There are also programs in which groups of specialists are sent to a given institution for intensive training -- teachers, teachers of English as a second language, etc. -- for which the University of New Mexico would surely qualify.

2. The program in English as a second language should be expanded. A screening and testing procedure has now been set up, and three
levels of courses will be offered in the fall. An intensive elementary course could well be added and could perhaps service the American Indian students who apply for admission at the University.

3. Some representation funds would help greatly with our work in this office. Although we have been able to obtain permission to use funds for such a purpose from time to time, it would help greatly if we had funds to which we had access without advance notice. I have in mind especially such occasions as visits to Albuquerque by persons from other parts of the state who might be interested in helping us expand our hospitality program, when a luncheon invitation to the Desert Room might be in order. During the past year I have had occasion to issue fewer than a half a dozen such invitations, but it would have helped greatly had funds been available without special permission or without my personally incurring these expenses.

4. Just now, with 213 students as of last semester and an expanding community hospitality program, there is barely office space to carry out the program of the Foreign Student Adviser's Office. In the present office there is not enough seating space for committee meetings of any sort, the need for which is growing as our new community hospitality program, including volunteer students on the campus, expands. Since our community people have no headquarters, there should be desk and filing space for them and the student volunteers to use. Our office has done filing and assembling and stuffing of materials for mailing which volunteer people would have done had there been working space for them. Presently we have a growing collection of household goods which members of the community committee have contributed for use by foreign students; however, it is stacked up on the floor of the office in corrugated paper boxes since there is no storage space.
The same situation exists when students forward packages before their arrival, as is customary, and we also have a number of these in the office now awaiting the arrival of students. Eventually the community committee may have space off the campus; it is customary in many institutions, however, that such space is provided on the campus. Space on the campus, of course, affords some means of control of the program by the institution, and also encourages participation by students.

5. The question of an international house has been raised by some of the leaders among the foreign students. In my personal opinion, there is much to be said for the view that such international houses tend to separate foreign students from the rest of the student body rather than to provide a meeting place for American and foreign students. However, a permanent meeting place for such an organization as the International Club might be established, either in the New Mexico Union or a separate building which would include the Foreign Student Adviser's Office. There should be access to kitchen and dining facilities so that foreign students might entertain American guests, which many of them now find difficult to do.

6. The Community Committee for Hospitality to Foreign Students, which was established this year, seems to be expanding its membership and activities rapidly, and we plan to make the orientation program which we initiated this past May for prospective host families a regular activity. Future orientation programs will probably be longer than the first one and include more activities, such as film showings.

7. The hospitality program seems to be attracting the assistance of students on the campus, and we hope to develop student participation in the program to the extent that we can officially cooperate with more national organizations. One such organization
is the People-to-People program, which offers hospitality to foreign students now studying in their home and other foreign countries while they are traveling in the United States. Now that a full-time secretary has been added to the staff of the Foreign Student Adviser's office (effective July 1, 1964), it will be possible for this office to better coordinate the non-academic activities of foreign students on the campus. We are aiming toward enlisting more participation by American students on the campus and also to cooperate with such hospitality groups already established on other campuses in New Mexico. Among the activities which should be increased are trips to local places of interest and also to Santa Fe, Carlsbad Caverns, and sites of Indian ceremonies, such as Gallup.

Administrative appointments to, and separations from, staff:

Mrs. Mary Jane Cook, Foreign Student Adviser
August 15, 1963

Mrs. Madge L. Brenner, part-time secretary
September 27, 1963 -- February 14, 1964

Mrs. Teresa Salcedo Csanyi, part-time secretary
February 17, 1964 -- June 12, 1964

Mrs. Mary H. Blaine, part-time secretary
June 22, 1964

Outside professional activities of Foreign Student Adviser
(Note: as an Assistant Professor in the Department of English, as well as Foreign Student Adviser, I have taught two courses per semester in the Department of English -- one in linguistics and one in English as a second language -- and a special program in summer term for teachers of Indian- and Spanish-speaking children.)

1. During the past year I attended and participated in the programs of the following professional organizations in the following capacities:

   Speaker, English Language, National Association of Foreign

Reporter, "Tests for Measuring Academic Aptitudes, English Language, etc.", College Entrance Examination Board Workshop on Admission of Foreign Students, February 20-21, 1964, Austin, Texas.

Member of panels on "Inservice Training for Peace Corps Volunteers" and "Methods and Materials for Teaching English as a Second Language," Tucson Conference on Teaching English to Speakers of Other Languages, May 8-9, 1964, Tucson, Arizona.

Invited as speaker on communications at National Association of Foreign Student Advisers (NAFSA) national meeting, April 29-30, 1964, Minneapolis, Minnesota.

2. Off-campus talks and appearances:

Albuquerque Study Group, October 21, 1963.

AAUW Grants, New Mexico, Branch (with students), December 10, 1963.

United Church Women, Statewide Convention, February 12, 1964.

Western Association of Graduate School Deans (appeared with panel of foreign students), February 24, 1964.

Lutheran Women, Bernalillo County, March 21, 1964.

Extension Clubs, Bernalillo County, April 30, 1964.

3. Other activities I have participated in are as follows:

Member of doctoral committee for Allen Davis Clark, Department of Anthropology.

Invited to be consultant in Language and Linguistics (Advisory Committee Staff), Albuquerque Public Schools (in process of organization).

Peace Corps instructor in English, University of New Mexico (temporary, Fall Term, 1963-64).

4. Article, "Harrisanian Coincurrences in Subjunctive Structures with wish."

Attached: Letter sent to foreign student on admission (3 copies)

Badge for hospitality committee (3)
Dear

We are pleased to know that you are planning to enter the University of New Mexico this fall. You no doubt have a number of questions about the University; I hope that I shall be able to answer some of them in this letter.

First, you should plan to be here by September 6. Although classes do not begin until September 14, you should be here in time for the orientation program, which begins with an assembly on Sunday evening September 6. A special orientation program for foreign students will be announced at the assembly. You must consult with your academic adviser and register for courses during the week of September 10. If you wish to be met when you arrive in Albuquerque, let me know your exact means and time of arrival in Albuquerque (name of airplane, train, or bus line; time of arrival; etc.) as soon as you have made your travel plans. It is important that you notify my office well in advance, certainly at least three weeks ahead by airmail, for mail from foreign countries is sometimes delayed, and unless we receive word from you about your arrival, we of course cannot meet you.

In Albuquerque we have a "host family" program, so that each foreign student at the University may be met by his host family or a student from the University; or else, shortly after his arrival he will receive an invitation to the home of his host family. Host families are ready to help the foreign student assigned to them in getting settled and in becoming acquainted with Albuquerque; however, if, for any reason you would prefer not to be assigned to a host family, please let me know, and you will not be assigned to one. Mail may be temporarily sent to you at this address:

Your name
c/o Foreign Student Adviser
University of New Mexico
Albuquerque, New Mexico

Mail will be held until your arrival. After you have arrived, you should notify your correspondents of your own Albuquerque address. If you send baggage ahead of you, you should also use the above address.
As soon as possible after you arrive in Albuquerque, you should come to the office of the Foreign Student Adviser (my office) and let me know that you are here. After that you will receive instructions about registration. You will be assigned to an academic adviser who will help you select courses and make up your program of studies for the semester.

By now, you will have received notice from our Admissions Office that space is tentatively reserved for you in one of the University dormitories. We do this because we realize that the time required to correspond by mail, as well as the difficulty you may have in exchanging your money prior to your actual departure, may delay your making these arrangements for yourself in advance. However, once you are on campus, you will be asked to sign a contract for room and board for the entire school year if you decide to stay in a dormitory. Ordinarily, you cannot be released from this contract except for very special circumstances. As our dormitory space is very limited, we would appreciate hearing from you promptly if you do not wish to stay in a dormitory. However, the following rule stated in our catalog (page 79) may apply in your case:

"All University freshmen whose homes are not in Albuquerque are required to live in the University residence halls for the academic year regardless of social affiliation. All undergraduate women whose homes are not in Albuquerque are required to live in University halls or sorority houses and their enrollment is contingent not only upon academic acceptability but also upon availability of University housing. Reservations will be accepted under the procedures outlined... as long as space permits."

If you must follow a strict vegetarian diet or have strong food preferences, such as special seasonings to which you are accustomed, it is suggested that you not plan to live in a dormitory but instead look for off-campus housing where you may do your own cooking, and, therefore, not make an application for a reservation for housing in the dormitories. There is a Housing Office on the campus which has information about rooms and apartments off the campus near the University. In case you should decide to look for a furnished apartment, you should understand that "furnished apartment" may not mean the same thing in the United States as it does in your country. In most cases, furnished apartments in the United States do not include dishes and cooking ware; sheets and pillowcases, and often not pillows; often not lamps and curtains. If you have such items at home, you may consider sending them, although it would probably be just as cheap to purchase them here. Our Community Committee on Hospitality to Foreign Students in Albuquerque has a small supply of any of these items which you may need, to lend to foreign students while they are here at the University.

The University of New Mexico requires that you have a medical insurance policy while you are enrolled here. You may already have arranged for medical insurance coverage elsewhere; otherwise, you
are expected to purchase a very good policy which is available during registration at the University at $7.50 per semester.

You may have some questions about what to wear on the campus of the University of New Mexico. First, the climate is very dry; it seldom rains in Albuquerque. The summers are very hot. There is not much cold weather, but one needs a winter coat (camel's hair or wool tweed is adequate) for three or four months of the year. It is usually a good idea, when possible, to wait until arriving to see what one needs. The style of dress for classes is casual. Male students do not usually wear suits but prefer sweaters, shirts, or jackets with slacks. Girls generally wear casual dresses, or sweaters or blouses and skirts, with socks and low-heeled shoes. For receptions, parties, and so on, most boys have dark suits, and girls wear either cocktail-type or more formal dresses.

I am sure that you have already submitted a statement of financial responsibility at the American consulate at which you applied for your visa. I want to be sure that you understand that you are expected not to need financial assistance from the University of New Mexico for your first year here. In cases of emergency, students may apply for employment after two semesters, provided that their grades are satisfactory. However, jobs are not easy to find, and you will be expected in any case to devote your first two semesters to your studies.

I hope that this letter will help you in planning for your stay at the University of New Mexico. Please let me know if you have any other questions. I am looking forward to seeing you here this fall and to having a happy association with you during your stay in the United States.

Sincerely yours,

(Dr.) Mary Jane Cook
Foreign Student Adviser

MJC/mb
THE REPORT OF KNME-TV, CHANNEL 5

July 1, 1963 - July 1, 1964

F. Claude Hempen, Director of Television

On May 1, 1964, KNME-TV, Channel 5, Albuquerque, began its seventh year of broadcasting television for educational purposes to the viewers of New Mexico.

KNME-TV is owned by The University of New Mexico and the Albuquerque Public Schools and operates in cooperation with the New Mexico State Department of Education.

For the nine months of the academic year, KNME-TV broadcasts five days a week, averaging 13 hours a day. During the summer months, the broadcast schedule is reduced to five hours a day, Monday through Friday.

Almost 50% of the regular daily programming is produced in KNME studios. An average of 12 locally-produced programs are seen each day on Channel 5. About half of these are live at the time of broadcast; the others were either previously recorded or are videotape repeats of programs broadcast live earlier in the week.

In addition to the 50% locally produced programs, KNME receives approximately 30% of its programs from the National Educational Television network. The remaining 20% of program material is obtained from exchanges with other noncommercial television stations and from various free film sources around the country.

UNIVERSITY OF NEW MEXICO TELECOURSES

HUMANITIES (Philosophy I and II) was broadcast for the fifth year. The host and principal instructor for the series was once again Dr. H. G. Alexander,
Chairman of the Department of Philosophy. During the year, several visiting lecturers from various departments of the university appeared on the programs. The one-hour programs were broadcast twice a week: Monday and Wednesday at 8:00 p.m., with videotape repeats Tuesday and Thursday at 11:30 a.m. The television presentations were supplemented by once-a-week discussion periods in the classroom.

ORIENTAL RELIGIONS (Fall '63) and WESTERN RELIGIONS (Spring '64), although not designated as "telecourses," were integral parts of the university courses Philosophy 63-64 and Philosophy 185. Taught by Dr. Archie Bahm of the Philosophy Department, the two 45-minute televised programs a week consisted of lecture and discussion by guests from the university and the community with special knowledge of the religious subject under discussion. The programs were seen live at 9:30 a.m., Monday and Wednesday, and repeated on videotape the Tuesday and Thursday following at 8:00 p.m. Classroom discussion followed the live programs.

INTRODUCTION TO GUIDANCE (Education and Administrative Services 115) with Dr. George Keppers of the College of Education, was offered for the third year. The course was offered only by television with students required to appear on campus only for the regular examinations. The one-semester course was repeated in the spring semester. GUIDANCE was seen live Monday, Wednesday, and Friday mornings at 11:30 and repeated on videotape at 4:30 p.m. the same days.

TELECLASSES FOR THE ALBUQUERQUE PUBLIC SCHOOLS AND THE NEW MEXICO STATE DEPARTMENT OF EDUCATION

SCIENCE NINE (General Science), a weekly program of science instruction for the ninth grade taught by George Fischbeck since 1959, was broadcast eight times a week to accommodate various class schedules throughout the state.
The Friday night broadcast, designated GENERAL SCIENCE PREVIEW, was designed to allow teachers to preview the coming week's material. The series was also shown on CBS stations in El Paso and Odessa, Texas, and on non-commercial KTCA-TV in St. Paul, Minnesota. It is expected to be shown over KCSD-TV in Kansas City, Missouri, during 1964-65 and utilized in the school system there.

SCIENCE SIX, a twice-a-week 20-minute program of science instruction for the sixth grade, was taught by George Fischbeck. A supplementary program, SCIENCE FARE SIX, was also broadcast.

SCIENCE FIVE, a twice-a-week 20-minute program of science instruction for the fifth grade, and the supplementary SCIENCE FARE FIVE, were taught by George Fischbeck. This series was new during the 1963-64 school year.

MUSIC SIX, a twice-a-week 20-minute program of music instruction for the sixth grade, taught by Mrs. Nancy Johnson, was offered for the first time during 1963-64.

MUSIC FIVE, a twice-a-week 20-minute program of music instruction for the fifth grade, taught by Mrs. Kathleen McVicker, completed its second year of broadcast.

MUSIC FOUR, a twice-a-week 20-minute program of music instruction for the fourth grade, completed its third year, taught by Mrs. Jeanne Hook. The emphasis in all music teleclasses was on note reading rather than music appreciation.

GENERAL PROGRAMMING (locally produced)

TV KINDERGARTEN, with Joyce Marron, was the only kindergarten instruction received by thousands of pre-school children in New Mexico during the 1963-64 school year. The series is designed to prepare the pre-school child with
readiness skills for his first years in school. The 30-minute programs were broadcast live each afternoon and repeated on videotape the following morning. After play on KNME, the tapes were sent to and shown over non-commercial television stations in Columbus and Athens, Ohio; St. Paul, Minnesota; and Austin, Texas. The series is also expected to be seen in Portland, Oregon during 1964-65.

On May 27, 1964, it was announced that TV KINDERGARTEN had received an "Ohio State Award" from the Institute for Education by Radio-Television. The citation reads:

"This lesson is an excellent example of good television support for a superior teacher. Her warm and easy manner will be of great appeal to the viewing children. The lesson was ideally paced to suit the kindergarten level. An excellent example of effective use of television for teaching."

INTRODUCTION TO GUIDANCE (1962) and GENERAL SCIENCE (1961) had been previous winners of Ohio State Awards.

SHIRTSLEEVE SESSION, a weekly 30-minute program of informal discussion of current topics of interest to New Mexicans, was hosted by Dr. Keith St. Onge, Associate Professor of Speech. Three guests from the university and the community appear on each program. The series is regularly seen on KOB-TV each Sunday afternoon on videotape.

GREAT DECISIONS 1964 was broadcast in the time slot normally occupied by SHIRTSLEEVE SESSION during February and March. After play on Channel 5, the programs were broadcast by KOB-TV and KGGM-TV in Albuquerque, and KROD in El Paso, Texas. Host for the series for the fourth year was Robert C. Colgan of Sandia Corporation.

CHANNEL 5 REPORTS, a weekly 30-minute documentary presentation of various aspects of life in New Mexico and interviews with distinguished visitors to the state, continues, as does SHIRTSLEEVE SESSION, throughout the summer months.
LOBO LAIR, a 15-minute roundup of university sports activities seen each Friday night, featured George McFadden, sports publicity director of the university.

SOUNDS OF MUSIC, a weekly 30-minute music performance series, featured university, public school, and professional musicians of the community, in a wide variety of musical expression.

HABLEMOS ESPANOL and HABLEMOS MAS ESPANOL, the beginning and advanced courses in conversational Spanish, were taught by Alfred Chavez and Ramon Huerta. The programs in beginning Spanish, now in their fifth year, were re-broadcast during the morning hours for in-school utilization.

NEW MEXICO OUTDOORS, a bi-weekly program of news for sportsmen, featured Dave Jackson of the New Mexico Department of Game and Fish.

SOMETHING BORROWED was a 15-minute performance series by Albuquerque folk singer Sonja Gay.

In addition to these regularly scheduled series, a number of "specials" were broadcast, including live coverage of the 75th Anniversary Convocation and reports by Superintendent Charles R. Spain to the teachers of the Albuquerque Public Schools.

PEACE CORPS TRAINING

During the summer and fall of 1963, KNME provided the primary training for two contingents of Peace Corps trainees.

The first group, designated Colombia VIII, consisted of 22 volunteers to be prepared to form the studio-based production staff of an educational/instructional television project in Colombia. The emphasis in their training at KNME was upon program content and planning materials for production of in-school teleclasses in reading, writing, and arithmetic at the elementary
level, systematic teleclass series for in-service training of teachers, community-viewing telecourses for adults, and community-viewing vocational training courses.

The second group, designated Colombia XIII, consisted of 59 volunteers to be prepared to form the field utilization staff for the Colombia etv/itv project. Although they received some training in television presentational techniques so they could function as an effective complement to the studio-based production staff, their primary training was in the exploration of methods of utilizing educational/instructional television programs in the classroom and the community.

While in training, these volunteers spent much of their time in the smaller rural communities of New Mexico, acting as cadet teachers and living in homes in the community. This paralleled closely the situation they were expected to find in Colombia in language, living conditions, and utilization of educational television broadcasts.

FUTURE PLANS

KNME Television plans to occupy its new transmitter building atop Sandia Crest some time in September or October, 1964. The architect is now designing the structure -- construction should be started by mid-July and completed in September or October.

Preliminary plans and a model of the new KNME studios are completed. This proposed structure will consist of two 40 x 80 production studios and necessary offices. The studios are to be located on North University Avenue, west of the golf course.

Equipment for the new transmitter building and studio will be provided through a grant-in-aid from the Department of Health, Education and Welfare,
Educational Facilities Act, Public Law 87-447. Application for this grant-in-aid was made by KNME June 30, 1963.
The Report of the Data Processing Center
July 1, 1963 - June 30, 1964
F. Parker Fowler, Jr., Director

The 1963-64 academic year marks the inception of the Data Processing Center and its two-fold purpose of service to the Administration of the University and education in data processing.

Shortly after his arrival in early August, Mr. Jack H. Feise, Manager of Administrative Data Processing, completed a survey of administrative divisions which indicated the ultimate use of the data processing equipment in more than 200 applications campus-wide. The most compelling need existed in the general area of student records, registration, and scheduling, and the work of the staff has been directed primarily along those lines. Considerable of the work load of Fall '64 registration will have been shifted to the computer, including a new method for collecting student fees by mail. Ultimate plans call for virtually the entire registration process to be handled by mail, reducing the in-person processing time to less than one day's activity no matter how large the student body, and individual queuing time to a few minutes.

With the arrival on September 1 of Mr. Fowler, plans were implemented for offering of the 14-month Data Processing Program to commence in June of 1964. This curriculum offers a certificate
for the satisfactory completion of some 30 hours of academic course-work and 16 hours of technical (non-credit) work in data processing. Costs of the program, including all of the hardware used in the Center (and in the program), are shared between the UNM and the State Department of Education, Trade and Technical Division, under the NDEA of 1958 and the Vocational Training Act of 1963.

During the Spring Semester, Professor Fowler offered a Saturday morning class in basic data processing to some 100 members of the UNM faculty and staff. The purpose of this offering was to explain the nature of the work facing the center and how it must be accomplished, and to interest both administration and faculty in exploiting the potential of the hardware. The offering was apparently well received throughout its 13-week duration.

The punch-card hardware configuration in the center as of academic year-end consisted of the following:

- 5 IBM 026 Card Punches
- 4 IBM 024 Card Punches
- 2 IBM 056 Verifiers
- 1 IBM 557 Interpreter
- 1 IBM 088 Collator
- 1 IBM 084 Sorter
- 1 IBM 519 Reproducer
- 1 IBM 407 Accounting Machine
- 1 IBM 010 Punch
- Various Forms Bursters and Decollators

The computer configuration consisted of the following:
IBM 1401, Central Processing Unit, with multiply-divide feature, advanced programming, Hi-Lo-Equal Compare.

IBM 1406, Additional Core Storage (to 8000 characters).

IBM 1402, Card Read-Punch, Punch Feed Read.

IBM 1403 Printer, 600 lines/minute, 132 positions, Interchangeable print chain.

IBM 1407 Console Inquiry Station

IBM 1311 (3), Disc Drive Units and Disc-packs.

Total value of all hardware at list price is approximately $500,000.00.

Housed temporarily in T-17 during construction, the Center moved on May 20 to the Faculty Office wing of the Education Complex upon completion of its new quarters, which consist of an executive suite of two offices and reception lobby, four offices for the assistant manager (Robert R. Jeffrey - arrived January 1, 1964) and programmers, a conference room, the central machine room, key punch room and a storage room. In the basement of the central building of the complex the center occupies three rooms specially designed for its teaching program.

Due to the aggressive and responsible efforts of Mr. Feise, the physical layout and design of the Center is acknowledged to be among the finest in the country—well-suited to the dual function it must serve, exemplary as a working shop, and achieved without budgetary excess.
As of year-end, the staff consisted of the director, manager, assistant manager, senior systems analyst, two programmers, the key-punch supervisor, a key-punch operator and a secretary.

On June 22, 1964, the initial class of 24 enrollees commenced their training in the 14-month program. Twenty-five students from perhaps twice that number of applicants were selected on the basis of academic record, aptitude tests and probability of completion. Unique in the country in its combination of academic requirements and virtually unlimited "hands-on" equipment time, the program also exploits modern teaching methods in using, for instance, programmed instruction by tape recorder to teach key-punching.

Plans for next year accord with ever-increasing demands upon the Center. Continuing effort must be expended in support of the activities of the Registrar's office. Some initial work has been done for the Comptroller's office in insurance accounting and agency accounting and in preparing for a shift in methods in payroll and the cashier's operations. Since the goal of the Center is to provide total, integrated systems capability, a careful approach has been taken to each job undertaken to assure its justification in the greater scheme.

The man-machine load increases again in the Fall when, under the College of Business Administration, a new course will be
offered in data processing and required of all freshmen. In light of the importance of this area to management and its potential value as a teaching tool as well, the College of Business Administration recognizes this need and has been quick to support the activities of the Center, in addition to the important part played by Dean Finston in the creation of the Center itself. The demands of that college must continue to be served by the Center; it is to be noted that Center personnel have risen to this challenge not usually found in University work and have eagerly sought to assist in all phases of our educational function, greatly to their credit.

The planned hardware configuration will be virtually complete with the acquisition during the Summer of 1964 of two IBM 7330 tape drives which round out the computer to a truly all-purpose data processor. Certain peripheral hardware, such as a paper tape-to-card converter will be required to properly serve the Comptroller's office. Operating on an open-shop basis and with no history behind us, it is difficult to assess such overhead costs as will be incurred; careful budget control has been implemented to obviate high variance from budget in this regard.

With respect to faculty use of the hardware for teaching and research, we have encouraged people to take advantage of our open-shop policy. In this regard, the policy boils down to
a "do-it-yourself" opportunity; techniques in data processing cannot feasibly be left to someone else where teaching and research are concerned.

Mr. Fowler, Mr. Feise and Mr. Jeffrey are all members of the Data Processing Management Association; Mr. Feise has been elected Vice-President of the local chapter for the coming year and President-Elect for the year following. (Other activities of Professor Fowler are reported in the Annual Report of the College of Business Administration).

Contrary to the usual but regrettable attitude toward automation, Center staff have been delighted with the cooperation and enthusiasm of University of New Mexico people, notably Mr. J. C. McGregor and Mr. John Perovich and their staffs in what otherwise could be a frustrating and enervating endeavor. With such support, we look forward to many accomplishments in the future.

Respectfully submitted,

F. Parker Fowler, Jr.
Director
The Report of the Development Office
July 1, 1963 - June 30, 1964

Robert G. Lalicker, Director
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INTRODUCTION

This was an eventful and successful year for the Development Office. Through the consolidation and strengthening of recent gains and the initiation of new programs, we have endeavored to fulfill our responsibility to increase the support of the University of New Mexico. Perhaps the most significant of all accomplishments was the great increase in the number of alumni and friends of the University who actively participated in programs designed (1) to inform her publics of her accomplishments and plans and (2) to provide them with an opportunity to assist in the building of her future. These programs will be discussed in later sections of this report.

During the reporting period, several personnel changes were effected in the Alumni Office. On July 22, 1963, Mrs. Leona Powers was employed as a clerk-typist to replace Mrs. Patricia Apodaca. Mrs. Mary Duthie was employed on December 18, 1963, to replace Mrs. Powers. On January 30, 1964, Mrs. Sallye Dalmasso was employed as a clerk-typist to replace Miss Virginia Tynes. Mr. Dave Williams was employed as mail clerk on June 8, 1964. Mrs. Rita Anderson replaced Mrs. Dorothy Myers as Office Manager on June 11, 1964.
The Alumni Association, in only the first year after its reorganization, proved that it could take its rightful and respectable place in the working University complex. This was accomplished by its ready acceptance of responsibilities toward the betterment of the institution and its implementation of numerous and successful programs toward this end.

The Association, under the excellent guidance of Presidents Dan A. Macpherson and James T. Paulantis (installed February, 1964) and a very able Director of Alumni Relations, was governed by a representative, fifty-nine member Board of Directors.* It met on three occasions during the year to act upon business presented to it by its Executive Committee, which met monthly. Some of the more significant accomplishments of the Alumni Association were as follows:

Legislators' Day - Chairman Ben Hernandez, '41, played the key role in an event which substantially proved the strength of the Alumni Association. Invitations were extended to every New Mexico legislator to attend a "Day at UNM" on October 5, 1963. Over fifty of them and their wives were welcomed to the campus by University administrators, and students and alumni from their own communities. The guests were honored by the Associated Students at lunch, then given

*See Appendix A for roster
conducted tours of the campus. Following a briefing on the University by President Popejoy, they were the guests of the Alumni Association at a reception, a buffet dinner, and a football game.

While the benefits to the University resulting from this effort cannot be measured directly, the dividends which it will undoubtedly receive from the understanding and good will that was generated will be substantial. It is important to note that no state funds were expended for the program; all expenses were covered by private contributions and an allocation from the Associated Students.

Alumni Clubs - Twenty-seven meetings held during the year in twenty-four communities in eleven states were attended by 1993 alumni and friends, up 38% over last year. New clubs were chartered in El Paso, San Diego, San Francisco, the Four Corners Area, Santa Fe, and the New York area, bringing the total of duly chartered clubs to 17.*

It has been found that this person-to-person contact - bringing the University to the alumnus - is by far the most effective means of conveying the UNM story of progress, plans and needs to her graduates and former students. Additionally, a club program aids greatly in efforts to establish contacts throughout the state and nation. It might be noted that we now have such contacts - proven and reliable - in

*See Appendix B
81 communities to whom we can go when in need of local assistance.

A Club Leaders' Newsletter was mailed to 205 alumni throughout the country who assisted in the organization of a club or a meeting during the year. This, again, clearly shows the extent of the personal involvement of our key alumni.

High School Achievement Awards - The Association, being vitally interested in strengthening the University by encouraging academically strong students to enroll, continued and expanded its High School Achievement Awards Program in the Spring of 1964. Al Valdez, '61, headed the Awards Committee. Principals in 31 New Mexico High Schools, an increase of 11 schools over last year, selected two outstanding graduating seniors - one in Humanities, one in Mathematics and Science - receive the awards. In nearly every case, the award was presented by an alumnus in the community.

This year, recipients will receive, in addition to an attractive bronze-on-wood plaque, a cash stipend of $25.00 upon their enrollment at the University of New Mexico. For their local recipients, alumni in eight communities (plus Albuquerque - 14 schools) raised additional scholarship funds which will be matched upon the students' enrollment. The original stipend and the matching money was made available by the Greater UNM Fund. (See Appendix C for details.)
Other Awards - The Bernard S. Rodey Award was given to three persons during the year for the work they contributed to the Association: Judge Dan Macpherson, '28, as President of the Alumni Association; Dr. Albert G. Simms II, '41, as Chairman of the President's Advisory Committee and of the Greater UNM Fund; and Ben Hernandez, '41, as Chairman for Legislators' Day. Alumni Service Awards were also given to members of the Executive Committee and to Ray Rodey and Lars Halama for their service on the Executive Committee of the Advisory Committee.

Eleven teachers in Roswell were recipients of the James F. Zimmerman Award given for service in the field of education in New Mexico. These awards were made during the "UNM Day in Roswell". Miss Cheryl Cunningham was the recipient of the Association's Citizenship Award, given annually to a graduating senior for service to the University as an undergraduate.

Homecoming - Participation in all 1963 Homecoming activities was conservatively estimated at 50,000 alumni and friends. In addition to the usual program of class reunions (4), campus caravan, game, and dance, a new and highly successful complimentary luncheon for alumni and their families was held this year. Special thanks went to the Home Savings and Loan Association for its generous gift to underwrite the luncheon. George Ambabo, '54, was general Homecoming Chairman.

- 4 -
Undergraduate Relations - Lee Seligman, '60, was named chairman of this new committee, with the purpose of informing undergraduates of alumni benefits and responsibilities so that they can take their place as participating members of the Association upon graduation. The committee's most important accomplishment this year was the organization of an "All Senior Breakfast", attended by 150 of the top graduating seniors. The breakfast was complimentary, being underwritten by contributions from the Board of Directors and Albuquerque Federal Savings and Loan Association. Lars Halama, '42, was the speaker. Undergraduate relations were also strengthened through the efforts of the Director of Alumni Relations, who spoke before five student groups during the year.

President's Alumni Advisory Committee - While this is not specifically a program of the Association, it is so closely related to the general work of the organization that it will be mentioned here. The year saw two meetings of the Committee.* Since the group meets in closed session, detailed information of its contributions are omitted. Importantly, the committee advised President Popejoy on three major issues: the 1964 Bond Election, Legislative and Board of Educational Finance Relations, and Policies on Gifts to the University.

*See Appendix D
RECORDS AND COMMUNICATION

Records - Since alumni records, especially addresses, are the lifeblood of the Development operation, great efforts are made to keep them current and accurate. An estimated 7,500 address changes were made during the year, or nearly 30% of the addresses on file as of July, 1964 (as estimated 21,200). It is most encouraging to note that a great increase in the number of voluntary address changes has been experienced, indicating increasing interest in University activities and Development-Alumni publications. In order to facilitate record maintenance, a major "geographical" card file was eliminated during the year, this information still being available in an addressograph slide file.

Mailings - Evidence of an ever-expanding communications program was that the number of pieces of outgoing mail increased 61% over last year. Over a quarter of a million pieces left the office during 1963-64 for alumni and friends in every corner of the globe. Of this mail, 60% was sent second class, 25% third class and 15% first class. Returned mail numbered 6,500 pieces, of which 5,000 indicated good forwarding addresses. Additionally, over 1,000 address tracers were sent from the Office during the reporting period.

- 6 -
Publications - Upon the recommendation of the Alumni Publications Committee (Betty Perkins, '41, Chairman), six issues of the ALUMNUS were published during the year, three in magazine format and three in newsletter format. A total of 125,793 copies of this publication went, free of charge, to UNM alumni during the period. The newsletter was used largely for promotional material, such as the Greater UNM Fund and activities of the Alumni Association. The magazine, on the other hand, was used primarily to convey to its readers the academic aspects of the University and personal achievements of her alumni.

Certainly the successes of our Alumni Relations program can be counted as the major factor in the success of our overall Development effort. The job our alumni publications are doing in conveying the correct "image" of the University to our alumni body is a significant part of this program.

In addition to editing the ALUMNUS and the Annual Gift Report, the Alumni Editor also very professionally handled publicity for twenty-six out-of-town alumni meetings, Legislators' Day, Homecoming, the Greater UNM Fund campaign, and a campus tour program. She also assisted in the development of several slide programs used by the Development-Alumni Office.
FUND DEVELOPMENT

The Greater UNM Fund - The Fund, ending its first year of operation on June 30, 1964, had a dramatically successful beginning. With Dr. Albert G. Simms II, '41, as 1963-64 Chairman, the Fund's Board of Directors initiated a program of soliciting the University's alumni and encouraging its friends to provide financial assistance to the institution in areas where appropriated funds were unavailable or inadequate to the task. The response was very gratifying, almost overwhelming in some respects.

The detailed Report on Gifts to the Fund for 1963-64 is appended (Appendix E) as part of this report and shows gifts received by the University from all sources. Several of the more significant items found in the report bear mentioning here:

1. Individual alumni participation increased 465%.
2. Individual friends participation increased 60%.
3. Total number of donors increased 133%.
4. Unrestricted gifts, the most useful, increased 330% in dollar value.
5. Excluding a single $150,000 gift received last year, total gifts received showed an increase of nearly $100,000.

Contributions received by the Fund were used expressly for the purpose for which they were earmarked. Unrestricted gifts were distributed upon the recommendation of an
Allocations Committee, appointed by the Fund Chairman and composed of faculty, administrative staff and alumni.

Other Activities - In addition to administering the Greater UNM Fund, the Development Office provided assistance to seventeen other University departments in specialized solicitation projects, assisted in the establishment of forty-four individual trust funds, scholarships, or loan funds, worked with eight attorneys in drawing up wills to include the University, and corresponded or met personally with dozens of prospective donors whose gifts have not yet been consummated. Every gift to the Fund received directly through the Development Office was acknowledged personally.

Over 450 townspeople and visitors to Albuquerque have been given an introduction to the University during a series of organized campus tours, organized and coordinated by the Development Office as part of the 75th Anniversary Celebration.

STAFF ACTIVITIES

University-Related - The three professional staff members of the University were heavily involved in the 75th Anniversary organization, being on eight sub-committees as well as the Executive Committee. Members were also on the:

Committee on the University (Vice Chairman)
Scholarships and Awards Committee
Committee on Gifts to Museums, Galleries and Libraries (Chairman)
Committee on Unrestricted Gifts (Chairman)
Credit Committee, Coronado Credit Union (Chairman)
Professional - Mrs. Reiter served as 1963-64 Alumni Publications Chairman of the District VII American Alumni Council and was host, chairman, and program director of a Western Editors Workshop held in Albuquerque in March.

Mr. McGuire delivered a speech on Legislative Relations at the 1963 National AAC Convention in Atlantic City, served as session chairman at the District VII meeting of the AAC held in Provo, Utah, and was named 1964-65 Alumni Chairman for the District.

Mr. Lalicker served as session chairman at the Provo AAC meeting and coordinated the Round Table Discussion program for Alumni Funds and Development Programs at the 1964 National AAC meeting in Denver.

Community - Mr. McGuire served as Counselor at the 1964 Boys' State. Mr. Lalicker served on the Board of Directors of the Bernalillo County Chapter of the American Red Cross and the Heights Branch Family YMCA. He also was chairman of the 1963 University United Fund (UCF) Campaign. All professional staff members appeared before civic clubs and special interest groups to speak on the University.
SIGNIFICANT PLANS

During the coming year efforts will be continued to expand and to improve our programs of service and support - to and from the University. It is anticipated that the following specific projects or programs will be accomplished:

1. Development of a Bequest and Deferred Giving guide for use by attorneys and prospective donors.

2. Organization of a Friends of the University Libraries.

3. Development of the Lawrence Ranch for use by alumni and their families. A continuing education program would be initiated simultaneously.

4. Preparation of alumni records for conversion to IBM.

5. Completion of an Office Manual for the Alumni Office.

6. Distribution of UNM Press publications to selected alumni.

7. Expansion of the President's Alumni Advisory Committee.
ACKNOWLEDGEMENTS

The Director expresses his deep gratitude to the many loyal alumni and interested friends who gave so generously of their time and energies in order to assist the University of New Mexico in its progress towards greatness during 1963-64. Appreciation goes also to the University administration for its complete support of our programs and to the many faculty and staff members who so willingly assisted us when they were called upon.

Profound thanks are extended to the dedicated, hard-working, and conscientious clerical staff of the Development and Alumni Office, without whose tireless efforts this report could not be written with such a sense of pride and accomplishment.
APPENDIX A

ALUMNI ASSOCIATION
BOARD OF DIRECTORS, 1963-64

President, James T. Paulantis '40
Vice President, George C. Ambabo '54

Executive Committee

W. W. Atkinson '36 Lee J. Seligman '60
Mrs. Peter C. Harrity '56 Alfred A. Valdez '61
Mrs. A. G. Seis Jr. '46

Term Expires 1966

Wm. Lyle Baker '60 Russell M. Doetzell '50
James H. Benner '51 Fresno, Calif.
Joseph F. Boehning '53 Mrs. Dan Girand '60
Mrs. Arthur H. Bryce '28 Amarillo, Texas
Fred Goldsworthy '36 Dr. Wm. E. Hall, Jr. '44
Mrs. Joe D. Harris '41 Lincoln, Neb.
Howard W. Henry '60 Mrs. Gilbert Hendrix '31
S. Sidney Hertzmark '39 San Juan, Puerto Rico
Miss Julia Keleher '30 Dr. Ogle S. Jones '25
William Krieger '60 Centerville, Tenn.
Norman Mugleston '59 Bruce King '42
Clay Pooler '36 Stanley
Mrs. A. G. Seis, Jr. '46 Mrs. Jose R. Martinez '57
Edward D. Shaffer '52 Fairview
J. Leon Thompson '36 Dan C. Minnick '34
Mickey Toppino '53 Ordway, Colo.
Alfred A. Valdez '61 Bobby Neil Morgan '56
James F. White '59 Artesia
Mrs. E. A. Bryant '54 The Rev. Ronald Norman '52
Los Alamos Dalton, Neb.
Dean Blake Chambliss '56 Owen N. O'Leary '50
Grand Junction, Colo. Wichita, Kans.
Richard C. Chapple '59 Sigfred Sandberg '49
Los Angeles, Calif. Forest Hills, N. Y.
Wm. M. Cleveland '58 William R. Speer '52
Portsmouth, N. H. Farmington
Dr. H. C. Cox '50 Roy C. Stumph '33
Tifton, Ga. Ramah
Paul C. Cox '39 Ralph M. Watrous '40
Las Cruces Union, Ohio
Lloyd B. Crawford '59 Martin C. Wehmhoner '31
San Diego, Calif. Deming
Robert Dierman '55 John C. Zutavern '51
River Edge, N. J. Abilene, Kans.
## Term Expires 1965

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<td>Gilbert Miranda</td>
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<tr>
<td>Mrs. George Savage</td>
<td>'24</td>
<td></td>
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<td>Lee J. Seligman</td>
<td>'60</td>
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<tr>
<td>Mrs. Glen L. Houston</td>
<td>'51</td>
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<td>Frederick B. Howden</td>
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<td>Hobbs</td>
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<td>Linden M. Knighten</td>
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<td>Robert C. MacNeely</td>
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<td>Pat Pugh</td>
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<td>Allen Rollie</td>
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<td>Gallup</td>
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<tr>
<td>Harvey H. Whitehill</td>
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## Term Expires 1964

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<td>D. A. Macpherson, Jr.</td>
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<tr>
<td>Joseph E. Roehl</td>
<td>'36</td>
<td></td>
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<tr>
<td>Mrs. Mabel Bennet</td>
<td>'38</td>
<td></td>
</tr>
<tr>
<td>Longmont, Colo.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Walter A. Biddle</td>
<td>'37</td>
<td></td>
</tr>
<tr>
<td>Phoenix, Ariz.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ross W. Black</td>
<td>'54</td>
<td></td>
</tr>
<tr>
<td>Lovington</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frank H. Grubbs</td>
<td>'50</td>
<td>Evanston, Ill.</td>
</tr>
<tr>
<td>Lawrence A. Hogrefe</td>
<td>'55</td>
<td>Chicago, Ill.</td>
</tr>
<tr>
<td>Jamie Koch</td>
<td>'59</td>
<td></td>
</tr>
<tr>
<td>Santa Fe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Michael R. Laine</td>
<td>'58</td>
<td>Las Cruces</td>
</tr>
<tr>
<td>Robert J. Miller</td>
<td>'50</td>
<td>Oxford, Ohio</td>
</tr>
<tr>
<td>Wesley Quinn</td>
<td>'32</td>
<td>Clovis</td>
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## College Representatives

(Appointed):

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<th>College</th>
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<td>C. E. Dinkle</td>
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<td>Sheldon Dike</td>
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<td>Al Grubesic, Santa Fe</td>
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<tr>
<td>Engineering</td>
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<td>Business Administration</td>
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<tr>
<td>Harold Lavender</td>
<td>'51</td>
<td>Fred Tharp, Clovis</td>
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<tr>
<td>Education</td>
<td></td>
<td>School of Law</td>
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<tr>
<td>Arthur Loy</td>
<td>'38</td>
<td>Mrs. George R. Shaffer</td>
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<tr>
<td>Fine Arts</td>
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<td>Nursing</td>
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APPENDIX B

RECORD OF MEETINGS HELD BY UNIVERSITY OF NEW MEXICO ALUMNI CLUBS
FROM JULY, 1963 TO MAY, 1964

<table>
<thead>
<tr>
<th>Date</th>
<th>Place &amp; No.</th>
<th>U. Representative</th>
<th>Responsible Persons</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1963)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>July 31</td>
<td>*Hawaii (28)</td>
<td>Martin Fleck</td>
<td>Pat Carder</td>
</tr>
<tr>
<td>Oct. 19</td>
<td>Las Cruces (100)</td>
<td>Lalicker, McGuire</td>
<td>Paul Cox</td>
</tr>
<tr>
<td>Oct. 26</td>
<td>*Ohio (45)</td>
<td>none</td>
<td>Howard Gregory</td>
</tr>
<tr>
<td>Nov. 2</td>
<td>Denver &amp; Ft. Collins</td>
<td>McGuire, McDavid</td>
<td>Bob Kayne</td>
</tr>
<tr>
<td>Nov. 12</td>
<td>New York (60)</td>
<td>Popejoy</td>
<td>Warren Johnson</td>
</tr>
<tr>
<td>Nov. 16</td>
<td>*Indiana (25)</td>
<td>none</td>
<td>George Dolen</td>
</tr>
<tr>
<td>Nov. 16</td>
<td>Homecoming (Luncheon)</td>
<td></td>
<td>George Ambabo</td>
</tr>
<tr>
<td>Dec. 4</td>
<td>*Artesia (45)</td>
<td>McGuire, Lalicker</td>
<td>Butch Worthington</td>
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<tr>
<td>Dec. 7</td>
<td>Tucson (50)</td>
<td>McDavid, McGuire</td>
<td>Geo. Mitchell</td>
</tr>
<tr>
<td>(1964)</td>
<td></td>
<td>McFadden, Popejoy</td>
<td></td>
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<tr>
<td>Jan. 10</td>
<td>Roswell (150)</td>
<td>Popejoy, Lalicker,</td>
<td>Howard Bratton</td>
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<td>McGuire, Schlagel</td>
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<td>Feb. 21</td>
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<td>Denver (50)</td>
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<td>Bob Kayne</td>
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<tr>
<td>Mar. 6</td>
<td>*Farmington (75)</td>
<td>Popejoy, Lalicker,</td>
<td>Bill Speer</td>
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<td>Mar. 11</td>
<td>*San Diego (55)</td>
<td>Popejoy, McGuire</td>
<td>Ron Hammershoy</td>
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<td>*San Francisco (75)</td>
<td>Popejoy, McGuire</td>
<td>Mrs. F. Sumner</td>
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<td>Mar. 13</td>
<td>Los Angeles (125)</td>
<td>Popejoy, McGuire</td>
<td>Dale Mackey</td>
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<tr>
<td>Mar. 13</td>
<td>*San Antonio (50)</td>
<td>Weeks</td>
<td>Marv Relkin</td>
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<td>Mar. 25</td>
<td>*Montgomery (20)</td>
<td>Popejoy</td>
<td>Roy Hickman</td>
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<tr>
<td>April 6</td>
<td>*El Paso (40)</td>
<td>Petrol, MacManus</td>
<td>Harvey Whitehill</td>
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<tr>
<td>April 24</td>
<td>Denver (50)</td>
<td>McDavid</td>
<td>Bob Kayne</td>
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</table>

- 15 -
<table>
<thead>
<tr>
<th>Date</th>
<th>Place &amp; No.</th>
<th>U. Representative</th>
<th>Responsible Persons</th>
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<td>(1964)</td>
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<tr>
<td>May 6</td>
<td>*Curry-Roosevelt Co's(Clovis)(50)</td>
<td>Bob King,Lalicker</td>
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<td>McKinley-Valencia Co's(Gallup)(65)</td>
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<td>Herb Taylor</td>
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<td>F. McGuire</td>
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<td>May 14</td>
<td>Eddy Co. (Carlsbad)(65)</td>
<td>Dr. Fleck,F. McGuire</td>
<td>Ralph Bowyer</td>
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<td>Brass Sextet</td>
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<td>May 15</td>
<td>*Indianapolis (20)</td>
<td>Bob Lalicker</td>
<td>Geo. Dolen</td>
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<tr>
<td>May 16</td>
<td>*Santa Fe (75)</td>
<td>Dr. Fitz, Pete McDavid, Mrs.Reiter F. McGuire</td>
<td>Dave Matthews Bill Fields Margaret Johnson</td>
</tr>
<tr>
<td>May 16</td>
<td>*Columbus, Ohio (25)</td>
<td>Bob Lalicker</td>
<td>Ed Muren</td>
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<tr>
<td>May 24</td>
<td>*Stuart, Florida</td>
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<td>Mrs. Carol Schmidt</td>
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* Slides shown depicting University's development
Listed below are the names of the recipients of the 1964 High School Awards, as follows:

### Albuquerque:

<table>
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<tr>
<th>School</th>
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<th>Science &amp; Math.</th>
<th><strong>Amount with Award</strong></th>
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<tr>
<td>Academy for Boys</td>
<td>Clark Carr</td>
<td>Robert Wales</td>
<td>$ 75.00</td>
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<td>Pres. by: School</td>
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<tr>
<td>Albuquerque High</td>
<td>Joe Ruiz</td>
<td>John Del Mar</td>
<td>$ 75.00</td>
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<td>Pres. by: Al Valdez</td>
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<tr>
<td>Alb. Indian School</td>
<td>Bernard Melchor</td>
<td>Jerry Johns</td>
<td>$ 75.00</td>
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<td>Pres. by: Fred Goldsworthy</td>
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<tr>
<td>Harwood School</td>
<td>Barbara Harman</td>
<td>Marilyn Prieto</td>
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<td>Pres. by: Betty Perkins</td>
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<td>Highland High</td>
<td>Marilyn Hildner</td>
<td>Edward Hampson</td>
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<td>Pres. by: Mrs. A. G. Seis</td>
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<tr>
<td>Lourdes School</td>
<td>Erminio Nieto</td>
<td>Max Sandoval</td>
<td>$ 75.00</td>
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<td>Pres. by: James F. White</td>
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<tr>
<td>Manzano High</td>
<td>Mary Potvin</td>
<td>David Haaland</td>
<td>$ 75.00</td>
</tr>
<tr>
<td>Pres. by: School</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Menaul High</td>
<td>William Johnstone</td>
<td>Adeline Lim</td>
<td>$ 75.00</td>
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<tr>
<td>Pres. by: Scott Mabry</td>
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<td></td>
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<tr>
<td>Rio Grande High</td>
<td>Bonnie Reynolds</td>
<td>Arnold Dennison</td>
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</tr>
<tr>
<td>Pres. by: Gil Miranda</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Sandia High</td>
<td>Patricia Simmons</td>
<td>Robert Mercer</td>
<td>$ 75.00</td>
</tr>
<tr>
<td>Pres. by: Frank Graham</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>St. Pius X High</td>
<td>Stephen Adrian</td>
<td>Arthur Verardo</td>
<td>$ 75.00</td>
</tr>
<tr>
<td>Pres. by: Al Valdez</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>St. Vincent Academy</td>
<td>Bernadette Gutier-Irene Tabaka</td>
<td>$ 75.00</td>
<td></td>
</tr>
<tr>
<td>Pres. by: Mrs. Peter Harrity</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**$75 is available to recipients who live in communities where matching money was provided.**

- 17 -
<table>
<thead>
<tr>
<th>School</th>
<th>Humanities Award</th>
<th>Science &amp; Math. Award</th>
<th>Amount:</th>
</tr>
</thead>
<tbody>
<tr>
<td>St. Mary's High</td>
<td>Karen La Rue</td>
<td>John Mexal</td>
<td>$75.00</td>
</tr>
<tr>
<td>Pres. by: Mrs. Joe Harris</td>
<td></td>
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<tr>
<td>Valley High</td>
<td>Willow Blumenfeld</td>
<td>Roger Koerner</td>
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<tr>
<td>Pres. by: Norman Mugleston</td>
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<tr>
<td>Artesia High</td>
<td>Carolyn Smiley</td>
<td>Whitney Johnson</td>
<td>$75.00</td>
</tr>
<tr>
<td>Pres. by: Butch Worthington</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Aztec High</td>
<td>Sharon O'Halloran</td>
<td>Claude Valles</td>
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</tr>
<tr>
<td>Pres. by: Jim Milling</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Carlsbad High</td>
<td>Joe Trevino</td>
<td>Larry Mayo</td>
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<tr>
<td>Pres. by: Ralph Bowyer</td>
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<td></td>
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<tr>
<td>Clovis High</td>
<td>Andrea Lee</td>
<td>Kenneth Willmon</td>
<td>$25.00</td>
</tr>
<tr>
<td>Pres. by: Morris Stagner</td>
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<tr>
<td>Espanola High</td>
<td>Robert Martinez</td>
<td>Ronald Seidel</td>
<td>$75.00</td>
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<tr>
<td>Pres. by: Bob MacNeely</td>
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<td></td>
<td></td>
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<tr>
<td>Farmington High</td>
<td>Jo M. Boettcher</td>
<td>Eddie Scribner</td>
<td>$75.00</td>
</tr>
<tr>
<td>Pres. by: School</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Gallup High</td>
<td>Chris Whitson</td>
<td>David Baumgardner</td>
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<tr>
<td>Pres. by: Herb Taylor</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Cathedral High (Gallup)</td>
<td>Francine Hagberg</td>
<td>Roger Loraas</td>
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<tr>
<td>Pres. by: Herb Taylor</td>
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<td></td>
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<tr>
<td>Grants High</td>
<td>Paula Marshall</td>
<td>Carroll Polk</td>
<td>$75.00</td>
</tr>
<tr>
<td>Pres. by: Ray Gunderson</td>
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<td></td>
<td></td>
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<tr>
<td>Hobbs High</td>
<td>Judy Badger</td>
<td>Robert Booker</td>
<td>$25.00</td>
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<tr>
<td>Pres. by: Glen Houston</td>
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</tr>
<tr>
<td>Los Alamos High</td>
<td>Joseph Trujillo</td>
<td>John Landahl</td>
<td>$25.00</td>
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<tr>
<td>Pres. by: Mrs. Bobbie Bryant</td>
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<tr>
<td>Las Cruces High</td>
<td>Robert Rowan III</td>
<td>Herbert Solberg, Jr</td>
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<td>Pres. by: School</td>
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<td></td>
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<tr>
<td>Ramah High</td>
<td>Letha Lewis</td>
<td>Norman Bloomfield</td>
<td>$25.00</td>
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<tr>
<td>Pres. by: Leslie Clawson</td>
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</tr>
</tbody>
</table>

- 18 -
School | Humanities Award | Science & Math. | Amount with Award
--- | --- | --- | ---
Roswell Senior High | Judith Ann Blome | Dewey E. Johnson | $25.00
Santa Fe High | William N. Zimmer | Ronnie V. Buskirk | $25.00
St. Michael's Santa Fe | John J. Duran | James P. Irwin | $25.00
Taos Senior High | Dolores Martinez | Ronnie L. Kennon | $75.00

The total number of awards given this year was 62; and the total number of participating high schools was 31. 23 more awards were given this year than in 1963, with an increase of 11 more participating high schools than last year.

Part, or possibly more than part, of the reason for the increase in participating schools was the additional stipend provided this year by money allocated from the Greater UNM Fund, which provided that when interested alumni came up with $25 in their communities, the Fund would match this with an additional $25 for students who enrolled in the University of New Mexico. This sum, added to the automatic $25 already established, meant that it was possible this year for each recipient to receive a total award of $75.

The monetary award was accompanied by an attractive bronze-on-wood plaque which listed the school and the name of the recipient. Each recipient was also sent a letter explaining the procedure for picking up their money upon enrollment.
APPENDIX D

THE PRESIDENT'S ALUMNI ADVISORY COMMITTEE, 1963-64

Dr. Albert G. Simms II, '41
Chairman

Lars E. Halama, '42
Vice Chairman

Ben C. Hernandez, '41
Executive Committee

Ray H. Rodey
Executive Committee

Sam Angell
Roswell

Mr. & Mrs. Ed Black
(LOretta Harrison)

Mrs. Howard Brandenburg
(Helen Emily Zimmerman)

Taos

Harold Brock

Reese Cagle
Crovis

M. Byrne Cates

Roger Cox

C. E. Dinkle

Ralph Dixon

Mrs. Paul Dorris
(Juana Fincke)

Mrs. Jack Ewing
(Mary Helen Cox)

William E. Fields
Santa Fe

H. L. Galles

Mrs. Leonard Glasebrook
(Margaret Herlihy)

Mr. & Mrs. Fred Goldsworthy
(Ruth Brock)

Mrs. Leonard Hartman
(Betty Meyer)

Mrs. Guyton Hays
(Marie Jensen)

Mr. & Mrs. Jim Heath
(Carole Wilson)

Sidney Hertzmark

Robert W. Hopewell

Calvin Horn

R. Frank Jones

William Keleher

Mr. & Mrs. Carles Koskovich

(Judy Hubbard)

Ralph Loken

Mr. & Mrs. Robert Matteucci
(Mary Botts)

Finlay MacGillivray

Mrs. Peter McCanna
(Virginia Shirley)

Brig. Gen. John McFarland

Mr. & Mrs. Kenneth Mount
(Betha Young) Los Alamos

Mr. & Mrs. Norman Mugleston
(Riette Lewinson)

Mr. & Mrs. Cyrus S. Perkins
(Betty Burton)

Wesley Quinn

Clovis

Mrs. David Rakestraw
(Martha Gould)

Steve Reynolds

Lee J. Seligman

Alva A. Simpson

Robert Taichert

Frank Westerfield, Jr.

Dr. & Mrs. Larry White
(Lue Low) Hobbs

Tom Wiley
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Whole Number 534. Catalog Series Vol. 78, No. 3, Sept., 1964. Published by the University of New Mexico, Albuquerque, New Mexico, seven times a year—once in January, once in March, once in May, once in July, once in August, once in September, and once in December—with an additional issue in November during the even years and one in August and one in December during the odd years. Second-class postage paid at Albuquerque, New Mexico.
A Message From the President

This first report of The Greater UNM Fund gives an encouraging picture of your acceptance of the concept of annual giving. The people of New Mexico have for 75 years supported higher education through legislative appropriation and they have maintained a good university by this means. But the margin between a good institution and an excellent one can only be bridged by voluntary support. This report is a token of your willingness to bridge that gap. We send it to you, listing the names of all who have given to the University during 1963-64, as a token of the gratitude of the Regents, Faculty, and Students. Without your help, we could not function on a level appropriate to a great state.

The University is especially appreciative of the $36,000 in unrestricted cash gifts. This money can be used where the need is greatest, supplying many emergency needs, and all of us are pleased to note that the dollar amount has quadrupled during the past year. Rest assured that your money will always be used for any purpose you wish to designate, but the needs of the University are best served by unrestricted monies.

Besides the cash gifts, which amounted to $40,985 this year, the University has received thousands of dollars worth of gifts in kind—books, library materials, works of art, artifacts, special equipment. The names of the donors of these gifts are included in the report, but no estimate of their cash value has been made. We look forward, with you, to an even greater year for the Greater UNM Fund in 1964-65.

TOM L. POPJOY
President

A Message From the Chairman

It is with great satisfaction that the Greater UNM Fund Board of Directors presents this report to the Regents, President, Alumni and Friends of The University of New Mexico. In its first year of operation, the Fund has met with an enthusiastic acceptance by the alumni which promises an ever increasing, ever more valuable contribution to the academic excellence of the University. A mandate for Annual Giving is evident in the letters which have accompanied the gifts.

Efforts during this first year have been to encourage greater participation in the giving program, rather than to establish dollar goals or to emphasize total dollar income. The efforts have met with unqualified success. You will note that the total number of donors in 1963-64 represents a gratifying increase of 133% over the previous year, and that the number of alumni donors has increased a truly astounding 463%. At the same time, the amount donated has increased nearly one-third, if a single foundation gift of $150,000 to the Medical School in 1962-63 is excluded.

It has been a pleasure to me personally to be associated with The Greater UNM Fund during this first year of its founding, and I am grateful for the help and cooperation which the Board has received from many, many individuals and groups in making the year a success. We look forward with confidence to even greater success in 1964-65 as more and more former students and friends take advantage of the opportunity offered by the Fund to further the cause of higher education in New Mexico.

ALBERT C. SHESS, Jr., '41
Chairman, Board of Directors
The Greater UNM Fund
INTRODUCTION

In 1963-64, for the first time all private support for the University of New Mexico was channelled through the Greater UNM Fund, established in the Development Office in July, 1963, under the auspices of the Alumni Association. The Board of Directors of the Fund has made a concentrated effort to enlist the aid of alumni and friends in the support of quality programs for the University, and the effort has resulted in donations from 1,067 alumni in all parts of the world. Their average contribution this reporting year was $25.15, and the total was a welcome $25,776.16.

In addition, 635 friends have made contributions of money or materials, and the University has received substantial aid from foundations, estates, organizations, and businesses, both from within New Mexico and throughout the nation.

As a gesture of gratitude, the names of all donors are listed in this report. It should be noted that a cash value has not been put on gifts in kind; the $401,985.17 “total amount donated” represents only actual cash. Gifts in kind have amounted to many thousands of dollars, and are in most cases irreplaceable.

Efforts this first year of The Greater UNM Fund have been to encourage greater participation in the giving program rather than to establish dollar goals or to emphasize total dollar income. They have met with unqualified success. The total number of donors in 1963-64 represents a gratifying increase of 113% over last year. A staggering increase of 465% in alumni donors over last year significantly displays tangible evidence of the willingness of graduates and former students to lend their support to the University of New Mexico in order to provide a “margin of excellence.” Alumni gifts increased from $7,000 to over $25,000 during the reporting period.

Disbursements of unrestricted money in The Greater UNM Fund are made by an Allocations Committee composed of faculty, administrative staff and alumni members. The Committee carefully studies the needs of the University and appropriately designates the uses to which the unrestricted gifts are put.

The funds are enabling the University to provide services which, without private support, could not be performed effectively, if at all. Appropriated funds and student fees can provide the basics of physical plant, minimum faculty, administration and housekeeping, but those extra features which promote educational leadership and distinction are generally not available from state monies. Scholarship and graduate fellowship funds, research grants, enriched teaching programs, special equipment and library materials—the things that attract high quality faculty and students, are dependent upon the interest and generosity of individuals.
GIFTS TO THE GREATER UNM FUND
1963-1964

SOURCES OF FINANCIAL SUPPORT

<table>
<thead>
<tr>
<th>No. Donors</th>
<th>Amount Donated</th>
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<tr>
<td></td>
<td>1962-63</td>
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<tr>
<td>Foundations, Estates &amp; Misc.</td>
<td>25</td>
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<td>Organizations</td>
<td>139</td>
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<td>Business—New Mexico National</td>
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<tr>
<td>Friends</td>
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<tr>
<td>Alumni</td>
<td>189</td>
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<tr>
<td>Totals</td>
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PURPOSES FOR WHICH GIFTS WERE DONATED

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<tr>
<th>Purpose</th>
<th>1962-63</th>
<th>1963-64</th>
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<tbody>
<tr>
<td>Building Construction</td>
<td>$151,030.00*</td>
<td>$ 72,971.89</td>
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<tr>
<td>Scholarships &amp; Fellowships</td>
<td>150,285.41</td>
<td>195,254.42</td>
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<tr>
<td>Instruction</td>
<td>76,000.00</td>
<td>56,000.00</td>
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<td>Research</td>
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<td>Special Projects</td>
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<td>6,128.25</td>
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<td>Student Loans</td>
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<td>Unrestricted</td>
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<td>Library Materials</td>
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<td>1,569.10</td>
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<td>Chapel</td>
<td>2,528.98</td>
<td>1,427.50</td>
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<tr>
<td>Equipment</td>
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<td>1,345.00</td>
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<tr>
<td>Totals</td>
<td>$456,863.02*</td>
<td>$401,985.17</td>
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* Included a single foundation gift of $150,000 not received in 1963-64.

Among the allocations which have been made from the Greater UNM Fund are: to the Alumni Association for four scholarships for children of alumni; to the English Department for a collection of American fiction before 1851; to the College of Pharmacy for an electroshock apparatus to use in studying the effects of drugs; to Electrical Engineering for a vacuum gage for the solid state laboratory; to Economics for visiting Latin American lecturers in social sciences; to Fine Arts to underwrite a Fine Arts Series; to Architecture to bring guest critics for architectural design classes; to Geology for an analytical balance for the geochemistry trace element laboratory; to the Library for microfilm of the New York Times from 1913-1919.
METHODS OF GIVING

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

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

In 1954, Congress increased deductions for contributions made directly to educational institutions up to 30% of the individual's adjusted gross taxable income. Another significant provision of the federal income tax law is that which permits corporations to contribute up to 5% of taxable income for philanthropic purposes.

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

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

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

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

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

GIFTS BY BEQUEST—These donors had made specific bequests in their wills to the University of New Mexico. Such bequests are exempt from Federal estate taxes.
## THESE ALUMNI AND FRIENDS WERE HONORED BY MEMORIAL GIFTS DURING 1963-64

| Adler, Mrs. W. Scott | Fine, Coldina | Kuykendall, Georgiana | Richey, Paul E. |
| Adler, Mrs. W. Scott | Fuller, R. B. | Lalicker, Carlton F. | Rogers, Waldo H. |
| Blessing, Edith | Goodman, Robert M. | Levinson, Lillian F. | Schoen, Joseph Franklin |
| Boegun, Eva | Halama, Hilda Marie | Little, Marjorie | Schwartzman, Joseph C. |
| Bowyer, Etta L. | Harp, George | MacFarland, John | Sganzini, Ilda S. |
| Bratton, Sam G. | Haverstock, Joke | McCann, Kathleen | Shannon, George P. |
| Bresenham, Barbara Hunt | Hurt, Wesley R. | McMillen, Alonzo Bertram | Simms, John F. |
| Bresenham, Craig Elton | Irick, Portia | Martinez, Uvaldo | Smigel, Max G. |
| Bryce, Thomas C. | Kennedy, John F. | Miller, P. D. | St. Clair, George |
| Cornell, Dudley | Kluckhohn, Jane | Millikan, Mike | Suffern, William H. |
| Cramer, Carl | Korn, James Watson | Milling, James H. | Sullivan, Rudy |
| Ernest, Julian A. | Kruger, Carlisle | Parish, William J. | |
| Farone, Eva M. | | | |

## ALUMNI DONORS

### CLASSES OF 1909-19

<table>
<thead>
<tr>
<th>Anonymous</th>
<th>Bostic, Mrs. Karl '15</th>
<th>Buchanan, Mrs. Grace B. '11</th>
<th>Butler, George L. '17</th>
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</thead>
<tbody>
<tr>
<td>Balcom, Mrs. Kenneth C. '18</td>
<td>Daus, Mrs. Paul H. '17</td>
<td>Gordon, Mrs. A. May '09</td>
<td>Houston, Mrs. Herbert '19</td>
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<tr>
<td>Gass, Mrs. Rebecca H. '19</td>
<td>Hunt, Albert S. '16</td>
<td>Imhof, Mrs. Joseph '15</td>
<td>Koch, Mr. &amp; Mrs. Ferdinand A. '18</td>
</tr>
<tr>
<td>Kraxberger, Lydia T. '16</td>
<td>Lambert, Mrs. T. H. '09</td>
<td>Leupold, Mr. &amp; Mrs. Edwin '11</td>
<td>Redfield, James J. '18</td>
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<td>Kraxberger, Lydia T. '16</td>
<td>Rogers, Clarence E. '09</td>
<td>Seder, Arthur R. '11</td>
<td>Sedwick, Mrs. Helen V. '19</td>
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<tr>
<td>Leupold, Mr. &amp; Mrs. Edwin '11</td>
<td>Redfield, James J. '18</td>
<td>Rogers, Clarence E. '09</td>
<td>Seder, Arthur R. '11</td>
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<td>Rogerson, Mr. &amp; Mrs. Edwin '11</td>
<td>Redfield, James J. '18</td>
<td>Rogers, Clarence E. '09</td>
<td>Seder, Arthur R. '11</td>
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<tr>
<td>Rust, Mrs. George B. '19</td>
<td>Seder, Arthur R. '11</td>
<td>Sedwick, Mrs. Helen V. '19</td>
<td>Shuffler, Mr. &amp; Mrs. F. D. '17</td>
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### CLASS OF 1920

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<tr>
<th>Broere, Mary C.</th>
<th>Engel, Mrs. Anton W.</th>
<th>Keeler, Katherine</th>
<th>McCaffrey, Mr. &amp; Mrs. Thomas J.</th>
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<tbody>
<tr>
<td>Broere, Mary C.</td>
<td>Engel, Mrs. Anton W.</td>
<td>Keeler, Katherine</td>
<td>McCaffrey, Mr. &amp; Mrs. Thomas J.</td>
</tr>
<tr>
<td>Broere, Mary C.</td>
<td>Engel, Mrs. Anton W.</td>
<td>Keeler, Katherine</td>
<td>McCaffrey, Mr. &amp; Mrs. Thomas J.</td>
</tr>
<tr>
<td>Broere, Mary C.</td>
<td>Engel, Mrs. Anton W.</td>
<td>Keeler, Katherine</td>
<td>McCaffrey, Mr. &amp; Mrs. Thomas J.</td>
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</tbody>
</table>

### CLASS OF 1921

<table>
<thead>
<tr>
<th>Culpepper, Mr. &amp; Mrs. Charles C.</th>
<th>Fetzer, Mr. &amp; Mrs. Clair A.</th>
<th>Sganzini, William J.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Culpepper, Mr. &amp; Mrs. Charles C.</td>
<td>Fetzer, Mr. &amp; Mrs. Clair A.</td>
<td>Sganzini, William J.</td>
<td></td>
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<tr>
<td>Culpepper, Mr. &amp; Mrs. Charles C.</td>
<td>Fetzer, Mr. &amp; Mrs. Clair A.</td>
<td>Sganzini, William J.</td>
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</tbody>
</table>

### CLASS OF 1922

<table>
<thead>
<tr>
<th>Basa, Fernando F.</th>
<th>Campbell, Mrs. James A.</th>
<th>Ogg, Frank C.</th>
<th>Stephenson, Dorothy</th>
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<tbody>
<tr>
<td>Basa, Fernando F.</td>
<td>Campbell, Mrs. James A.</td>
<td>Ogg, Frank C.</td>
<td>Stephenson, Dorothy</td>
</tr>
<tr>
<td>Basa, Fernando F.</td>
<td>Campbell, Mrs. James A.</td>
<td>Ogg, Frank C.</td>
<td>Stephenson, Dorothy</td>
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</tbody>
</table>

### CLASS OF 1923

<table>
<thead>
<tr>
<th>Gerhardt, Earl A.</th>
<th>Jensen, Mrs. Leona</th>
<th>Wagner, Frederick T.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Gerhardt, Earl A.</td>
<td>Jensen, Mrs. Leona</td>
<td>Wagner, Frederick T.</td>
<td></td>
</tr>
<tr>
<td>Gerhardt, Earl A.</td>
<td>Jensen, Mrs. Leona</td>
<td>Wagner, Frederick T.</td>
<td></td>
</tr>
</tbody>
</table>

### CLASS OF 1924

<table>
<thead>
<tr>
<th>Armstrong, Mrs. Lacy</th>
<th>Gilbert, Walter B.</th>
<th>Gilliam, Samuel Idobart</th>
<th>Graham, Hugh J.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Armstrong, Mrs. Lacy</td>
<td>Gilbert, Walter B.</td>
<td>Gilliam, Samuel Idobart</td>
<td>Graham, Hugh J.</td>
</tr>
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<td>Armstrong, Mrs. Lacy</td>
<td>Gilbert, Walter B.</td>
<td>Gilliam, Samuel Idobart</td>
<td>Graham, Hugh J.</td>
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</table>

### CLASS OF 1925

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<thead>
<tr>
<th>Burrows, Daniel C.</th>
<th>Hanson, Mrs. Thomas R.</th>
<th>Harrison, Oral Dee</th>
<th>Hyde, Latif</th>
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</thead>
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<tr>
<td>Burrows, Daniel C.</td>
<td>Hanson, Mrs. Thomas R.</td>
<td>Harrison, Oral Dee</td>
<td>Hyde, Latif</td>
</tr>
<tr>
<td>Burrows, Daniel C.</td>
<td>Hanson, Mrs. Thomas R.</td>
<td>Harrison, Oral Dee</td>
<td>Hyde, Latif</td>
</tr>
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### CLASS OF 1926

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<tr>
<th>Barber, Mr. &amp; Mrs. Charles H.</th>
<th>Benjamin, Joseph F., M.D.</th>
<th>Dolce, Walter</th>
<th>Doolittle, Mrs. George</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barber, Mr. &amp; Mrs. Charles H.</td>
<td>Benjamin, Joseph F., M.D.</td>
<td>Dolce, Walter</td>
<td>Doolittle, Mrs. George</td>
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<tr>
<td>Barber, Mr. &amp; Mrs. Charles H.</td>
<td>Benjamin, Joseph F., M.D.</td>
<td>Dolce, Walter</td>
<td>Doolittle, Mrs. George</td>
</tr>
</tbody>
</table>

### CLASS OF 1927

| Brown, Charles O. | Haroun, Mrs. D. S. | McDonald, Mary M. | Matthews, Mrs. Rex |
OBSERVING THE ELECTRODE MECHANISM ARE MADELYN CHAMBLEY, DENTAL HYGIENE STUDENT, SANDRA BONHAM, NURSING, PROF. VICTOR H. DUCKE, JOHN R. RUSSELL, PHARMACY STUDENT.

ABOVE: Irreplaceable artifacts were donated to the Anthropology Museum during the year. Curator J. J. Brody is shown with exhibits from several parts of the world.

BELOW: Collection of rare medical books was presented to Library of Medical Sciences by Dr. Joseph J. Hilton, shown chatting with Robert T. Dirett, medical librarian.
CLASS OF 1928
Bryce, Mr. & Mrs. Arthur H. 
Crosso, Madeleine J. 
Forkner, Mrs. Byron H. 
Glassman, Nathan 
Hamilton, Robert L. 
Hext, Howard A. 
Kohlhas, Mrs. Lewis L. 
Maephtson, B. A., Jr. 
Oenard, Miss Mrs. James G. 
Roarden, William 
Fraser, Mrs. Anne L. 
Howden, William 
Mabry, Scott M. 
Milner, Richard 
Montgomery, Eugene C. 
Phillips, Mr. & Mrs. Homer N. 
Quinn, Wesley 
Robbie, Allen 
Trumble, William L. 
Wylie, Mr. & Mrs. Marshall J. 
Goldsworthy, Mr. & Mrs. Fred 
Hays, Guyton 
Henry, Mr. & Mrs. Joe M. 
Hibbens, Dr. Frank C. 
Krause, Glenn Russell 
Lawson, David A., Jr. 
Lee, Mrs. John W. 
Livingston, Frank 
Pooder, Clay 
Ramseger, Charles D., Jr. 
Seligman, Dr. and Mrs. Randolph 
Thompson, James L. 
Tinnin, Robert P. 
Brooks, Oliver R. 
Brown, Mrs. Jack 
Campbell, Jack M. 
Clancy, W. H., Jr. 
Cook, Margaret 
Cox, Paul C. 
Cunieo, Mrs. Fred 
Dwyer, William E. 
Easley, Robert W. 
Edwards, Grover 
Eppich, Johnny W. 
Finke, Col. R. T. 
Franchini, O. J. 
Hertelmark, Sidney S. 
Horn, Calvin P. 
Johnston, Henry R. 
Martinez, Joe L. 
Mims, Mrs. Harold H. 
Otero, Joe L. 
Paulson, Mr. & Mrs. Wilfred D. 
Reynolds, Mr. & Mrs. Steve E. 
Rowe, Frank A., M.D. 
Sheridan, John Fick, M.D. 
Shortle, J. S., M.D. 
Valdez, Tony J. 
Buck, Leothor C. 
Coleman, Mrs. Francis T. 
Doxey, Vaughan A. 
Dugan, A. C., Jr. 
Enarson, Dr. and Mrs. Harold L. 
Hagast, Charles M. 
Hofman, Richard K. 
Hunt, Mr. & Mrs. George R. 
Hutchinson, Russell J. 
Johnson, Warren L. 
Jones, Mrs. Leroy 
Jones, R. Franklin 
Knight, Robin 
MacGillivray, Finlay 
McConnell, J. H., D.V.M. 
McKaslin, John B. 
Markbury, Mrs. Blayn 
Paulantis, Mr. & Mrs. James T. 
Pine, Wilton D. 
Richards, Col. Edmund B. 
Sabin, Myron C. 
Seis, Bill 
Simpson, Alva A., Jr. 
Six, G. William 
Spaulder, James N. 
Standlee, Mr. & Mrs. Claude E. 
Watrous, Ralph M. 
Wertz, Mr. & Mrs. J. L. 
Branel, Mrs. William E. 
Brettan, Howard C. 
Cornelius, Mrs. Royce O. 
Fellin, Octavia A. 
Ferguson, James L. 
Frost, Mrs. Mary M. 
Gallacher, Mr. & Mrs. Ted S.
CLASS OF 1942
Anzures, Ben
Bluestein, Richard C.
Earle, Shirley
Good, Mr. Jeff
Guiford, Eleanor Mary
Hartman, Mrs. L. S.
Hilt, Charles M.
King, Bruce
Lauterbach, John G.
Lyons, Mr. & Mrs. Claude L., Jr.
McCanna, Mr. & Mrs. Pete F.
Nobles, Robert W.
Ortol, Charles R.
Peters, Lawrence F.
Petras, Mr. & Mrs. Roy B.
Posen, Stanley J.
Rector, Robert H.
Rich, George P.
Skidmore, S. B.
Thompson, Maurice E.
Wilson, Mrs. Henry E.
Worthington, Henry F.

CLASS OF 1943
Apodaca, Edward J.
Beckelman, Mrs. Frederick
Bush, Mrs. Spencer H.
Gleveger, M. L., M.D.
Clough, Dr. Richard
Crevenna, Theo R.
Crel, William C.
Farley, F. E., M.D.
Gambril, Beulah R.
Griego, George, Jr.
Groth, Mrs. Willis C.
James, Mrs. Frances M.
Kelen, Mrs. Victor E.
Lanier, Mr. & Mrs. Charles S.
Loscalzo, Vincent J.
MacNeil, Robert C.
McClintock, Ross A.
Mitchell, Merle
Reynolds, Mrs. George T.
Simms, David E., D.D.S.
Sweetland, Richard N.
Wickens, Robert S.
Wier, John Wiley

CLASS OF 1944
Apprill, Mrs. Gilbert P.
Bolster, Mrs. N. E.
Clerk, Mr. & Mrs. Robert E.
Deshon, Nancy Y.
Dor, Ronald V., M.D.
Goldberg, Mr. & Mrs. Joe
Hull, Roy
Leadbetter, Mr. & Mrs. Russell
Maguire, Norman L.
Parker, Frank C.
Rafferty, Keen
Robinson, Paul W.
Rosen, Gordon
Smith, Mr. & Mrs. Oscar L.
Strome, Mr. & Mrs. Thomas W.
Trevillo, Theodor T.
Walker, Mrs. Richard

CLASS OF 1945
Cheeh, Jen C.
Cornell, Murray J.
Frame, Roy A.
Frank, William F.
Greeen, E. E.
Halliburton, Jack
McDonnell, Mrs. Sanford N.
Nutter, John M.
Oglivie, Mr. & Mrs. Thomas W.
Ortiz, Mr. & Mrs. Orlando G.
Oster, Mrs. B. B.
Sanford, Medora
Sproul, Edmer
Struthers, Mrs. James F.
Ward, Mrs. Frances
Weiss, John D.
Williams, Rev. Henry L.

CLASS OF 1946
Aquilar, Lorenzo
Chevron, Pauline May
Curtis, Chauncemaud
Hall, John Robert
Johnson, Ross B.
Lynch, William B., Jr.
Nelson, R. L.
Redman, Jack, M.D.
Rohrb, Mr. & Mrs. John D., Jr.
Seib, Mrs. A. G.

CLASS OF 1947
Amighetti, Francisco
Anderian, Mr. & Mrs. George C.
Bloom, John P.
Castillo, Dr. C. Charles
Dahlgquist, Mr. & Mrs. Gunnar
Dallas, Mr. & Mrs. Wayne W.
Ellermeyer, Mr. & Mrs. Herbert
Esler, Robert M.
Hart, Thomas R.
Higginson, Mrs. Robert W.
Horton, Eleanor G.

CLASS OF 1948
Adair, R. D., Jr.
Anderson, Mrs. Henry A.
Bargerhuff, Mrs. Roger
Barr, Thelma T.
Campbell, Mr. & Mrs. Donald D.
English, Mr. & Mrs. Leroy
Foster, Mrs. Charles R.
Freburg, Kenneth H.
Gill, Raymond L.
Gins, Mr. & Mrs. Myron
Glasebrook, Mrs. Larry
Hackett, James E.
Kline, Owen Foster, Jr., M.D.
Kremer, Paul F.
Ledingham, Mrs. Gordon R.
Lyons, Mr. & Mrs. Thomas R.
McHenry, P. C., Jr.
Martel, Gordon Daniel
Matsutani, Mrs. Gene
Michael, Lillian
Morris, Thomas G.
Rah, Mrs. Leonella
Reed, Jack W.
Relkin, Marvin
Romero, Mr. & Mrs. Elita
Scheff, Martha M.
Sullivan, Major & Mrs. Whitney
Temple, Jack Verne
Thomas, Richard D.
Will, Ralph R., Jr.
Williamson, Mrs. T. A.

CLASS OF 1949
Anderson, Mrs. Homer S.
Briggs, Mr. & Mrs. William C.
Butterfield, L. Joseph, M.D.
Causey, Marvin W.
Eilar, J. S., D.D.S.
Erdman, Mr. & Mrs. William R.
Hagy, Jesse Ryan
Hawk, Gregory K.
Hawk, Robert M.
Heimerman, Q. O.
Irion, Dr. & Mrs. Frederick
Kelsey, Mrs. Charles, Jr.
Ketola, Helen M.
Levato, Dennis J.
McGlamery, Arthur, Jr.
Macuustas, Ben T.
Manfred, Mr. & Mrs. Frank D.
Mertz, Dr. & Mrs. George H.
Newman, Katherine
Opperman, Raymond H.
Price, Mrs. Margaret S.

CLASS OF 1950
Anderson, Sherburne P.
Benson, Mrs. Robert R.
Bolton, Mr. & Mrs. H. Dale
Brett, Roy Edward
Brown, Malcolm
Cappelli, Vincent
Carroll, John E.
Cates, M. Byrne
Cox, Dr. H. C.
Doetznel, Russell M.
Dorn, Donald
Doty, Mrs. Charles Steward
Dwyer, Mrs. A. L.
Elliott, Ana A.
Esparza, Robert R.
Ferrandez, Mr. & Mrs. Bonifacio
Fillingham, Mrs. Johnna
Gregory, Howard J.
Hanson, Norman W.
Hauquilt, Mr. & Mrs. George
Hook, Walter
Hopt, Elwood J.
Horton, Benjamin K.
Iten, Robert E.
Kavanaugh, Mr. & Mrs. Robert J.
Kivitt, Sidney
Klatt, Ivan J.
Klein, Robert L.
Kurkemeyer, Louis H.
Laliker, Mr. & Mrs. Robert G.
Lang, Ernest J.
Lillibridge, Jane C.
McErcynolds, Rosetta C.
Martinez, Mrs. Michael
Matthews, Mr. & Mrs. James R.
Miller, Harold L.
Miller, John J.
Miller, Robert J.
Morton, Robert E.
Muhville, Jean P.
O'Lear, Mr. & Mrs. Owen N.
Peck, Frederiek R.
Picco, Joseph
Plikard, Major & Mrs. Quinten T.
Rempel, Rev. & Mrs. Warren
Ricketts, Mary Helen
Ritchie, Mrs. James C.
Roberts, S. V.
Schaffo, Edward J.
Schreiner, Henry
Scruggs, Mr. & Mrs. John W.

Top right: Valuable collection of handbells donated to Teaching Department by Mrs. Kenneth Babcock, 21, is examined by Dr. Vincent Kelley, department chairman. They will be used for exhibitions, research, and teaching.

Below right: These works by students are among the many given to the Art Galley. To patrons and friends during the past, Len Devon Cole is gallery director.

Top left: Dr. Jerome Greenhut, Y.M.N. athletic team physician, shown with case equipment which he donated.

TOWER RIGHT: Prof. Harold Hall, author of Mark Twain and American humor, was able to purchase important rare book library, among volumes of Twain's letters, with grant provided from unrestricted funds of the G.N.Y.M.
England, Mr. & Mrs. Jack
Ferreri, Joseph R.
Gallegos, J. E.
Garcia, Frank B.
Gorry, Dorothy C.
Harrity, Mr. & Mrs. P. C.
Hensley, Mrs. Frank E.
Hubbard, Mrs. Arthur G.
Hughen, Mr. & Mrs. James C.
Hughes, Herbert H.
Kelcher, Michael L.
Lasher, Mr. & Mrs. Ward
Leach, Charles S.
McGovern, Mrs. Pauline C.
Maglid, H. Wilson
Marks, John E.
Morgan, Mr. & Mrs. Bob N.
Nickell, Judy
O’Toole, Louise S.
Park, Ralph K.
Phillips, Frances M., M.D.
Rickelson, Mr. & Mrs. Robert T.
Rowland, Gerald Lee
Schree, George M., III
Swinnerton, Mrs. Margaret J.

Class of 1957
Ash, Sidney R.
Brodsky, Robert F., M.D.
Caturcosino, Mr. & Mrs. Paul
Chambliss, Mr. & Mrs. Donald T
Chisholm, John W., M.D.
Cook, Mr. & Mrs. Earl H., Jr.
Davenport, Mattie L.
Fleming, James R.
Flores, M. Alexander
Glass, Kenneth L.
Grubesic, Mr. & Mrs. Albert L
Hardin, Edward L.
Class, Kenneth L.
Grubesic, Mr. & Mrs. Albert L
Hardin, Edward L.
McCahon, Richard J.
Madden, William J.
Martinez, Mrs. Jose R.
Mason, Mrs. Charlene
Miller, DeWayne A.
Miller, Jerry A.
Oppermann, Joann
Pomroy, Mr. & Mrs. Harry F., Jr.
Rayen, Sheldon F.
Hattliff, Mr. & Mrs. Earl D.
Reddy, George R.
Romotsky, Jerry
St. Clair, Gilbert K.
Schwanenmuller, William L.
Sci, Richard J., D.D.S.
Smith, Harrison
Stuart, Charles R.
Thorn, William F.
Ulibarri, Rodolfo

Class of 1958
Andrade, Mr. & Mrs. America
Arrallano, Mary Joyce
Bessent, Mr. & Mrs. Claude
Blair, Mr. & Mrs. Bill W.
Brooks, Mrs. John A.
Brown, Frederick S.
Brown, Robert H.
Cleveland, William M.
D’Arey, Anthony N.
Dickinson, Mr. & Mrs. William B.
Elder, John C.
Hanzel, Mrs. Frances
Harding, Mr. & Mrs. William C.
Hoffman, Julian R.
Huber, James R.
Kuckabba, Brad
Leaca, John P.
Kuechmer, Donald R.
Lowrey, Baylis N.
M’Connigle, Mr. & Mrs. John W.
McDonough, Margot A.
Marinsek, Edward A.
N’Olan, Robert L.
O’Neill, Mrs. Margaret W.
Swee, William E.
Thurston, Mrs. Benjamin E.
White, John K.

Class of 1959
Allbright, Lt. Col. William F.
Barney, Robert K.
Borreras, Rafael C.
Baxter, James W.
Breneman, Jack
Brummell, Gerald P.
Campbell, Joseph U.
Cargile, Mr. & Mrs. David N.
Chapple, Richard C.
Cole, Llewellyn J.
Crawford, Lloyd B.
Eanes, Mr. & Mrs. Robert M.
Ellis, Richard N.
Fallis, Mr. & Mrs. Richard B.
Gaccelli, Mrs. William B.
Gieswin, Charles Frederick
Granlund, Paul H.
Houchins, Lee S.
Kim, Simon H.
Koch, James H.
Lahanna, Winifred
Mugleston, Mr. & Mrs. Norman E.
Newman, Mrs. Wallace E.
Norris, Mr. & Mrs. Edward P.
Parsons, Clara Doolittle
Paynter, Ronald
Pearson, Louis W.
Piper, Leda & Mrs. Harold L.
Rios, Stephen R.
Simpson, Howard D.
Stuart, Mr. & Mrs. Joseph M.
Todt, David W., III
Ward, John P.
White, James F.
Ziegler, Mr. & Mrs. Donald L.

Class of 1960
Adams, Mr. & Mrs. John
Apodaca, Francisco A.
Ashley, Robert Clinton
Auger, Mrs. Gerald
Baker, William L.
Barker, Mr. & Mrs. J. Edward, Jr.
Bates, Mr. & Mrs. William C.
Beckwith, Bicknell K.
Benley, Frederick R.
Beckley, Stanley
Bowers, William E.
Branch, Mr. & Mrs. Turner W.
Carter, James F.
Cerri, Mrs. William T., Jr.
Clauer, Key A.
Elicerick, Mrs. Byron V.
Epley, Daniel E.
Fleming, Mr. & Mrs. Daniel
Girard, Mrs. Dan
Griffin, Gloria E.
Harvey, Byron III
Head, William J.
Henry, Howard W.
Henson, John W.
Heyda, James J.
Hudson, Elaine Metzger
Johnstone, Roger Leigh
Krieger, William
LaBauve, Ralph J.
Lambiste, Albert
Larson, John Albert
Lawson, Tom L.
Leach, Mrs. Francis S.
Lighthall, Mrs. Jack
Lodwick, Richard B.
McGranahan, Mrs. Raymond D.
McPhaul, John C.
Miner, Mr. & Mrs. John C.
Patrick, Kenneth P.
Patten, John M.
Porter, Mr. & Mrs. Raymond E.
Quist, H. L.
Redington, Dana S.
Schlecht, Dr. & Mrs. Richard C.
Segalman, Mr. & Mrs. Lee J.
Simons, James H.
Smith, Helen R.
Solomon, Mrs. Robert A. W.
Stempits, Marvin John
Stillion, Mr. & Mrs. Glenn W.
Weld, Charles E.

Class of 1961
Anderson, Robert
Boegli, William J.
Butt, Mrs. Joyce Neuber
Carlson, Mr. & Mrs. John B.
Castillo, Alvino
Chavez, Dan D.
Clarke, John C.
Cone, Samuel A.
Doolittle, Elizabeth
Ewing, Annette
Fisher, Harold D.
Fishetti, Warren F.
Forsyth, John, M.D.
Hendren, J. L.
Lambert, Paul, D.D.S.
Lane, John H. Jr., M.D.
Langley, Lt. Colonel M.
Larsen, Harry R.
Lodin, Mrs. G. Donald
McGuire, Mr. & Mrs. Frank
Medica, Velma Z.
Moore, Kenneth R.
Moss, Kenneth E.
Mueller, Mr. & Mrs. Thomas O.
Radwanski, Carl F.
Ramsey, Mr. & Mrs. John William
Smith, Louis C.
Snodgrass, Mr. & Mrs. L. E.
Valdez, Alfred A.
Van Dongen, Richard D.
Vasquez, Floyd
White, Robert C.
Wolfe, Charles Robert
Young, H. B.

Class of 1962
Allen, Jesse Byrd
Baytos, John F.
Bolduc, Mr. & Mrs. Michael J.
Bond, John D.
Brecce, Michael W.
Cattanach, Camille Agnes
Cella, Joseph W.
Collins, Ben L.
Cramond, Wallis Robert
Dalby, Syney J.
Davis, Kathryn L.
Evans, Franklin
Findlay, Jean S.
Gallegos, John C.
Gallenkamp, Mr. & Mrs. Charles
Gaspar, Mr. & Mrs. Sidney B.
Guttis, Bruce W.
Cooch, Natalie T.
Hall, Wilma J.
Hansen, Alexander N.
Harrison, George S.
Herrera, Eleanor H.
Husted, Joseph E.
Jelen, Brian J.
Kuhl, Charles A.
McClure, Carroll E.
Mader, August, Jr.
Meister, Mr. & Mrs. J. David
Moryn, William C.
Michelson, Mr. & Mrs. Jack T.
O’Neal, Robert Dawson
Rollins, Marie
Salomon, Marrian P.
Seaver, Kenneth W., Jr.
Studer, Magnus P.
Thomas, Pauline
Troy, Daniel L.
Weber, Mrs. Russell E.
LEFT TO RIGHT: Guy Wimberly, journalism major, Ira Harge, education, Eddie Stokes, mechanical engineering, and Bernie Rivers, University College, are only three of many student-athletes who received grants-in-aid during the year from funds contributed by the New Mexico Boosters Club and many other individuals and organizations interested in the excellence of UNM athletics. Wimberly, Harge and Stokes are members of the Skyline Championship football, basketball, and golf teams respectively. Rivers is an outstanding sophomore track man. The "Surry with the Fringe on Top," manned by Athletic Trainer Tow Diehm and Athletic Business Manager John Doliszadelli, was donated by the Coca Cola Co. of Albuquerque and is used to run errands around the stadium, and transport handicapped spectators.

Honor Classes by No. of Donors:

<table>
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<th>Year</th>
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Honor Classes by Contributions:

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FRIENDS

Ackerman, P.
Adams, Clinton
Adler, Stuart W., M.D.
Agnew, Nikki
Alarid, Malcolm
Allbright, Horace M.
Allday, Luis
Alexander, Dr. Hubert C.
Alford, Ralph L., M.D.
Allen, Francis C.
Allen, Mrs. J. W.
Anderson, Clinton P.
Anderson, Maxie L.
Andrews, Mr. & Mrs. Frank
Anonymous
Anspach, Ernest
Arta, Bill
Armitage, Merle
Arms, Dr. George
Armstrong, Charles J.
Arraj, Alfred A.
Austin, S. V.
Avery, Jennie
Baca, Andy
Bachelis, Mr. & Mrs. W. M.
Baerwald, Mrs. Eva
Balcom, Dr. Archie J.
Ballew, Virginia
Ballillie, Stuart
Baker, Dr. George L.
Baldwin, Mr. & Mrs. George S.
Baldwin, William A.
Ball, Ralph A.
Barlow, J. R., M.D.
Barrett, Dr. Martin D.
Barriger, John W.
Bartholomew, Ed
Batcheller, Dr. John

Bater, Esther Willard
Baum, John A.
Baxter, L. H.
Beasley, Oscar
Beekman, Rexford S.
Beddo, James
Belmonte, Mr. & Mrs. Anthony
Berg, Ann
Bevill, George
Bibbo, Mr. & Mrs. Arthur
Bice, Mrs. Richard A.
Billalao, Benjamin
Birdseye, Henry S.
Bixby, Frank, Doris & Pat
Blackman, Bill
Blumenschein, Helen
Boaz, Ed
Borbellio de la, Dr. D. F. Rubin
Bergoltzhaus, Miriam & Jeffrey
Boyd, John F., M.D.
Boyd, Off
Bradley, Mr. & Mrs. Edward L.
Brandenburg, Mrs. Jack
Braun, C. M.
Brechman, H. L., M.D.
Brink, Mr. & Mrs. Paul E.
Brown, Judge & Mrs. Wesley E.
Bryar, Mr. & Mrs. W. D.
Bryce, Mrs. Mary A. C.
Buono, Pablo A.
Bullock, Robert
Bundes, Mr. & Mrs. C. C.
Bunten, Daniel L.
Bunting, Dr. Bainbridge
Burk, William E., Jr.
Burleigh, R. W.
Burley, Dr. Lloyd
Burrola, Dan

Burney, Miss V. M.
Bush, Donald
Butts, Carl
Cahoon, T. W.
Campbell, Governor Jack M.
Campbell, Thomas D.
Cann, Mrs. Herb
Canova, Madeline
Carey, Michael L.
Carr, Dr. & Mrs. T. L.
Carroll, Bill C.
Carson, Cale W., Jr.
Carter, Frank L.
Carter, Isabel
Case, Mr. & Mrs. Lawrence
Cashman, Puma, Jr.
Castle, Dr. Raymond
Castles, Mr. & Mrs. C. J.
Catalline, Dr. Elmon L.
Chung, C. C.
Chavez, Mr. & Mrs. Roy
Chiavario, Rich
Clark, Marian L.
Clark, Mr. & Mrs. Thomas W.
Clauser, A. R., M.D.
Clino, Dorothy
Cloward, Paul P.
Coots, Mr. & Mrs. B. C.
Cohen, Mr. & Mrs. Louis
Colle, Van Deren
Colby, Edward
Colin, Ralph F.
Condit, Leroy
Conway, Bob
Cook, Mary Jane
Cook, Mrs. Mildred E.
Cooper, Mr. & Mrs. Richard G.
Corcoran, John J., M.D.

Corn, Mrs. George
Corr, Tom
Cowley, L. W.
Cox, Ernest Sayer
Friends of Carl Cramer
Crenshaw, Virginia
Crim, Mrs. William D.
Crofton-Atkins, Mrs. B.
Cronan, Frank
Crosby, G. A.
Crow, Mr. & Mrs. Alfred
Cunningham, P. R.
Curtis, Dr. Charles A.
Curtis, Gerald G.
Custer, George E.
Cuzart, Senator Jose Reca
Dubbs, J. R.
Daley, Joseph L., Jr.
Dalmaso, Mrs. Sallye
Dunciger, Jack
Dusburg, Andrew
De Baca, Albert C., Jr.
De Baca, Al & Janet
DeForest, Mrs. Elizabeth
Del Pilar, Ruben
Denzler, S. Russ, M.D.
Devers, Mrs.
DeVolder, Arthur L.
DeWaal, Ronald Burt
Diaz-Verson, Salvador
Dietrich, Mrs. Jack
Dietzel, Russell W.
Dimbeck, Richard
Divett, Robert T.
Dixon, H. W.
Donley, Don, O.D.
Dornacker, Mr. & Mrs. John
Drummond, Mr. & Mrs. Harold D.
Duliois, Dr. Donald
Duke, Dr. Victor
Dunn, Leo
Durant, Tony
Durbin, Ray
Durrel, John N.
Dutilla, Mary L.
Dyart, Stella
Eilenberg, Dr. & Mrs. Samuel
Elder, Elizabeth
Elder, Charles A.
Ellermeyer, Mrs. Louise M.
Ellis, Dr. Florence H.
Elsworth, Thomas T.
Epstein, Mr. & Mrs. S. A.
Ernest, Evelyn C.
Epstein, Mr.
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Every effort has been made to compile a complete and accurate report of gifts to the University of New Mexico for the past year. Any omission from or errors contained in this report are sincerely regretted. The Development Office will appreciate notification of such omissions or errors.
Above: Dean Clinton Adams of Fine Arts and Prof. Joseph Blankenship, chairman of music, center about a series of concerts and exhibits to be underwritten the first year by a grant from unrestricted funds.

Top left: Al Valdez, '61, chairman of the Alumni Assn. High School Achievement Awards Program, chats with Joe Ruiz and John Del Mar, winners at Albuquerque High School. Greater UNM Fund matches scholarship monies raised by local clubs for these and 21 other recipients.

At left: Don L. Roberts, Fine Arts librarian, demonstrates recording equipment purchased from unrestricted contributions. It will be used in setting up a Southwestern Music Archive for the Fine Arts College.

Lower left: Allocation of $800 from The Greater UNM Fund enabled the English Department to obtain a collection of American fiction before 1931. Chairman Franklin Dickey, Prof. E. Baughman, inspect books.

Below: Many drugs used in the Student Health Services are contributed by pharmaceutical companies. Checking supplies are Dr. Ivan L. Shand, assistant director, and Dr. A. Kenneth Young, director of Services.
Air Force Aid Society
Air Force Central Welfare Fund
Air Force Recruiting Office
Air Force Weapons Laboratory
Albuquerque Bar Association
Albuquerque Board of Education Staff
Albuquerque City Panhellenic
Albuquerque City Planning Department
Albuquerque Classroom Teachers Assn.
Albuquerque Country Club
Albuquerque Gem & Mineral Club
Albuquerque Lawyers Club
Albuquerque Lions Club
Albuquerque Lambda Merchandisers Assn.
Albuquerque Public Library
Alpha Delta Pi
Alpha Delta Pi Alumnae
Alpha Kappa Alpha
American Assn. of University Women, Albuquerque Branch
American Assn. of University Women, Midland Branch
American Chemical Society
American College of Surgeons
American Institute of Architects, N.M. Chapter
American Medical Association
American Petroleum Institute, Southwestern N.M. Chapter
American Society for Quality Control
Anti-Defamation League of Albuquerque
Anti-Defamation League of B’Nai Brith
Arthritis and Rheumatism Fd., N.M. Chapter
Associated Contractors of N.M.
Associated Grocers of Colorado Bandelier PTA
Baptist Convention of N.M.
Bernalillo County Council of PTA
Bernalillo County Courthouse Employees
Bernalillo County Heart Assn.
Bernalillo County Indian Hospital
Bernalillo County Medical Assn.
Bernalillo County Medical Society Auxiliary
Bernalillo County Tuberculosis Assn.
Beta Sigma Phi, City Council Blue Cross Employees Assn.
BPOE, Lodge #46L, Albuquerque
BPOE Lodge of Carlsbad
BPOE Lodge #1440 of Gallup
Cambridge Mass. High School & PTA, Latin Scholarship Center for the Study of Democratic Institutions
Cerrillos Masonic Lodge #19 AF & AM
Chi Omega Alumnae
Child Study Center
Christian Science Organization
Cuban Refugee Program
Dairy Council of the Rio Grande Valley
Daughters of Penelope
Daughters of U.S. Army
Delta Kappa Gamma Alumni
Donna Ada Country Bar Assn.
Downtown Lions Club, Hobbs
Elite Ladies Club
FAA "B" Crew
Fellen Angel Parachute Club
Farmington Duplicate Bridge Club
Fire Fighters Union, Station #11
Forensic League
Fort Summer High School
The Forty and Eight Grand
FortUNE of N.M.
The Forty and Eight Vote 703
Friends of The College of Nursing
Gallup Boosters Club
Gallup McKinley County Education Assn.
The German Consulate
Girard Baptist Church
Greater Albuquerque Chamber of Commerce
Greenvich Democratic Women’s Club
Group Health Assn. of America
Heights Optimist Club
Highland Kiwanis Club
Hillcrest Garden Club
Historical Society of N.M.
Hobbs City Council of PTA
Home Builders Assn. of N.M.
Hot Springs Women’s Club
I.O.O.F. #7 of Deming
Institute of Electrical & Electronics Engineers
International Assn. of Machinists Jr. Chapter of Commerce
Kappa Kappa Gamma Alumnae
Kennedy Book Club
Kenny Rehabilitation
Kiirtland Dental Clinic
Kiirtland Officers’ Wives’ Club
Kiwani Club of Albuquerque
Kiwani Club of Carlsbad
Kiwani Club of Los Alamos
Kosher Garden Club
LaKE Arthur Masonic Lodge #35
Latin American Deak
League of United Latin American Citizens
Los Alamos Lions Club
Los Alamos Medical Center
Hospital Auxiliary
Lulur Council #359
Mark Twain PTA
Mesq Lodge #68 AF & AM
Museum of Navajo Ceremonial Art
Museum of New Mexico
National Assn. for the Advancement of Colored People
Navajo Tribal Museum
The Newcomen Society in North America
New Mexican Air National Guard Technicians
New Mexico Amigos
New Mexico Art League
New Mexico Assn. for Mental Health
New Mexican Club
New Mexican Congress of Parents & Teachers
New Mexican Daughters of American Revolution
New Mexican Department of Public Health
New Mexican Fellows of the American College of Trial Lawyers
New Mexican Folklore Society
New Mexico Garden Clubs
New Mexico Medical Society
New Mexican Motor Carriers Assn.
New Mexico Municipal League
New Mexico Petroleum Industries
New Mexico Pharmacy Assn.
New Mexico Professional Chapter of Sigma Delta Chi
New Mexico Society of Internal Medicine
New Mexico Society of Professional Engineers’ Wives
New Mexico State Elks Assn.
New Mexico State Nurses Assn., Dist. #1
New Mexico State Nurses Assn., Dist. #12
New Mexico Tuberculosis Assn.
New Mexico Wood Growers
North American Indian Club
Office of the Surgeon General
Pajarito Lodge #66 AF & AM
Pan-American Round Table
Petal Pushers Garden Club
Pi Gamma of Chi Omega
Pi Lambda Theta
Pilot Club of Albuquerque
Presbyterian Church Board of Christian Education
Procurement Office, KAFB
Progress Woman’s Club
Public Welfare Department of Bernalillo County Employees’ Fund
Pueblo de Laguna
Rhode Island State Scholarship Program
Rio Grande High School
Roswell Area Council of PTA
Santa Fe Railroad Equipment & Repair Shop
Sandia Base Fire Department
Sandia Base Engineers
Sandia Base Hospital Staff
Sandia Base Women’s Club
Sandia Corporation, Ridgway 660
Sanita Corporation Library
Sanita High School Ivy Club
Sandia Kiwanis Club
Santa Fe Classroom Teachers Assn.
School of American Research
Sigma Alpha Iota Patrons
Sigma Chi Mothers Club
Sigma Tau Fraternity
Soroptimist Club
Southern Union Home Economist & Sales Dept.
Southern Ute Tribe
Southwestern Pine Assn.
St. Louis Football Cardinals
State of Georgia
Students, Hawthorne School
Students, John Adams Jr. High School
Students, Sandia High School
Students, Valley High School
The Study Group
Teas Public School PTA
Temple Lodge #6 AF & AM
Theta Sigma Phi Professional Chapter
United Presbyterian Church (Eunice)
United Scholarship Service for American Indian Students
UNM Chi Omega
UNM Delta Delta Delta
UNM Delta Gamma
UNM Delta Sigma Phi
UNM Faculty Wives’ Club

ORGANIZATIONS

ninetynineteen
Baldridge Barker Business Equipment
Bank of New Mexico
Darnt'sy A & Automotive
American Amerkan American Alvarado Television Company
Allen Title
All-State
Albuquerque Bus Company
Albuquerque Federal Savings & Loan Assn.
Albuquerque Gravel Products Company
Albuquerque Jewelers
Albuquerque Journal
Albuquerque Lumber Company
Albuquerque Moving & Storage Company
Albuquerque National Bank
Albuquerque Industrial Development Service
Albuquerque Pet Cemetery
Albuquerque Petroleum Club Walters
Albuquerque-Phoenix Express
Albuquerque Stationery Company
Albuquerque Tennis Shop
Albuquerque Typewriter Exchange
Albuquerque Veterinary Clinic
All-State Insurance
Allen Title Company
Alvarado Television Company
American Automobile Assn.
American Bank of Commerce
American Builders
American Community Life Insurance Co.
American Gypsum Company
American Furniture Company
American Savings & Loan
Amherst Liquors
Clinton P. Anderson Agency
A & S Rentals
Automotive Acceptance Corporation
J. C. Baldridge Lumber Company
Baldridge Supply Company
Bank of New Mexico
Barker Business Equipment
Barney Barnett Company

UNM Golf Asn.
UNM Inter-Fraternity Council
UNM Kappa Alpha Theta
UNM Kappa Kappa Gamma
UNM Los Companas
UNM Newman Center
UNM Phi Kappa Phi

UNM Phi Sigma Kappa
UNM School of Law
UNM Sigma Alpha Epsilon
UNM Sigma Alpha Iota
UNM Sigma Chi
UNM Quintessonta
U.S. Public Health Service

U.S. Army Corps of Engineers, Drafting Section
Valley Gardeners Club
Van Buren Lodge #48 AF & AM
VMCCA Santa Fe Chapter
Wesley Foundation of the Methodist Church
Western Electronic Mfg. Assn.
Women's Auxiliary of New Mexico Drug Travelers Assn.
Women in Construction
Women's Society of Christian Service
Zonta Club of Albuquerque

B & D Electric Company
Bensus & Colberg
H. Beck News Agency
Bell Tire Company
Benjie's Service
Berger, Briggs, & Company
Bernaadette Plumbing
Billico Carpet Company
Frank Blean Chevron Service
Builders Materials
Blue Cross Animal Clinic
Bluher Lumber Company
Bob's Meats
Bonded Plumbing & Heating
Bonnembe Beauty Salon
Ted Boyd Company
Bradbury & Stamm Construction Co.
Brennan's Men's Shop
Bridgers & Paxton
Broadway Sales Company
Joe E. Browne Pharmacy
Budget Rent-A-Car of New Mexico
Bureau of Medical Economics
Business Promotion Service
Canada Dry Bottling Company
Carbolic Chemicals Corporation
Carl's Drive-In
Carlisle Liquors
Carper Drilling Company
(Artesia)
Carter & Company
W. M. Carrol & Company
Casto, Lucas & Jones
The Cavern Supply Company
(Carlsbad)
Central New Mexico Assn. of Life Underwriters
L. H. Chant Electric Company
Clarke-White Truck Sales
Coca Cola Bottling Company
J. D. Coggins Company
Cole Hotel Parking Lot
Colletto's Flower Shop
H. Cook Sporting Goods
Combined Insurance Company of America
Comer & MacGillivray (Santa Fe)
Conniff Super Market

Conservancy Oil Company
Consolidated Agency
Continental Realty
Contract Carriers
Contractors Equipment & Supply Co.
The Cornelius Company
Crosgeb Appliance
Credit Bureau of Albuquerque
Crego Block Company
Crest Tile Company
Crown Television
Cunningham Distributing Company
Custom Interiors
Dale's Liquor Store
Darrow Ice Cream Company
Davis Brothers
Davis Sign Company
Denham, Varnell & Youngberg
Desert Inn Motel
Design Engineers Corporation
Diamond Jim's
Dorsey Lobo Pharmacy
Dorothy Gray's Dress Shop
Duke City Lumber Company
Duffy Upholstery
Earl's Barber Shop
Howell Earnest Agency (Santa Fe)
D. W. Eskin Company
East Mesa Auto Electric
Echlin-Irwin-Cowell & Company
Eckert's
Ed's Super Market
Electrical Products Company
ElectroLux Corporation
Dan Ely Buick
El Paso Natural Gas Company
Delgado's El Paso Station
Emmons Oil Company
Embrionica Britannica
Enrico's M&R Liquors
Equipment Rental & Sales Company
Equipment Sales Company of N.M.
Ever-Ready Oil Company
Excelsior Laundry
Jack Fahl Agency
D. W. Falls, Inc.

Family Pharmacy
Farmer's Daughter Drive-In
Flock & Shaffer Insurance Agency
Ferguson, Stevens, Mallory & Pearl
Fiesta Lanes
First National Bank
First National Bank of Santa Fe
First State Bank of Socorro
First State Bank of Taos
Flaming Pools
Forest Products Company
Fox-Vilet Drug Company
Francisco Shops
Frank's Supply Company
French-Fitzgerald Mortuary
Clay Fultz Insurance Agency (Gallup)
Clean's Roundup Drive-In
GAC Finance Company
G&D Brokerage
Galles Motor Company
Lou Gerdin Agency
Gem Liquors
Gordon Printing Company
Grand Liquors
Grantham, Spann & Sanchez
Greene Oil Company
Green's Sanitary Specialties
Griffin's Appliance Center
The Guarantee, Inc. (Santa Fe)
Jerry Haggard Company
Halbert's Cabinet Manufacturers
Hannett, Hannett and Cornish
Harris Mfg. Jewelry
Happy Toy Kennel
Harrison Smith Construction Co.
Healy-Matthews Stationers (Santa Fe)
Heaston-Rohla Motor Co.
Henry's Five Men's Wear
Howard W. Henry & Company
Herkeshoff & Associates
Hernandez & Atkinson
Hertz Rent-A-Car
Hesselden Construction Company
Highland Pharmacy
Hiway House
J. A. Hogle & Company
Home Savings & Loan Assn.
Homestake-Sapin Partners
(Grants)
Horn & Wallace Publishing Co.
Hospital Service
Hyder Brothers, Inc.
Iden & Johnson
Charles Ilfeld Hardware Company
Illinois-California Express
Imperial Laundry Company
International Business Machines
Jet Electronics
Jill's Bakery
Joe's Inn
J. W. Jones Construction Co.
Karl's Shoes
KDEF Radio Station
Keanecott Copper Corporation
(Hurley)
Kinney Agency
Kinney Brick Company
Kinsella Glass Company
Kirkland Realty
Kistler-Collister & Co.
KOAT-TV Radio and Television
KOB Radio and Television
W. C. Krugcr & Associates
(Santa Fe)
KTVA—Northern Television
LaCueva Hotel (Gallshad)
Larry's Liquor Store
Larry's Market
Las Lomas Meat Company
Lambke Construction Company
Lee's Liquors
Lee's Zia Service
Lively Equipment Company
Lloyd McKee Motors
Lomas Lloyd
Lydick Roofing Company
McDonald Electric
Ma's Italian Kitchen
Mac Auto Company
Mac's Dry-Cleaning Service
Mac's Sink-in-the-Hough
Mahona Dress Manufacturing Co.
Joe C. Maloof & Company
Manpower, Inc.
Manufacturers Hanover Trust Company
Marberry Construction Co.
Mario's Lucky Pizza
Markham Advertising Company
Master Cleaners
Mattingly Oil Company
Menaul Lounge & Package Store
Meyer Motor Company
Miller & Smith Manufacturing Company
Medrail, Seymour, Sprirling, Reoch & Harris
Mine & Smelter Supply
Montgomery Ward
Mori's Lounge & Liquor Store
Morimoto's Market
Morton's Quality Foods
Mountain States Insurance
Mountain States Telephone & Telegraph Company
Murdoch Brokerage Company
Mutual Building & Loan
Mutual of Omaha
Nanina's Cemarvany Farm
Nationwide Finance Company
Ned's Package Liquors
Necly Enterprises
New Mexican Kennels
New Mexico Employment Bureau
New Mexico School Supply Company
New Mexico Selling Company
New Mexico Steel Company
New Mexico Title Company
New Manufacturing Company
Northaus & Nees
Okie Joe's
Orah Lee's Beauty Salon
Edgar D. Otto & Son
Packard Instrument Company
Pan-American Trust Company
Parachute Shop
Paloma Bar
Park Avenue Cleaners
Paris Shoe Stores
Patterson's
Pat, Marvin, Mitchell & Company
Penn Mutual Life Insurance Company
Penney's Winrock
Peoples Flower Shop
Phillips Mercantile Company
Pickett & Van Ladingham
Piggly Wiggly Shop Rite Foods
Pillbox Pharmacy
Plasco
Plumbers' Specialty Company
Portland Cement Assn.
Porter J. Construction Company
Postal Insurance Company
Premiere Florists
Pride Homes
Prince Advertising & Public Relations
Princeton Food Market
Professional Pharmacy
Pujo Petroleum Corp.
Public Service Co. of N. M.
Purity Pharmacy
Quinn & Company
Rainbo Baking Company
Rake's Variety Store
Raker Rexall Pharmacy
Realty Mortgage & Investment Company
Red Top Maintenance Service
Rena-Ware Distributors
Remo Electric Company
Resort Publishing Company
N. C. Riddle Company
Richard Distributing Company
Richardson Ford Sales
Riley Hearing Aid Repair Service
Rio Grande Steel Products Co.
Rio Grande Title Company
Rocky Mountain Roofing Company
Rocky Mountain Wholesale Company
Rodey, Dickson, Sloan, Akin & Robb
Rogers Electric Company
Rust Tractor Company
George A. Rutherford, Inc.
Sandia Finance Company
Sandia Savings & Loan Assn.
San Mateo Osteopathic Service
Sanitary Laundry
Santa Fe Builders Supply Co.
Santa Fe Motor Company
(Santa Fe)
Savage & Spandini
Save-Way Liquors
Schooelder & Wilson Pharmacy
SCM Corporation
Seligman, Thomas & Faber
Service Cleaners
Seven-Up Bottling Company
Seymour Lannier Company
Shaffer & Butt
Shaw Mobile Homes
Sherr's
Silver Steel Company
Silver Spur Restaurant
Simms Bldg. Barber Shop
Simms, Robinson & Garcia
Simon's
The Smoke Shop
Southern Union Gas Company
Southwest Brokerage Company
Southwest Claims
Southwest Distributing Company
Southwest Engine Company
Southwest Insurance Agency
Southwest Moving & Storage Co.
Southwest Rubber Stamp Company
Spatzmeister's
Springer Transfer Company
St. Paul Western Insurance Co.
Standard Mortgage Company
Standard Oil Co. of Texas
Star Oil & Tire Company
State Distributing Company
State Farm Insurance
Stormberg's
Strong-Thorne Mortuary
Stryco Sales, Inc.
Sun Drug Company
Super Oil Company
Sutin & Jones
Lyle Talbot Agency
Toll Girl Shop
Terry's Fashion Shop
Terry Hearing Aid Service
Tiano Sporting Goods Co.
(Santa Fe)
Tito's Tavern
Toby's Truck Sales
Dwight Tepa State Agency
Toppino-Golden Agency
Tore Photography
Town House Cocktail Lounge
Town House Motor Hotel
Transportation Advertising Co.
Triangle "C" Ranch
Triple H. Investment Company
Tri-State Builders
Tri-State Dental Supply Company
Uhl & Lopez Engineers
United Furniture Company
United Oil Company
United Wholesale Liquor Company
Universal Constructors
University Book Store
Valley Shopper
Villa Capri Beauty Salon
Wa-Co Heating & Air Conditioning, Inc.
Walker & Hinkle Inc.
Wese Automotive
Weigley Agency
West Furniture Company
West Side Drug Store
Western Auto Sales
Western Personnel Consultants
Westinghouse Electric Company
White Stores
White's Winrock Barber Shop
White Wing Hotel
Winarock Merchants Association
Wright's Trading Post
Wyler Investment Co.
Wylie Brothers Contracting Co.
Zia Oil Company
Zia Service Station
Zork Hardware Company of N.M.
BUSINESS • NATIONAL

Abbott Laboratories
American Smelting & Refining Company
Aztec Oil & Gas Company
Bristol Laboratories
Burroughs-Wellcome & Company
Chevron Oil Services
Ciba Pharmaceutical Company
Dawson, Nagel, Sherman & Howard
Dome Chemicals
Eli Lilly & Company
Endo Laboratories
General Motors Corporation
Gifford-Hill Pipe Company
Hamilton Watch Company
Herman Construction Company
Ideal Cement Company
International Business Machines
Lawyers Title Insurance Corp.
Lederle Laboratories
McNeil Laboratories
Merck Sharp & Dohme
Wm. S. Merrell Company
Occidental Life Insurance Company of North Carolina
Pan-American Petroleum
Parks Davis & Company
Pitman Moore Company
Richardson-Merrell, Inc.
A. H. Robins Company
Roche Laboratories
Schering Corporation
Socony Mobil Oil Company
Smith, Kline & French Laboratories
Spencer Chemical Company
E. R. Squibb & Sons
The Upjohn Company
Universal Oil Products Company
U.S. Vitamin Corporation
Warner Chilcott
Westwood Pharmaceuticals
White Laboratories
Wyeth Laboratories

FOUNDATIONS, ESTATES AND MISCELLANEOUS

ACF Foundation
Allstate Foundation
Allied Chemical Foundation
American Foundation for Pharmaceutical Education
American Medical Association Education & Research Foundation
Animas Scholarship Fund
Bell, Thomas S. (Trust)
Bollingen Foundation
Burgoyne, Thomas H. (Estate)
Burkhart-Parsons Memorial Fund (Trust)
Carson, Caroline T. (Trust)
The Commonwealth Fund
Espanola High School Activity Fund
Esso Education Foundation
Feinstelher, Joe (Trust)
Ford Foundation
Ford, S. N. and Ada (Trust)
Fortin Foundation
Funds for Education
Gifford Foundation
Girard Trust
International Peace Scholarship Fund
Ives Memorial Trust Fund
Jackling, Daniel C. (Estate)
Kellogg, W. K. Foundation
Kruger, W. C. Foundation
Leonard, Harry (Trust)
Mahon, Helen (Trust)
Margaret Fund
Mise, Trust Funds
National Merit Scholarship Corp.
National Science Foundation
National Vitamin Foundation
Pittsburgh Plate Glass Foundation
Presser Foundation
Pullman, George M. Education Foundation
Rockefeller Foundation
Rogers, Millicent A. Foundation
Sandia Foundation
Sanders, Dora Scholarship Fund
Smith, Kline & French Foundation
Tektronix Foundation
Tissue Foundation
University of The Andes Foundation
Western Electric Foundation
Wurlitzer, Helene Foundation of New Mexico

For additional information on wills and bequests made in favor of the University of New Mexico or on the establishment of other gifts to the institution, write the Development Office, 245 New Mexico Union, the University of New Mexico, Albuquerque, or call 243-8611, ext. 606.
1963-64
BOARD OF DIRECTORS
The Greater UNM Fund

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THE REPORT OF THE DEPARTMENT
OF INTERCOLLEGIATE ATHLETICS

July 1, 1963 - June 30, 1964

Pete McDavid
Athletic Director
I. Significant Developments during the Academic Year - 1963-64

At the varsity level our teams have competed in the following sports: football, basketball, track, cross country, baseball, tennis, wrestling, swimming, golf and gymnastics. Freshman teams played regular schedules in football and basketball and also competed in a limited number of contests in tennis, golf and baseball.

Our second year as a member of the Western Athletic Conference proved to be the most successful in the history of our institution. Five Conference Championships, out of a possible 10, were won by our varsity teams.

Coach Bill Weeks' "Lobos" won the 1964 grid title, marking the second straight football championship at the University of New Mexico.
Captain Eddie Stokes was named "Lineman of the Week" by the Associated Press, the first time a Lobo Lineman has been so honored. In addition, he received the following honors:

First team Center on the Official All-Conference Team.
Western Athletic Conference Lineman of the Year.
Conquistadores Trophy as Lineman of the Year.
Brannin award for most valuable player of the Year.
Golightly award for best Defensive Player of the Year.

Jack Abendschan, guard, and Wayne Tvrdik, tackle, were also named to the Official All-Conference team.

Another new attendance record was established with a total of 125,822 fans turning out for six home football games.

Coach Bob King's basketball team turned in the best ever won-lost record (23 - 6) and won a share of the Conference title with Arizona State University. The team added lustre to the Conference crown by finishing second in the National Invitational Tournament in New York City. The Lobo Basketball Team was ranked fourth nationally in defense, fifth nationally on rebound percentage and eighteenth on a National Team Poll.

Coach King was named Western Athletic Conference Coach of the Year.

Co-Captain, Ira Harge, climaxed two brilliant years at UNM by setting a new scoring record and being named to the
following All-Star teams:

Western Athletic Conference
National Invitational Tournament
National Collegiate Athletic Association -
All District 7.

A total of 73,807 fans, a new record, were in attendance at home games, including 6 "sellouts".

Track Coach Hugh Hackett's squads climaxed a fine season by winning both the cross country and track Conference Championships. Edward Coleman was the individual cross country champion. Our sprint relay teams were among the fastest in the country and competed several week-ends on the West Coast before nationally televised audiences.

Individual Conference Championships were won by the following:

John Baker        Mile
Don Lehman        Pole Vault
Fred Knight       440 Hurdles
Larry Kennedy     Discus
& the NCAA Championship

The 440 yard relay team were Conference Champions. Bernie Rivers tied the existing Freshman World's Record in the 100 yard dash (9.3) and set a new record in the 220 yard dash (20.6). He also was a member of the United States Squad, competing against the Russians and is a prime prospect for the United States Olympic Squad.
In Golf, the Lobos won their second straight Western Athletic Conference Championship. It was also Coach Dick McGuire's eighth consecutive Conference title.

The Swimming team had a fine year and was second in the Conference. Tom Mellars was the individual champion in the 100 yard butterfly, setting a new record (54.4). Albert Rhudy was the 100 yard free style champion. He also set a new record (1.53).

The Wrestling team finished in fourth place in the Conference meet and Marty Lyman was the 157 pound champion. Wyoming was defeated by UNM for the first time in a dual meet and UCLA was defeated in an initial series.

The Tennis team was fourth in Conference play. Steve Foster and Jeffrey Quinn, both underclassmen, showed great potential for the future by finishing second in doubles play.

The following attractions were held this year in Johnson Gymnasium:

1. New Mexico Education Association Annual Convention.
2. New Mexico High School Basketball Tournament.
3. New Mexico High School Swimming Tournament.
4. New Mexico High School Wrestling Tournament.
5. New Mexico High School Band Festival.
6. New Mexico High School Cheerleaders Clinic.

7. Western Athletic Conference Swimming Championships.

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

1. New Mexico High School Track Championships.
2. New Mexico High School Golf Championships.
3. New Mexico High School Tennis Championships.
5. New Mexico High School Activities Association Wrestling Clinic.
6. New Mexico High School Coaches Association - Downtown Lions Coaching School and All Star Basketball and Football Games.
7. State-wide Gymnastics Clinic.
8. Annual Fall Tucker Golf Tournament.
9. Southwestern Tennis Championships.

II. Significant Plans and Recommendations for the near Future.

The University of New Mexico will serve as the host institution during the 1964-65 season for five of the Western Athletic Conference Championships.

Cross Country will be held here on November 14th, Wrestling on March 12th and 13th, and Track, Golf and Tennis on May 21st and 22nd.

The Annual Spring Meeting of Faculty Representatives
and Athletic Directors will also be hosted by the University of New Mexico. This is a further indication of the high regard which people in athletics have for our fine facilities and the manner in which our staff conducts such functions.

Eight new laykold tennis courts were completed and put in full use last year.

Further progress was made relative to expanded and needed facilities in the University Stadium area. Final approval has been given for construction of a new baseball field and two new multi-purpose practice and play fields. These are expected to be ready for use during the 1965-66 academic year. Further studies and evaluations are being projected in relation to the continuing increase in football and basketball attendance.

In football, the Air Force Academy game drew 29,098 fans, setting an all time high for a single game attendance, just 992 short of capacity. Six basketball games drew better than 6,000 people for each contest. Students were allotted a total of 3,000 seats in basketball and were asked to pick up tickets on a "first come - first serve" basis prior to each game. Increased enrollments, and the continuing population increase in the Albuquerque area, necessitates further study relative to these problems and needs.
III. Outside Professional Activities of Staff Members.

The University Athletic Staff is well represented on the important National Collegiate Athletic Association Rules Committees.

The following are presently serving:

- Baseball - George Petrol - Completing a four year term.
- Track - Hugh Hackett - Beginning a four year term.
- Golf - Dick McGuire - Beginning a five year term.

IV. Appointments to Staff.

Harvard Schmidt - June 1, 1964

V. Separations from Staff.

Sam Miranda - June 1, 1964
The Report of the Office of the University Architect  
December 1, 1963 - June 30, 1964 
Van Bora Hooker, University Architect 

In 1963 the idea of establishing an office on the campus to coordinate planning and construction of new facilities was approved and the Campus Planning Committee was given the task of selecting a person for this position. Van Bora Hooker, who had been an architect in private practice in Santa Fe since 1956, was selected and began on a half time basis in December and on full time status on January 1, 1964.

The "Office of the University Architect" was chosen as the name of this department since it is a professional position and should always be headed by a person licensed to practice architecture in New Mexico.

A very comprehensive outline of the functions of this office had been prepared by the Campus Planning Committee and in general the pattern of work has followed these lines. The outline follows:

SUGGESTED FUNCTIONS AND RELATIONSHIPS OF ARCHITECT PLANNING OFFICER 
AT THE UNIVERSITY OF NEW MEXICO

ARCHITECTURAL FUNCTION

A. New buildings

1. Development of program
2. Selection of sites
3. Establishment of space and dollar budgets
4. Recommendation of architects
5. Liaison with architects in development of preliminary plans on codes, style, recommended materials and practices
6. Review and recommendation of preliminaries
7. Review of working drawings and specifications
8. Review of contract documents
9. Review of bids and recommendation of contract awards
10. Supervision of clerk of the works, jointly with architect
11. Review and recommendation on all proposed change orders and substitutions
12. Decision on acceptance of buildings
B. Existing buildings

1. Review and recommendation on any modifications of an existing building
2. Preparation or review of plans and specifications for remodeling
3. Preparation of contract documents and review of bidding, if remodeling is contracted
4. Supervision of remodeling construction and approval for payment
5. Maintenance of inventory of existing buildings and their conditions
6. Recommendation of exceptional maintenance or repair

C. General

1. Maintenance of records of building performance versus costs of construction, upkeep, etc.
2. Research on design

PLANNING FUNCTION

A. Projection of long and short range building needs for all University departments

1. Recommendations on priorities
2. Cost estimates
3. Major space re-allocations resulting from new construction

B. Master Plan

1. Preservation of master plan
2. Recommendations for revision
3. Coordination of all planning activities, including
   a. Land
   b. Vehicular and pedestrian traffic systems
   c. Utility supply
   d. Drainage
4. Liaison with city planners

C. Landscaping

1. Development and revision of plans
2. Recommendations for implementation
3. Liaison with consultants

ADMINISTRATIVE RELATIONSHIPS

Direct responsibility to President with guidance from a planning committee made up of principal administrative officers and especially qualified faculty.

Architect-planner should serve as chairman of this committee, which should review:

1. Proposed revisions of the master plan, especially regarding land use
2. Projections of building needs and assignment of building priorities
3. Specific proposals for new buildings, including sites, budgets, programs, and preliminary plans
4. Revisions of traffic and parking systems
5. Major landscaping projects

During the year a statement setting forth the functions and duties of the Campus Planning Committee was made by the present chairman of that committee. In it is the proposal that the University Architect be the permanent secretary and the chairmanship be appointive by the President. A copy is attached to this report.

The office started operation in temporary quarters in the Music Building of the Fine Arts Center. Permanent quarters were obtained in the Research Center at 2705 Lomas Blvd., NE, and after the space was remodeled they were occupied March 27. At the present time we have one large central office for the secretary, two draftsmen, and the job inspectors; one private office; and one conference room capable of holding up to 12 persons.

The staff consists of:

Mr. George McKinley, a professional engineer, who is in charge of producing the necessary drawings and maps for the various projects and is job inspector on smaller construction works.

Mr. W. L. Patterson, a job inspector of many years experience, is in charge of inspection of several jobs currently under construction on the campus.

Mrs. Florence Chakerian, secretary.

One or two architectural students working part time as required.
As soon as the office was in operation, work was begun on three projects which had had architects assigned by the Board of Regents: a Graduate Research Building for the Department of Physics and Astronomy; in addition to the Biology Buildings and two dormitories, one for men and one for women.

It had been decided that a written program would be prepared for each building, so work was begun immediately on programs for the Physics and Biology buildings. As soon as the Physics program was completed it was turned over to the architects who proceeded with the preliminary drawings. The Biology program was partially completed before work was stopped pending clarification of the financing of the building. Since the dormitories were essentially duplications of previously constructed buildings, no program was written for them.

A revision to the Campus Master Plan was presented to the Board of Regents which called for two high rise dormitories, one for women, and one for men. The women’s dormitory would be located east of Santa Clara and connected to it with two towers of six stories each over a large common-administration area. The men’s dormitory would be located on the present baseball field and have two seven story towers with satellite dormitories as required. After a thorough study it was determined that the men’s unit would be the first required and a program would be started as soon as possible. The Board of Regents adopted this plan and also a revision of the plan for the loop road in the southwest part of the campus which called for moving it further west through the existing Science Lecture Hall area.

A definitive plan for the selection of architects for future work was presented to the Board of Regents and adopted by them. Copies of the
minutes were sent to all architects who had expressed interest in doing
commissions for the University. A copy of this is attached to this report.

Work was started again on the Concert Hall Addition to the Fine Arts
Center and many conferences were held with the architects, Molten and
Buckley; the consultants, George Izencour and Bult, Bermanik, and Newman;
and the Dean of the College of Fine Arts. It was decided to modify the
acoustical characteristics of the auditorium to incorporate the latest
findings and to provide for a separate contract for the stage rigging to
be supervised by Mr. Izencour.

Plans for the School of Medicine were being developed by the archi-
tects, W. G. Kruger and Associates based on a program prepared by Lester
Caroline and Associates. After several sessions with the Dean, the archi-
tects, and visiting inspection teams from the agencies of the Federal
government supplying grant funds, it was recommended that work be carried
forward at an accelerated pace so as not to lose another year of occupancy
of the Basic Sciences building.

Bids were taken on the moving and remodelling of temporary building 5-17
from the Central Campus to the North Campus to be used as teaching space for
the School of Medicine until the permanent building was completed. The
bids were high, so it was decided to reject them and take bids on a metal
pre-fabricated building instead. Bids were taken and accepted for equipment
for this building and the laboratories in the rear of the Medical Library.

Bids were taken and contracts awarded for the completion of the second
floor of the Basic Building, east side, and the completion of the west wing
of the Journalism Building to house the Post Office, the University Press
and Press storage. Air conditioning of the existing building was included.
The preparation of specifications and working drawings for an addition to Alumni Men's Library were well under way at the first of the year by the firm of Ferguson, Scotts, Mallory, and Forni, but with the indication that funds for construction might be available under the 1963 Educational Facilities Act, work was stopped on the drawings pending the acquisition of these funds.

The University Architect made a visit to the campus of the University of Texas to observe the operation of the office of the Supervising Architect and the Physical Plant Department. This was a very informative experience and many helpful ideas were picked up. While in Austin considerable time was spent examining the new undergraduate library which had just been completed. This proved most helpful in planning the new library for this campus.

The University Administration decided to construct a Golf Course on some land north and west of the stadium which would include a Club House and several auxiliary buildings. It was suggested to the President that a competition sponsored by the American Institute of Architects be held to select the architect. This would be limited to architects practicing in the state who have not previously done work for the University. This idea was favorably considered and initial preparation has started for the competition.

In the College of Education complex an addition to house a computer facility was built under the direction of the Physical Plant Department and later in the year an additional area in the basement of Unit "B" was scheduled to be finished as office and research space.

During the year conferences were held with the Dean of the College of Nursing who in contemplating a new building on the Medical School Campus.

The buildings housing the College of Engineering were investigated in detail in relation to their present and future needs. Discussions were held with the Dean of the College of Business Administration and the Director of the Department of Business Research as to their building needs. The Chairman of the Department of Physical Education proposed additional swimming pool facilities and several talks were held with him and his staff. An inspection trip was made to Regis College, University of Colorado, and Colorado College to look at recently constructed pools. Discussions were held with the Dean of the College of Fine Arts relative to the needs of the Departments of Art and Architecture.

The landscape plan was discussed at several meetings of the Campus Planning Committee and conversations and correspondence conducted with Mr. Garrett Eckbo relative to various phases of it. Studies were completed for the landscaping of the Stanford Street entrance and the land around the College of Education. Various plans and suggestions were studied for the development of Ash Hall from Cornell to Yale and these are continuing at the present time. An extensive landscaping program was begun around the College of Education which included the planting of trees, ground cover plants, and grass. Planting was also done in the area to the north of the Music Building and in the Johnson Gymnasium parking lot.

Because of the increasing pressure for more parking space around the campus this office did a comprehensive study of existing and future parking needs of the University. The results of this study were printed and presented to the Campus Planning Committee for review. Preliminary plans were prepared for the development of the area to the east of the Research Center as a large parking lot. Consideration was given to several plans for

Making use of parking areas on the South Campus for student parking.

One of the functions of this office has been the maintenance of the Space Survey conducted last year at the request of the Bureau of Educational Finance. It is necessary to keep this on a current basis with the cooperation of the Physical Plant Department, the University Secretary, the Dean of Student Affairs, and others.

PROFESSIONAL ACTIVITIES

In January Mr. Hoeker transferred his membership from the Santa Fe Division to the Albuquerque Division of the New Mexico Chapter of The American Institute of Architects. He continued his work of handling the circulation of the Chapter publication, New Mexico Architecture. During the spring semester he gave a lecture to the upper classes of the Department of Architecture on the subject of the selection of contractors and various methods of insuring their execution of work.

Mr. Hoeker was appointed chairman of the American Institute of Architects Committee on Student Affairs and in this capacity assisted with the re-establishment of a Student Chapter of the A.I.A. on the campus. He also met and counselled with the officers of this chapter on various matters during the spring semester.

Governor Campbell appointed Mr. Hoeker to serve as a member of a committee to investigate the possible use of a missile site near Laguna which the state had acquired. This committee, with Dr. Reginald Fitz as chairman, was also charged with the task of making recommendations as to the future of the Fort Stanton Tuberculosis Hospital. Several meetings of this committee were held and a visit made to both sites. Final recommendations were made to the Governor in May and our suggestions are now being implemented by positive action which includes the establishment of a
facility of the care of mentally retarded patients at the Hageman site.

Mr. Hooker was invited to attend a meeting of the Association of University Architects at New York University in early June and was subsequently elected to membership in this organization. The Association of University Architects has a membership limited to 30 and to qualify you must be a registered architect in responsible charge of the building program of a university. At this meeting tours were conducted around the campuses of New York University and their building program discussed. Various persons involved with the planning of the new schools of the State University of New York gave talks on several aspects of this work. On the final day of the meeting a round-table discussion was held wherein the various architects discussed the building programs of their campuses. The dissemination of ideas by the members throughout the year will no doubt prove of great benefit to the University of New Mexico in its planning program.

ADMINISTRATIVE FUNCTIONS

At the present time the University Architect is preparing a new Owner-Architect Agreement form tailored to the specific needs of the University of New Mexico. This form will allow for a system of negotiated fees instead of the usual fixed fee agreements. This work is being done in association with the Controller of the University.

Because of the complexities of administering a multi-million dollar building program the University Architect is in the process of writing a book of instructions for the use of architectural firms doing work for the University of New Mexico which will define very closely the steps to be taken from the beginning of a program to the final acceptance of the building. These instructions will include standard forms of several types
to be used by all architects in order to simplify the conduct of business.
The University Architect prepares a detailed summary of the status of
the building program at the beginning of each month. This is distributed
to interested Administration Offices of the University.

RECOMMENDATIONS

After six months of operation there are several suggestions which
can be made to improve the function of this office.

There should be closer contact with the various administrative offices
of the University, particularly with the Controller. When space is avail-
able near or in the administrative area this office should be moved.

Closer cooperation with the various people concerned with construction
on the campus must be maintained. It is suggested that a meeting be held
regularly every two weeks with the Controller, the Director of the Physical
Plant, his assistant, his staff engineers, the several job inspectors, and
the University Architect in attendance.

Because of the increasing press of work and the impending large amount
of construction on the campus it is necessary to have an assistant to the
University Architect who can function in his absence and assist in the
planning and programming. This should be an architect with considerable
ability and experience.

A clearer definition of the duties of the job inspector should be made
and a positive policy established as to their position on the University
staff. It is suggested that an inspector be hired by the University for
each major job; that he be directly responsible to the University Architect;
and that he be the only person on the job who can issue instructions to the
contractor.
Something should be done to insure retention of able men on the staff such as offering them a permanent position after five years service with the various benefits that accrue to a University employee.

Money should be allocated for the acquisition of the original drawings, or film copies, of all permanent University buildings. These should be housed in a vault for their protection. On all future buildings copies of the drawings will be required as a duty of the architect. Since the University is a permanent, continuing body and architectural firms are transitory these drawings should be kept for future reference through the years.
MEMBERSHIP AND FUNCTIONS OF THE CAMPUS PLANNING COMMITTEE

**Membership and Organization**

*Ex-officio members:* the Chairman of the Regents' Campus Planning and Building Committee (or another Regent designated by him), the Academic Vice President, the Comptroller, the Dean of Students, the Secretary of the University, the University Architect, the Director of the Physical Plant. *Appointive members:* one or two members of the Faculty appointed annually by the President.

**Functions**

The functions of the Campus Planning Committee are to:

1. Serve in an advisory capacity to the University Architect;
2. Interview, as necessary, contract architects nominated by the University Architect and recommend those qualified for a particular assignment to the President (see the policy on selection of architects adopted by the Regents on January 11, 1964);
3. Review and approve all proposals for revision of the master plan, including assignments of land use, and recommend any desirable changes to the President and the Regents;
4. Review and approve:
   a. proposed sites for buildings and all other structures;
   b. site adaptations and elevations of new buildings and additions to existing buildings;
   c. plans for drainage and utility systems;
   d. landscaping plans, including traffic patterns, street and walkway designs;
   e. plans for parking and major changes in the design and assignment of parking lots;
5. Consider such other matters as are specifically assigned by the President. (The Committee is not responsible for the establishment of building priorities or budgets.)
SELECTION OF ARCHITECTS

The following procedure for the selection of Architects to do work for the University of New Mexico was adopted by the Board of Regents at their regular meeting January 11, 1964:

1. Architects who are interested in University assignments should communicate their interest to the University Architect, furnishing him with information about their staff, consulting engineers, work load, previous building projects, and other pertinent information. A file will be maintained for each firm and, as long as they are interested in being considered, this file should be kept up to date. On specific jobs, the University Architect will contact these firms concerning performance on comparable building projects and interview as necessary those firms which seem particularly appropriate for consideration. He will then prepare a list of five to ten firms which seem to be competent.

2. This list will then be transmitted to the University Planning Committee, which will then schedule interviews, when appropriate, with those Architects which in the Committee's opinion appear most promising. The Committee will thereafter narrow the field to two or three firms. In this procedure, they will be joined by one or two representatives of the department or division for which the building is to be designed.

3. The Planning Committee's findings will be transmitted to the President of the University for recommendation to the Regents and final selection.
Report of the University Libraries

July 1, 1963 - June 30, 1964

August, 1964
Some university librarians write very brief reports; others write none. Ours is somewhat lengthy. We believe there is value in recording some of the significant activity of the year, for annual reports of deans and directors provide a history of the University not found elsewhere. This report is written for the use of the Administration, primarily, but it is sent to deans and department chairmen, to many other individuals, to university libraries requesting it, and to all of the graduate library schools. Therefore, it is my intention to report library activities on the U.N.M. campus for the benefit of both campus and off-campus readers. Appendices present some data on all libraries but most of the report deals with the general library (Zimmerman) and the branch Fine Arts Library. The libraries of Law and Medicine are autonomous, and the librarians report to their respective deans rather than to the University Librarian.

The year 1963-64 was filled with many opportunities for library service. With open stacks in all libraries, statistics of use are almost without meaning. We find more satisfaction in helping our students and faculty with their literature problems than in making and keeping statistics for reports. Therefore we keep statistics recording to a minimum. Using the statistics which are kept, we note increases over the year before in many activities. The number of general reference questions increased by 43%, going from 10,874 to 15,577. The number of books borrowed on interlibrary loan increased 37%. The circulation of books increased 17%, from 195,262 to 228,453. The size of the collections in Zimmerman and Fine Arts increased $6^{1/2}$%, a higher rate of growth than experienced in recent years. These samples
of library activities indicate that we had a normal growth pattern during the year. We are painfully aware, though, that the general library is not growing as fast as it should to serve the demands made upon it. We are seriously in need of the building addition to Zimmerman Library, in need of larger and richer collections, in numbers of staff, and in supplies and equipment.

THE COLLECTIONS

For several years efforts have been made to spend the largest possible proportion of funds available for library purposes for books and other materials. During this report year we spent 40.7% for books, periodicals, and binding, a percentage much higher than most universities of our size spend for materials and binding. This attempt to build stronger collections has been made at the expense of an adequate staff, adequate supplies and equipment.

For many years book selection has been done mainly by faculty members, with limited assistance from librarians. During the year 1963-64 some faculty members have indicated a desire to have more book selection done by bibliographers trained in bibliography and in subject fields. In our planned organization by broad subjects we expect much of this collection-building to be done by the Humanities, Social Science, and Sciences librarians. It would be well to add these staff members as early as possible to give the faculty this assistance in book selection. The Fine Arts Librarian is now performing this function.

Bookbuying during the year reflected the addition of new courses and new faculty members. For example, the Department of Modern and Classical Languages strengthened the work in French. Their buying was stronger in French literature and this was supplemented by buying on History Department
book funds from selections made by the new professor of French history.

Special funds allotted for Engineering purchases over a five year period provided for heavier buying of proceedings, journals, etc. in that subject.

The need for more serial publications continues to increase. New subscriptions placed during the year totaled 552, bringing the number of titles in the serial checklist to 12,953. This number places a heavy burden upon the binding fund of $21,000 and causes us to use a cheaper binding than we might desire to use on certain selected titles.

The Special Purchase Fund of $15,000 brought in some fine runs of serials, most of which are listed in Appendix F. Worthy of special mention here are: Bibliografia Espanola, 34 volumes, Journal of Philosophy, 21 volumes, Management Review, 11 volumes, Le Presse Universel, 1836-45 on microfilm, Philosophical Transactions of the Royal Society of London, 47 volumes, Sewanee Review, 31 volumes, and Transitions, 20 volumes.

With the financial help provided by the Greater UNM Fund we were able to complete our collection of the New York Times on microfilm.

Annual additions were made to the Short-Title Catalogue collection of microfilm and to the Four Centuries of Spanish Drama on microcards. Groups 15 through 17 were added to the microprint edition of the U. S. serial set.

New sets of the Encyclopedia Britannica were obtained for both the Zimmerman and the Fine Arts Library. The first volumes of the projected 21 volumes set of the Encyclopedia of Photography were received. For the reference collection we acquired the Larousse Grand Dictionnaire Universal Francais, 1865-90, 17 volumes. We also obtained Hector Talvart's Bibliographie des Auteurs Modernes, 1928- , 14 volumes. The following three atlases were added:


The nucleus of a good collection of nineteenth century American literature was started. Some 230 volumes were purchased from a private collector, and an additional 32 early nineteenth century books from a dealer.

Acquisitions by gift continue to be very important in the building of collections. We are ever grateful to Dr. France Scholes who has poured a stream of material into the library for many years. This year he has given 85 items, mostly photoprints of archival materials and some microfilm. Dr. Frank Reeve gave 30 reels of microfilm.

Mr. Winfield Townley Scott gave 122 volumes of modern poetry from his library and purchased several Edwin A. Robinson books to add to the Esther Willard Bates collection presented last year. Mrs. Mildred Cook gave a collection of art books. Mrs. Julian S. Duncan and Mrs. Eric H. Wang presented the libraries of their deceased husbands. Mrs. S. P. Nanninga gave a large collection of books and journals, and Mrs. William Parish has begun the transfer of her late husband's books, journals and papers to the Zimmerman Library. Dr. Harold Walker and Mr. Charles N. Staubach gave many valuable technical journals.

The Belgian Ministry of National Education and Culture sent several literary works by Belgian writers. The German consul in Los Angeles gave a fine collection of recent German books, chiefly in language and literature. Year after year we are indebted to the Albuquerque National Bank, the First National Bank of Santa Fe, and the UNM Press for continued gifts of valuable material.

The Fine Arts Library was enriched by the gift of the Manuel Archuletta, collection of Indian recordings made by his daughter, Mrs. Elizabeth McPherson. Also received was the gift of 240 albums of 78 RPM records from Mr. Henry Shultz.
Through the sale and exchange of unwanted duplicate material we received 1,305 needed items. This activity is growing fairly rapidly and seems worthy of continuance. We also received some material by exchange of our University publications. Some exchanges were discontinued by other university libraries because we have not sent enough to them. It is gratifying to note that of the 552 new serial titles added during the year, 134 were acquired by gift and exchange.

Including the Medical and Law libraries, along with Zimmerman and Fine Arts, the size of the collections (cataloged volumes) increased 10%. The collections in the general and Fine Arts libraries increased 6.5%.

ORGANIZATION OF THE COLLECTIONS

At the beginning of the year work was started transferring the music books and scores to the Fine Arts Library. Decisions were made and records changed in the Zimmerman Library, and new catalog cards prepared for Fine Arts. While the Fine Arts Librarian did a major share of this work, yet it was necessary for members of the central library catalog staff to devote much of their time to this. By the end of the year, 15,897 volumes had been transferred, including all music books and scores, all Fine Arts reference books, all new books purchased during the year and some art and architecture books.

Through the first six months of 1964 we were engaged in an examination of the question whether we should change the classification to the Library of Congress system. This investigation was initiated by the Library Committee of the faculty. By the middle of June the decision was made to change to Library of Congress for all new material and to reclassify existing collections when money can be provided for a special reclassification staff. The use of the Dewey classification was stopped June 15th, and on July 1st classification began by the L.C. system. Since staff size has not been kept in proportion to
the size of book funds and the resulting inflow of material, we are hopeful that this change will increase the productivity of the Catalog Department through the use of L.C. cataloging. We plan to use more clerical copying and photographic copying from L.C. proof slips. The addition of one professional and one clerical position will also help to keep the materials organized.

The processing of serials is a time-consuming activity. It is in this part of library operation that we expect some promising results from help given by the new Data Processing Center. As soon as possible we should place on IBM cards and tape our 12,953 serial titles, coded to provide the necessary information when needed. The computers can also help in the ordering of serials. In the present situation we have been unable to prevent the overcrowding of records on the Kardex files housing the central serials records. Filing errors have crept in over the years, necessitating a complete checking of the files. This has been started and will continue for some time.

Binding of materials progressed normally but will have to be stepped up much more if we are to catch up with new needs and old arrearages. The funds for binding were almost gone in March. The budget for 1964-65 is increased $2,500 but higher costs for commercial binding will offset this budget increase. The increased usage of material by a larger student body causes us to consider this matter of binding to be rather serious.

In Special Collections, the records of New Mexico counties were arranged and inventoried. Progress was made on an index of the collection of photocopies of historical source materials.

The processing of book and journal collections is done in the general library. But Miss Clara Grotta, on the Fine Arts Library staff, continued the work of cataloging the collection of some 51,000 slides. The staff of that library also started the special cataloging of the record collection of about 930 albums.
Photoduplication continues to grow rapidly. The introduction of the Xerox 914 copier proved to be very popular with faculty and students and a second machine has been ordered. During this first year the Xerox produced six times the number of prints made on the former Copease machine. Since the operator's time was largely taken up with Xerox copying less microfilming was done. But the Department did complete several jobs including the filming of the *Albuquerque Journal*, 1907-1934. Limited runs of *El Universal*, *La Prensa*, and *La Nación* were filmed. At the close of the year plans were being made for microfilming the papers of a prominent local artist for the Detroit Institute of Arts.

Upon the recommendation of the Library Committee and approval of the necessary funds by the President, a survey of the technical services was made during early July, 1964. We were fortunate to obtain the services of Dr. Maurice Tauber, Professor, School of Library Service, Columbia University, to conduct the survey. He also served as consultant on planning for the library addition and for the change to the Library of Congress classification. His written report is expected in the near future.

**SERVICES TO READERS**

The number of general questions answered by reference librarians increased from 10,874 to 15,577, about 43%. This growth is to be expected with larger enrollment each year. Reference librarians, while devoted to the work of helping readers, also wish to train them to help themselves. They conducted orientation sessions with 67 classes.

Borrowing on interlibrary loan occupies much staff attention, increasing 37% over the previous year. So long as library development lags behind the University's research and curricular expansion, we can expect a dependence upon borrowing from other libraries. Seventeen departments borrowed 1,472 volumes. Many libraries are refusing to loan journals, offering to sell
Xerox copies of articles instead. We may follow this practice in the near future in order to retain our journals for campus use.

With the reference area becoming congested, and with interlibrary loan work increasing, the decision has been made to organize an interlibrary loan office in Room 132. This office will be staffed by one of the reference librarians during certain posted hours for help with interlibrary loans.

During the times when there are fewer readers asking for help, reference librarians do such things as the compilation of bibliographies and indexes. A need has developed for an index to reviews of history books. This index has been started and now contains about 1,000 cards. Cards continue to be added to the index of New Mexico Magazine, New Mexico School Review, and to the Explicator file which now has 14,125 card entries. Another file containing 1,300 cards lists language-subject combinations to help graduate students locate foreign language books for practice reading in their subject fields.

Statistics of the circulation of books for home use indicate an increase of 11% over last year. Use of books and other materials within the libraries is not measured statistically. There was heavy usage of the 109 stack carrels in the Zimmerman Library, each being assigned to two or three persons.

The Fine Arts Library, opened for use in September, recorded 32,680 persons entering. There were 12,893 circulations of books and 44,712 slides. These latter were circulated for faculty use only as we lack facilities at present for student use of slides. At this date the listening facilities for tapes and discs have just been completed. A heavy usage of this excellent equipment is anticipated.

In the central library the staff of the Circulation Department has
had a difficult year trying to manage an efficient service for a larger student population. Without the help of a Circulation Librarian during the fall semester, the five non-professional assistants and student assistants did exceedingly well. The problems were overwhelming. Overcrowding of the stacks made it nearly impossible to keep materials in call number order. Beginning February 1, 1964, Mr. Larry Welch, Circulation Librarian, devoted much attention to these problems and accomplished a great deal toward restoring order. In June he directed the removal of 21,405 volumes for storage in Hokona Hall basement. We now have 61,122 volumes in storage. This removal of "little-used" material has provided some free space on each shelf to allow for shelving returned books and new material. But experience points up the difficulty of determining what is "little-used."

The storage of books has brought several complaints from faculty members. But it seems that this is the only thing to do while awaiting the building of an addition to give more space for collections. When the addition is constructed, these materials will be returned from storage. In the meantime, we will pick up books each morning that are requested the previous day. A Cushman scooter with small truck bed was acquired and a student assistant assigned for this messenger service.

Following the removal of many volumes for storage, books on each stack deck were shifted, new range labels made, and new stack directories posted. Better order now exists. The decision to change classification to the Library of Congress system caused further shifting of books on the second deck. L.C. books (new additions) are shelved on the outside wall shelving on this floor. We anticipate a sizable task informing faculty and students about the arrangement of books with two classification systems. But the frequent library users will quickly become acquainted and will like the change.

It seems that it is becoming increasingly difficult to get books returned. One wonders if we will be forced to follow the example of the
New Jersey public library and use legal means, even a night in jail, for failure to return books. We pull the cards for overdue books from the charge file, Xerox them, and mail in window envelopes. This is followed a few days later by a second notice, and finally by a bill for the cost of the books. This is expensive in staff time and materials used, and the number of overdues is rising and is considerable. We have considered raising fine rates. Also, the long periods that books are kept by some faculty members has caused frustration to other faculty and graduate students. The Library Committee discussed this problem during the spring and will continue working on the problem this fall. Problems such as this are the natural result of our too-small collection in relation to the population of the campus community and the need for library services. The libraries must grow up to big university size.

A bright spot in our reader services has been the Reserved Book Room. It has functioned efficiently during the year checking books on 3-day and 2-hour loans. During the spring semester 3,179 volumes were placed on reserve and in the 1964 summer session, 1,143 volumes. The Circulation Librarian and faculty members have worked together to determine better which volumes should be placed on reserve.

Mr. Michael Mathes, Special Collections Librarian, was responsible for exhibits in the two wall cases and the two floor cases. He prepared the following exhibits:

- New Mexico Cartography, 1545-1795
- Works relating to Christobal Columbus
- Mexican Codices
- Faculty Publications for 1963
- Pottery by Maria of San Ildefonso
- Spanish Documents of New Mexico
- National Library Week Display in the New Mexico Union
- Works by D. H. Lawrence
- Seventy Five Years of the University of New Mexico Library
- Works of Camilo Jose Cela
- Various Printed Works for the Study of Students in a Workshop on Book Design

10
The Special Collections Department was used by 4,382 persons during the year. Of this number, there were 34 visiting faculty members and 151 other visitors from off campus. A variety of materials were used, such as business history records, private papers, company records, photo collections, recordings, territorial papers, cuneiform tablets, and the historical source materials from Spanish, Mexican, and New Mexican archives.

INSTRUCTION IN LIBRARY SCIENCE

Two courses were scheduled for the 1964 summer session, Reference and Bibliography and School Library Administration. Mrs. Helen Saunders was the instructor. Enrollment was 32 in the Reference course and 29 in the Administration course. This is now the fifth summer we have offered two 3-unit courses, scheduling the courses on a rotation plan, and enrollment, enthusiasm, and quality of instruction has been consistently high. We feel strongly that at least one course should be scheduled for late afternoon or evening during each of the regular semesters.

THE STAFF

The staff of the Zimmerman and Fine Arts libraries was composed of sixteen librarians, three sub-professional and seventeen non-professional assistants. In addition there were about 70 part-time student assistants working during the period September-June, and about 40 during the summer session.

We were pleased to have a lower turnover rate in the full-time staff, losing one librarian and three clerks during the year. Mr. Arley Jonish, Circulation Librarian, left at the end of the summer, 1963, to accept a position as Reference Librarian at Oregon College of Education at Monmouth. He was succeeded by Mr. Larry Welch who was on the Circulation Department staff at the University of Illinois.
The turnover rate of student assistants is fairly high. Each September we have a large number of eager students who want to work. We select those most promising and those who have the qualifications needed. But pressures of study later on cause some to give up working. Others find more lucrative jobs. But we are happy to have a core staff of assistants who have worked four years or more, and we owe much to their faithfulness and efficient performance of duties.

One librarian, Mrs. Lillian Pankratz, retired on June 30th, after 14 years of service as Cataloger. Before coming to her position on our staff she was Reference Librarian at the University of Oregon, and before that was Librarian at New Mexico State University. She plans to continue living in Albuquerque.

Several librarians attended the meetings of the New Mexico Library Association in Santa Fe during April. Miss Gillett reported as state membership chairman for the American Library Association. Miss Soper served as parliamentarian. Miss McIntyre was a recorder for a discussion group, and Mr. DeVolder was a member of a panel. It was my year as president.

During the year, while on a personal visit to the Middle West, Mr. Arthur DeVolder was able to visit the new university library building at Notre Dame. Mr. Don Roberts attended the meeting of the Music Library Association at Yale University during the fall. Mr. Michael Mathes attended the meeting of the Western History Association in Salt Lake City. He had three book reviews published in the Quarterly of the California Historical Society. He was chairman of the regional conference of Phi Alpha Theta, and president of its Sigma Chapter.

As part of our investigation of the possible change to the Library of Congress classification, I visited the University of Colorado in March. Since the librarians there have been reclassifying since 1958, the Director,
Associate Director, Head Cataloger, and others were very helpful by sharing their experiences.

In June, 1964, I attended the American Library Association's Equipment Institute in St. Louis and the A.L.A. conference there. As part of this trip, I visited five university libraries in Kansas and Missouri, looking at and discussing with staff about reclassification to L.C. and about applications of data processing to university library functions.

Members of our library staff have been most loyal and devoted to the giving of their best in service to the University, and I wish to record here my sincere thanks to them.

THE PHYSICAL QUARTERS

There is little to report about the proposed addition to the Zimmerman Library building. Several meetings of the building committee were held under the chairmanship of Dr. Sherman Smith. Plans and specifications were completed by the architects. Since funds from the Higher Education Facilities Act are expected for this project, it is delayed because the U.S. Senate has not passed the necessary appropriations act. The need for the addition is acute, as already pointed out, and will grow more acute during the next two years while we await completion of the addition.

The new quarters for the Fine Arts Library are delightful and much appreciated by readers in that area. The available shelves are full after less than one year's operation, and we should provide more this fall.

The Library of the Medical Sciences began occupancy of its building, a former bottling plant, in August, 1963, and for a few months the staff worked amid continued construction. By Christmas the library was operating normally in fairly adequate quarters. The first medical students will use this library in the fall of this year.
For the libraries of the University these are somewhat difficult times. The preceding pages of this report have pointed to some of these difficulties. But progress is being made and much good library service is being provided. We have much good support and cheerful cooperation from members of the faculty. I wish to acknowledge and thank Prof. Marion Cottrell, Chairman of the Library Committee for the time and effort he has put in to make a better UNM library system. Thanks go also to Mr. Robert Lalicker, Director of the Development Office, and especially to the President and Vice President who hear our requests most sympathetically and support us in our work.

Respectfully submitted,

David Otis Kelley

August, 1964

University Librarian
Appendix A

SIZE AND GROWTH OF THE COLLECTIONS

<table>
<thead>
<tr>
<th></th>
<th>Zimmerman and Fine Arts Libraries</th>
<th>Medical Library</th>
<th>Law Library</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Cataloged Volumes</td>
<td>304,105</td>
<td>---</td>
<td>58,210</td>
<td>362,315</td>
</tr>
<tr>
<td>June 30, 1963</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Volumes Added (net), 1963-64</td>
<td>19,880</td>
<td>15,989</td>
<td>1,515</td>
<td>37,384</td>
</tr>
<tr>
<td>Number of Cataloged Volumes, June 30, 1964</td>
<td>323,985</td>
<td>15,989</td>
<td>59,725</td>
<td>399,699</td>
</tr>
</tbody>
</table>

Other Processed Material in the Libraries:

<table>
<thead>
<tr>
<th></th>
<th>June 30, 1963</th>
<th>Added 1963-64</th>
<th>Total June 30, 1964</th>
</tr>
</thead>
<tbody>
<tr>
<td>Government Publications</td>
<td>135,165</td>
<td>11,042</td>
<td>146,207</td>
</tr>
<tr>
<td>Maps (approximation)</td>
<td>55,150</td>
<td>268</td>
<td>55,718</td>
</tr>
<tr>
<td>Microfilm (reels of varying lengths)</td>
<td>7,050</td>
<td>868</td>
<td>7,918</td>
</tr>
<tr>
<td>Microcards</td>
<td>92,782</td>
<td>17,071</td>
<td>109,853</td>
</tr>
<tr>
<td>Sound Recordings</td>
<td>765</td>
<td>10,930#</td>
<td>11,695</td>
</tr>
<tr>
<td>Tape Recordings</td>
<td>429</td>
<td>19</td>
<td>448</td>
</tr>
<tr>
<td>Slides</td>
<td>1,328</td>
<td>50,000##</td>
<td>51,328</td>
</tr>
</tbody>
</table>

# Transferred from Music Dept. to Fine Arts Library.
## Estimate of number transferred from the Art Dept. to Fine Arts Library.

Appendix B

PROCESSING OF MATERIALS
Zimmerman Library

<table>
<thead>
<tr>
<th></th>
<th>1963-64</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Titles Cataloged</td>
<td>9,354</td>
</tr>
<tr>
<td>Volumes Added: By Purchase</td>
<td>9,826</td>
</tr>
<tr>
<td>By Gift and Exchange</td>
<td>1,464</td>
</tr>
<tr>
<td>By Binding of Periodicals</td>
<td>4,318</td>
</tr>
<tr>
<td>Total</td>
<td>15,608</td>
</tr>
<tr>
<td>Number of Titles Recataloged</td>
<td>116</td>
</tr>
<tr>
<td>Number of New Serial Titles Added</td>
<td>552</td>
</tr>
<tr>
<td>Total Number of Serial Titles in Checklist</td>
<td>12,953</td>
</tr>
</tbody>
</table>
Binding: (in volumes)

Commercial Bindery
Books - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 981
Periodicals - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 3,702
Theses - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 231
Total 4,914

Home Bindery
"Z" Binding - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 1,253
Tying of Incomplete Volumes - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 1,242
Total 2,495

Photographic Services

Negative Microfilm Frames - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 49,132
Enlargement Prints - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 4,569
Contact Prints (Copexase) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 1,039
Xerox Prints - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 44,157

Appendix C
USE OF LIBRARY RESOURCES
Zimmerman and Fine Arts

One Month Loans - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 167,796
Loans of Serials and Government Publications - - - - - - - - - - - - - - - - - - - - - - - 15,671
Reserved Book Loans - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 44,986
Loans of Records and Tapes - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 1,973
Loans of Slides - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 29,959

Interlibrary Loans
Loaned - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 641
Borrowed - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 1,472
Total Loan Transactions 262,498

Appendix D
EXPENDITURES

Books and Other Materials:
Departmental Fund - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - $100,001.47
General Book Fund - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 22,482.39
Special Purchases Fund - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 14,804.13
Law Library Book Funds - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 20,944.01
Medical Library Book Funds - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 30,413.30
Special Engineering Fund - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 4,413.00
\+Ibero-American Studies Fund - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 6,378.48
\+Mathematics and Science Institutes - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 164.11
+John Knox Musgrave and John Mawhinney Memorial − − − − − − − − − 201.49
+Edith Blessing Memorial Fund − − − − − − − − − − − − − 52.33
+Ruth Carzoo Memorial Fund − − − − − − − − − − − − − − − − − 30.00
+Edwin Swope Memorial Fund − − − − − − − − − − − − − − − 80.00
+Rockefeller Grant − − − − − − − − − − − − − − − − − − − − − − 111.48

Sub-Total $199,176.19

<table>
<thead>
<tr>
<th>Supplies and Expense</th>
<th>Amount</th>
<th>Percent of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment</td>
<td>28,836.36</td>
<td></td>
</tr>
<tr>
<td>Binding</td>
<td>3,876.38</td>
<td></td>
</tr>
<tr>
<td>Salaries</td>
<td>21,849.23</td>
<td></td>
</tr>
<tr>
<td>Student Assistance</td>
<td>37,891.06</td>
<td></td>
</tr>
<tr>
<td>Medical Library, Other than Books</td>
<td>34,559.11</td>
<td></td>
</tr>
</tbody>
</table>

Total Expenditures for Libraries $514,310.25

+Non-institutional funds.  
#This entry includes items not usually considered library expense, such as: travel, cost of publishing dissertations on microfilm, state retirement, and social security payments.

| Percentage Distribution of Expenditures, Zimmerman and Fine Arts |
|------------------------------------------------|-------------------|
| Amount            | Percent of Total |
| Books, Periodicals, and Binding | $169,708.17 | 43.6 |
| Salaries and Wages | 204,735.07 | 52.6 |
| Supplies, Expense, and Equipment | 14,910.41 | 3.8 |

Ratio of Library Expenditures to Total Expenditures of the University for Educational and General Purposes - 6.6%

Appendix E

DONORS

Individual Donors:

Miss Page Ackerman
Dean Clinton Adams
Mr. Luis Aldaz
Dr. Hubert G. Alexander
Dr. Ralph I. Alford
Mr. Francisco Amighetti
Mrs. Nina M. Ancona
Senator Clinton P. Anderson
Mr. Merle Armitage
Dr. George Arms
Mr. Charles J. Armstrong
Mr. Sidney R. Ash

Dr. Archie Bahn
Dr. Stuart Baillie
Dr. George L. Baker
Mr. John W. Barriger
Mr. Ed Bartholomew
Dr. John Batcheller
Miss Esther Willard Bates
Mr. John A. Baum
Mr. Rexford S. Beckham
Miss Ann Berg
Mr. Benjamin Bilbao
Mrs. Karl Bostic
Mr. Pablo A. Bueno
Mr. C. M. Braum
Mrs. E. O. Bühler
Dr. Bainbridge Bunting
Mr. Thomas H. Burgoyne Estate
Mr. R. W. Burleigh
Dr. Lloyd Burley
Miss V. M. Burley
Miss Madeline Canova
Miss Isabel Carter
Dr. Edward F. Castetter
Dr. Raymond Castle
Dean Elmon L. Cataline
Mr. C. C. Chang
Dean Robert E. Clark
Miss Dorothy Cline
Dean Richard H. Clough
Mr. Paul P. Cloward
Prof. Van Deren Coke
Mr. Ralph F. Colin
Prof. Ben L. Collins
Miss Mary Jane Cook
Mrs. Mildred E. Cook
Mr. Earnest Sevier Cox
Dean Virginia Crenshaw
Mrs. William D. Crim
Dean Vern Countryman
Mrs. B. Crofton-Atkins
Mr. G. A. Crosby
Dr. Charles A. Curtis
Miss Charlemaud Curtis
Mr. Gerald G. Curtis
Senor Ruben Del Pilar
Mrs. Elizabeth DeForest
Mr. Arthur L. DeVolder
Senor Salvador Diaz-Verson
Mr. Ronald Burt DeWaal
Mr. Russell W. Dietzel
Mr. Robert Divett
Mr. John Dolzadelli
Miss Elizabeth Doolittle
Prof. Donald Dubois
Mr. Victor Duke
Mrs. Julian Duncan
Mr. John Durrie
Miss Elizabeth Elder
Dr. Florence Hawley Ellis
Mrs. W. B. Ferguson
Mr. Robert Hill Fernow
Mr. Floyd S. Fierman
Mr. Myron Fink
Mr. Stewart W. Fleisher
Mr. J. M. Frad
Prof. Kurt Frederick
Mr. S. H. Froehlich
Mr. Edward M. Gallagher
Mr. Charles Gallenkamp
Miss Janice Garcia
Dr. Frank Gentry
Dr. F. A. Gerard
Miss Theresa Gillett
Mr. C. M. Goethe
Mr. Mitchell Goldberg
Mr. Israel Goldstein
Mr. C. J. Grace
Mr. Norman Greenberg
Mr. George Griego, Jr.
Miss Jean Grigsby
Mme. George Grillon
Miss Helen Hefling
Mrs. Hazel L. Hodges
Dr. Edwin Honig
Mr. Frank Houghton
Mr. Don Holly
Mr. Frank Horan
Dr. E. C. Hoyt
Mr. Frank Houghton
Dr. Frank William Iklé
Dr. Frederick Irion
Dr. Alex G. Jácomo
Mr. Issoh Ysaugi
Mr. Merrill C. Jones
Mr. Ted Jones
Rabbi Max Kaufman
Mrs. Edna Kelloff
Miss Eunice Kettering
Prof. Tseng Ke-Tuan
Mrs. David W. King
Mr. Thomas O. Kirkpatick
Hon. N. T. Kjellstrom
Mr. C. F. Kleinrekt
Mrs. Concha Kleven
Mrs. Merrill R. Klingler
Mr. Jack Korber
Prof. Aaron Kramer
Mrs. Carlton F. Lalicker
Mr. Arthur Larson
Miss Ellen Lawrence
Dr. Albert R. Lopes
Mr. Arthur Loy
Mr. Charles H. Maak
Mr. James R. McCarthy
Miss Helen McIntyre
Mrs. Elizabeth McPherson
Prof. Donald McRae
Mr. H. Wilson Maglidt
Mr. John Mahony
Mr. Hugo Manning
Mr. Jose E. Martinez
Senor Carlos Massad'
Mr. Michael Mathes
Mr. John A. W. Noling
Miss Viviana Ollua
Miss Wanda Orynski
Mrs. Lillian Pankratz
Mr. Russell Pankratz
Dr. Solomon Papper
Dr. William Parish
Mr. James W. Park
Mrs. Kenneth Parks
Dr. L. Parsons
Mrs. Matilda B. Paull
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Dr. Paul V. Petty
Mrs. Leonard G. Phillips
Mrs. H. Lynn Pierson
Suzanne Poole
President Tom L. Poejoy
Miss Genevieve Porterfield
Mrs. Norman H. Preble
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Mr. Kip Ran
Dr. Frank Reeve

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Mr. William Rice
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Mrs. Waldo H. Rogers
Miss Marie Rollins
Mr. Ralph Rosenbaum
Mr. Michael Rowland
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Mr. Jack Schaefer
Dr. France V. Scholes
Mr. Karl H. Schwerin
Mr. Winfield T. Scott
Mr. John Semedales
Miss Wilma Loy Shelton
Rabbi Abraham Shinedling
Mr. Henry Shultz
Miss Katherine Simons
Mr. Leroy Snyder
Dr. H. J. Sobiloff
Miss Mary Ellen Soper
Mr. Lorenzo Sossi
Mr. Charles H. Staubach
Mr. Glen Stephens
Dr. C. A. Stern
Mr. Dennis J. Stevens
Prof. Jack Stevenson
Mrs. James Stone
Mr. Wayne Stout
Mr. John Winchester Stuart
Mr. Lewis R. Sutin
Miss M. Anna Swayne
Prof. R. D. Swihart
Mrs. Harry Thompson
Mr. Sam Thompson
Mr. James Thornton
Miss Goldianne Thompson
Mr. Mark Thompson
Mrs. Benjamin E. Thurston
Dr. Henry J. Tobias
Vice President Hoyt Trowbridge
Mr. Yi-Fu Tuan
Mr. William P. Tucker
Prof. A. E. Utton
Mr. Floyd Vasquez
Mrs. Jenny Wells Vincent
Mr. Paul P. Vouras
Mrs. A. W. Walker
Mrs. B. E. Walker
Mr. Harold L. Walker
Mrs. Eric H. Wang
Mr. Harry M. Ward
Mr. Carl V. Warren
Mr. Eno Theodoron Wanke
Mr. Russell E. Weber
Prof. Henry Weihofen
Mr. David Weingarten
Mr. Peter L. Welch
Dr. A. A. Welick
Mr. William Bittle Wells
Mr. Victor Westfall
Mr. and Mrs. Renville Wheat
Mr. H. C. Whitener

Mr. James Whitlow
Mr. John Hay Whitney
Mr. Hans J. Wolflisberg
Mrs. Mary Wolston-Hallet
Mrs. W. S. Woytinsky
Mr. James S. Wroth
Dr. Dudley Wynn
Mr. Edwin W. Young
Mr. H. B. Young
Prof. Cesar Zazigi
Mr. Earl Zimmerman

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Alamogordo Daily News
Albuquerque National Bank
Albuquerque. City Planning Department
Albuquerque Public Library
American College of Surgeons
Anti-Defamation League of B'nai B'rith
Arthritis and Rheumatism Foundation
Belgium Ministere de L'Education Nationale
Biblioteca Nacional "Jose Marti"
Biblioteca Publica Gral. San Martin Mendoza
Bollingen Foundation
Center for the Study of Democratic Institutions
College Students for Rockefeller (UNM chapter)
Dairy Council of the Rio Grande Valley
The German Consulate
Heart Association of Bernalillo County
Historical Society of New Mexico
Horn and Wallace
Miller and Smith Mfg. Co.
Museum of New Mexico
Navajo Tribal Museum
New Mexico Association for Mental Health, Inc.
New Mexico Folklore Society
New Mexico Municipal League
New Mexico Tuberculosis Association
Portland Cement Association
Public Service Company of New Mexico
Sandia Corporation Library
Santa Fe Museum of Navajo Ceremonial Art
School of American Research
Standard Mortgage Company
U. S. Air Force Weapons Laboratory, Kirtland AFB
U. S. Corps of Engineers
Uruguay. Montevideo. Instituto de Cultura Uruguayo
Wesley Foundation, UNM
Appendix F

NOTABLE ACQUISITIONS


Camoes, Luis de. Lusiadas de Lvis de Camoens ... comentadas por Manvel de Parias i Sousa. Madrid, Ivan Sanchez, 1639.


Coleccion de libros raros y curiosos que traten de America. Madrid, 1891- Serie I, v. 2-13, 16-22

Congreso Internacional de Historia de America. 3d, Buenos Aires, 1960.


(Documents inedits sur l’histoire de France.)


Fröhlich-Bum, Lili. Parmigianino und der Manierismus. Wien, A. Schroll & Co., g. m. b. h., 1921.


Shakespeare, William. The plays and poems of William Shakespeare, with the corrections and illustrations of various commentators; comprehending a life of the poet, and an enlarged history of the stage, by the late Edmond Malone, with a new glossarial index. London, Printed for F. and J. Rivington, 1821. 21v.


Notable additions to our serial holdings are:

American journal of international law, v. 1-4, 6-8.
Bibliografia espanola, v. 1-33, 1901-33.
Biblioteca de historia nacional, v. 1-97.
Bulgarski Arkeologicheski Institut, Sofia.
Denkmaler der Tonkunst in Osterreich, 83v.
Krasnyi arkhiv, no. 1-103.
Management review, v. 1, 3-12.
Matematicheski sbornik, v. 26-35.
Mind, v. 30-37, 53-54, 60.
Le presse universel, microfilm, 1836-43.
Revue des deux mondes, scattered numbers in many series.
Sociometry, v. 1-6.
Transitions, no. 1-12, 14-15, 19-20, 24, 26-27
Writings on American History, 1906-17.
Zeitschrift für Astrophysik, v. 7-23.
Zoological Record, v. 31-36.

Appendix G

Staff of the Libraries, Summer, 1964

Zimmerman Library -

Administration.
David Otis Kelley - University Librarian
Arthur L. DeVolder - Technical Services Librarian
Marie Jones - Library Secretary

Reference Department.
Genevieve Porterfield - Reference Librarian
Charles Warren - Asst. Reference Librarian
Dorothy Wonsmos - Asst. Reference Librarian

Circulation Department.
T. Larry Welch - Circulation Librarian
Patricia Godin - Asst., Circulation Dept.
Geraldine Jacobson - Asst., Circulation Dept.
Dorothy Legere - Asst., Circulation Dept.
Clark Melling - Asst., Circulation Dept.
Alice Seeds - Asst., Circulation Dept.

Technical Services Division.
Virginia M. Misanko - Asst., Technical Services Div.
Janice Doxtator - Asst., Technical Services Div.

Acquisition Department.
Helen McIntyre - Acquisition Librarian
Nanette Sargent - Asst. Acquisition Librarian
(Vacant) - Asst. Acquisition Librarian
Dorothy Willis - Asst., Acquisition Dept.
Daphne Steer - Asst., Acquisition Dept.
Michael Anne Alvarez - Asst., Acquisition Dept.

Catalog Department.
Theresa Gillett - Chief Cataloger
Claire Bensing - Cataloger
Donald Foster - Cataloger
Helene Ott - Cataloger
(Vacant) - Cataloger

Moreyn Cole - Assistant, Catalog Dept.
Kell Davis - Assistant, Catalog Dept.
Diana Kelley - Assistant, Catalog Dept.
Sonja Spencer - Assistant, Catalog Dept.

Serials Department.
Mary Ellen Soper - Serials Librarian
Helen Lee - Assistant, Serials Dept.
Linda Ann Beattie - Assistant, Serials Dept.
Lillie Pearson - Assistant, Serials Dept.
Phyllis Zuschneid - Assistant, Serials Dept.

Government Publications Department.
Robert B. Harness - Documents Librarian
Photoduplication Service.
William Owings - - - - - - - - - - - Asst., Photoduplication Service
George Reinhardt - - - - - - - - - - - Asst., Photoduplication Service

Special Collections Department.
W. Michael Mathes - - - - - - - - - Special Collections Librarian

Fine Arts Library -
Donald L. Roberts - - - - - - - - - Fine Arts Librarian
Charlemain Curtis - - - - - - - - - Asst., Fine Arts Library
Clara Grotta - - - - - - - - - Curator, Visual Aids

Law Library -
Myron Fink - - - - - - - - - Law Librarian
Jane Goldman - - - - - - - - - Asst. Law Librarian
(Vacant) - - - - - - - - - Secretary

Library of the Medical Sciences -
Robert Divett - - - - - - - - - Librarian
Harold Bellingham - - - - - - - - - Associate Librarian
Louise Small - - - - - - - - - Assistant Librarian
Eva Baerwald - - - - - - - - - Assistant Librarian
Nina Duncan - - - - - - - - - Assistant Librarian
Grace E. Hollied - - - - - - - - - Library Assistant
(Vacant) - - - - - - - - - Library Assistant
Ladye Margaret Payne- - - - - - - - - Library Technician
Tey Esther Rebolledo- - - - - - - - - Library Technician
William Wettinkind - - - - - - - - - Library Technician

Appendix H

FACULTY LIBRARY COMMITTEE, 1963-64

Prof. David Hamilton, Chairman, 1st Semester
Prof. Marion Cottrell, Chairman, 2nd Semester
Prof. Franklin Dickey
Prof. Melbourne G. Evans, 1st Semester
Prof. J. Paul Fitzsimmons
Prof. Fitzgerald A. Gerard
Prof. Frederick Irion
Prof. Jorge Mayer-Kalkschmidt
Mr. James W. Park, 2nd Semester
Prof. Don Schlegel
Prof. Louis J. Thompson, 2nd Semester
Prof. John T. Zepper
Prof. Bert Zippel
Mr. Robert Divett, ex officio
Mr. Myron Fink, ex officio
Prof. David Otis Kelley, ex officio
Herewith are exact reproductions of the major exhibits and schedules which are included in the annual audit report for the fiscal year ended June 30, 1964. It is believed that these fairly present the financial condition of The University of New Mexico on June 30, 1964, and the results of its operations during the fiscal year then ended.

There is a complete audit report, by Denham, Youngberg & Co. Certified Public Accountants, on file in the Business Office, which is available for inspection by any interested member of the University faculty or administration.

Tom L. Popejoy, President
John Perovich, Comptroller
Joe D. Harris, Asst. Comptroller
Eleanor Manson, Administrative Assistant
Frank D. Manfredi, Purchasing Agent
Robert V. Blalock, Accountant, Research Administrator
Eugene H. Bergman, Internal Auditor

Albuquerque, New Mexico
December 1, 1964
ACCOUNTANTS' REPORT

Board of Regents
University of New Mexico
Albuquerque, New Mexico

We have examined the consolidating balance sheet of the University of New Mexico as of June 30, 1964 and the related statements of surplus and fund principal and revenues and expenditures for the year then ended. Our examination was made in accordance with generally accepted auditing standards and the rules and regulations of the State Auditor, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

Current Fund revenues and expenditures include amounts expended and reimbursed during the fiscal year on the various Agency Fund research and Peace Corps contracts. Trust income and amounts received for scholarships and stipends and the payment thereof have also been included as Current Fund revenues and expenditures. In prior years these items were included only as revenues and expenditures of the Agency and Endowment Funds.

In our opinion, the accompanying balance sheet, statements of surplus and fund principal, and revenues and expenditures present fairly the financial position of the University of New Mexico at June 30, 1964 and the results of its operations for the year then ended, in conformity with generally accepted institutional accounting principles applied on a basis consistent with that of the preceding year, except as noted in the preceding paragraph.

The accompanying comments and schedules, though not considered necessary for a fair presentation of financial position and results of operations, are presented mainly for supplementary analysis purposes and to give information as to the scope of work. While our examination was made primarily for the purpose of formulating our opinion on the current year's basic financial statements, the additional data have been subjected to the same audit procedures and, in our opinion, are stated fairly in all material respects when considered in conjunction with the financial statements taken as a whole.

DENHAM, YOUNGBERG & CO.

October 7, 1964
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## UNIVERSITY OF NEW MEXICO

### Consolidating Balance Sheet

**June 30, 1964**

### Assets

<table>
<thead>
<tr>
<th>Description</th>
<th>Combined</th>
<th>Current Fund</th>
<th>Restricted Fund</th>
<th>Loan Fund</th>
<th>Endowment Fund</th>
<th>Plant Fund</th>
<th>Agency Fund</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cash:</strong></td>
<td>$34,755.00</td>
<td>$34,705.00</td>
<td>50.00</td>
<td>1,608.59</td>
<td>(622,633.28)</td>
<td></td>
<td>126,694.98</td>
</tr>
<tr>
<td>Petty Cash</td>
<td>779,089.04</td>
<td>826,719.45</td>
<td>291,064.70</td>
<td>71,529.01</td>
<td>(622,633.28)</td>
<td></td>
<td>126,694.98</td>
</tr>
<tr>
<td>Cash on deposit (Schedule 1)</td>
<td>3,408.59</td>
<td></td>
<td>866,759.43</td>
<td>1,608.59</td>
<td>(622,633.28)</td>
<td></td>
<td>126,694.98</td>
</tr>
<tr>
<td>Cash held by the State Treasurer</td>
<td>818,082.63</td>
<td>861,436.43</td>
<td>291,064.70</td>
<td>71,529.01</td>
<td>(622,633.28)</td>
<td></td>
<td>126,694.98</td>
</tr>
<tr>
<td>Accounts receivable and deposits</td>
<td>1,597,457.30</td>
<td>228,390.91</td>
<td>88,585.74</td>
<td>15,000.00</td>
<td>850,000.00</td>
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<td>415,480.65</td>
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<td>Loans and notes receivable</td>
<td>779,481.74</td>
<td></td>
<td>750,888.46</td>
<td>15,201.56</td>
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<td></td>
<td>2,502.49</td>
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<tr>
<td>Inventories</td>
<td>554,636.92</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Prepaid expenses and deferred charges</td>
<td>771,602.53</td>
<td></td>
<td>109,265.70</td>
<td></td>
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<tr>
<td>Investments (Schedule 2)</td>
<td>7,579,725.23</td>
<td>1,002,778.95</td>
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<tr>
<td>Investment in plant (Schedule 3)</td>
<td>37,625,280.53</td>
<td>1,753,697.98</td>
<td>1,293,843.65</td>
<td>6,680,085.44</td>
<td>397,497.87</td>
<td>38,128,395.64</td>
<td>544,678.12</td>
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### Liabilities

<table>
<thead>
<tr>
<th>Description</th>
<th>Combined</th>
<th>Current Fund</th>
<th>Restricted Fund</th>
<th>Loan Fund</th>
<th>Endowment Fund</th>
<th>Plant Fund</th>
<th>Agency Fund</th>
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<tbody>
<tr>
<td>Vouchers payable</td>
<td>$129,140.12</td>
<td>129,408.81</td>
<td>313.07</td>
<td>21.08</td>
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<td>4,933.49</td>
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<td>Accounts payable and accrued liabilities</td>
<td>400,329.27</td>
<td>400,329.27</td>
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<td>68,402.70</td>
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<tr>
<td>Deposits</td>
<td>100,359.37</td>
<td>32,196.67</td>
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<td>445,558.90</td>
<td>445,558.90</td>
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<tr>
<td>Deferred income</td>
<td>445,558.90</td>
<td>445,558.90</td>
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<tr>
<td>Notes and contracts payable</td>
<td>656,642.70</td>
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<td>Bonds payable (Schedule 4)</td>
<td>13,807,000.00</td>
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### Total liabilities

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<tr>
<th>Description</th>
<th>Combined</th>
<th>Current Fund</th>
<th>Restricted Fund</th>
<th>Loan Fund</th>
<th>Endowment Fund</th>
<th>Plant Fund</th>
<th>Agency Fund</th>
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</thead>
<tbody>
<tr>
<td>Reserve for encumbrances</td>
<td>19,478.75</td>
<td>19,478.75</td>
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### Surplus and fund principal:

#### Unappropriated surplus

<table>
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<tr>
<th>Description</th>
<th>Combined</th>
<th>Current Fund</th>
<th>Restricted Fund</th>
<th>Loan Fund</th>
<th>Endowment Fund</th>
<th>Plant Fund</th>
<th>Agency Fund</th>
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<tbody>
<tr>
<td>Unappropriated surplus</td>
<td>161,130.76</td>
<td>161,130.76</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>47,627.77</td>
</tr>
<tr>
<td>Appropriated surplus</td>
<td>161,130.76</td>
<td>161,130.76</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>386,747.64</td>
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<tr>
<td>Restricted surplus</td>
<td>1,293,843.65</td>
<td>1,293,843.65</td>
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<td></td>
<td></td>
<td>23,643,039.50</td>
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<td>Unexpended reserves</td>
<td>508,411.18</td>
<td>508,411.18</td>
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<td></td>
<td></td>
<td>13,807,000.00</td>
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<tr>
<td>Fund principal</td>
<td>31,982,517.36</td>
<td>878,107.34</td>
<td>6,600,028.59</td>
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<td>397,497.87</td>
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</table>

### Total surplus and fund principal (Exhibit B)

<table>
<thead>
<tr>
<th>Description</th>
<th>Combined</th>
<th>Current Fund</th>
<th>Restricted Fund</th>
<th>Loan Fund</th>
<th>Endowment Fund</th>
<th>Plant Fund</th>
<th>Agency Fund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total surplus and fund principal (Exhibit B)</td>
<td>$49,726,246.88</td>
<td>1,753,697.98</td>
<td>1,293,843.65</td>
<td>926,048.18</td>
<td>6,680,085.44</td>
<td>397,497.87</td>
<td>38,128,395.64</td>
</tr>
</tbody>
</table>
UNIVERSITY OF NEW MEXICO

Consolidating Statement of Surplus and Fund Principal

Year Ended June 30, 1964

<table>
<thead>
<tr>
<th>Combined</th>
<th>Eliminations (Schedule 3)</th>
<th>Current (Schedule 4)</th>
<th>Restricted (Schedule 4)</th>
<th>Loan (Schedule 5)</th>
<th>Endowment (Schedule 5)</th>
<th>Plant (Schedule 6)</th>
<th>Reserves</th>
<th>Investment (Schedule 7)</th>
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</thead>
<tbody>
<tr>
<td>Balance, July 1, 1963:</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Unappropriated surplus</td>
<td>$354,121.65</td>
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<tr>
<td>Appropriated surplus</td>
<td>576,143.39</td>
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<td></td>
</tr>
<tr>
<td>Restricted surplus</td>
<td>1,100,959.64</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unexpended reserves</td>
<td>1,203,327.19</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fund principal</td>
<td>28,209,862.79</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>31,644,634.66</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Additions for the Year, Net: |
| Revenues | $21,189,447.12 |
| Excess revenues over expenditures | 271,554.88 |
| Refund of contribution to National Defense Student Loan Fund | 434.13 |
| Provision for uninsurable losses in excess of losses incurred | 3,303.57 |
| Accrued interest on sale of Dormitory Revenue Bonds of 1962 | 5,213.02 |
| Appropriated from the Current Fund for retirement of bonds | 13,295.80 |
| Unexpended bond proceeds restricted to bond retirement reserve | 642,000.00 |
| Adjustments of property inventory June 30, 1963 | 8,957.51 |
| Additions to plant from unexpended reserves | 1,563,698.90 |
| Additions to plant from other funds | 837,868.40 |
| Transfers from (to) other funds | 2,683,063.11 |
| Net Additions | $34,127,697.77 |

| Balance June 30, 1964 | $34,127,697.77 |

| Represented By: |
| Unappropriated surplus | 161,130.76 |
| Appropriated surplus | 565,594.82 |
| Restricted surplus | 1,293,843.65 |
| Unexpended reserves | 508,411.18 |
| Fund principal | 31,644,634.66 |
| Total | $34,127,697.77 |
### Statement of Revenues and Expenditures

**With Budget Comparison**

**Year Ended June 30, 1964**

<table>
<thead>
<tr>
<th>Revenues</th>
<th>Budget Estimate</th>
<th>Actual Revenues</th>
<th>Actual Over (Under)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Educational and General:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student fees</td>
<td>$1,465,000.00</td>
<td>1,545,705.50</td>
<td>80,705.50</td>
</tr>
<tr>
<td>Land and Permanent Fund income (unpledged)</td>
<td>260,000.00</td>
<td>260,000.00</td>
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<tr>
<td>State appropriation</td>
<td>5,563,000.00</td>
<td>5,563,000.00</td>
<td></td>
</tr>
<tr>
<td>Federal instructional grants</td>
<td>56,000.00</td>
<td>55,976.20</td>
<td>(23.80)</td>
</tr>
<tr>
<td>Gifts and grants from private sources</td>
<td>100,000.00</td>
<td>100,000.00</td>
<td></td>
</tr>
<tr>
<td>Miscellaneous sources:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Research overhead</td>
<td>117,617.00</td>
<td>85,335.68</td>
<td>(32,281.32)</td>
</tr>
<tr>
<td>Los Alamos and Holloman instructional programs</td>
<td>126,125.00</td>
<td>66,565.21</td>
<td>(59,559.79)</td>
</tr>
<tr>
<td>Sandia Base subsidy</td>
<td>65,000.00</td>
<td>63,572.22</td>
<td>(1,427.78)</td>
</tr>
<tr>
<td>Other</td>
<td>55,875.00</td>
<td>74,148.32</td>
<td>18,273.32</td>
</tr>
<tr>
<td><strong>Total educational and general</strong></td>
<td>7,808,617.00</td>
<td>7,814,303.13</td>
<td>5,686.13</td>
</tr>
<tr>
<td><strong>Organized Activities Relating to Instruction:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intercollegiate athletics</td>
<td>720,000.00</td>
<td>723,258.66</td>
<td>3,258.66</td>
</tr>
<tr>
<td><strong>Noneducational Income:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student fees, pledged to bond issues</td>
<td>872,200.00</td>
<td>872,200.00</td>
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</tr>
<tr>
<td>Land and Permanent Fund income, pledged</td>
<td>174,080.00</td>
<td>174,080.00</td>
<td></td>
</tr>
<tr>
<td>Rent, Geology Building, pledged</td>
<td>34,000.00</td>
<td>37,396.20</td>
<td>3,396.20</td>
</tr>
<tr>
<td>Scholarship income and stipends</td>
<td>524,800.00</td>
<td>449,436.76</td>
<td>(75,363.24)</td>
</tr>
<tr>
<td>Western Regional and Dental Programs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>appropriation</td>
<td>150,000.00</td>
<td>150,000.00</td>
<td></td>
</tr>
<tr>
<td><strong>Total noneducational</strong></td>
<td>1,755,080.00</td>
<td>1,683,112.96</td>
<td>(71,967.04)</td>
</tr>
<tr>
<td><strong>Auxiliary Enterprises:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dining halls</td>
<td>940,000.00</td>
<td>938,589.39</td>
<td>(1,410.61)</td>
</tr>
<tr>
<td>Residence halls</td>
<td>560,000.00</td>
<td>558,025.43</td>
<td>(1,974.57)</td>
</tr>
<tr>
<td>University Golf Course</td>
<td>180,000.00</td>
<td>182,272.28</td>
<td>2,272.28</td>
</tr>
<tr>
<td>Heating plant</td>
<td>388,000.00</td>
<td>381,324.93</td>
<td>(6,675.07)</td>
</tr>
<tr>
<td>Printing plant</td>
<td>330,000.00</td>
<td>324,850.59</td>
<td>(5,149.41)</td>
</tr>
<tr>
<td>Associated Students Bookstore</td>
<td>800,000.00</td>
<td>799,954.99</td>
<td>(45.01)</td>
</tr>
<tr>
<td>New Mexico Union</td>
<td>590,000.00</td>
<td>607,031.99</td>
<td>17,031.99</td>
</tr>
<tr>
<td>Student health service</td>
<td>132,000.00</td>
<td>132,050.00</td>
<td>50.00</td>
</tr>
<tr>
<td><strong>Total auxiliary enterprises</strong></td>
<td>3,920,000.00</td>
<td>3,924,099.60</td>
<td>4,099.60</td>
</tr>
<tr>
<td><strong>Noninstructional Research:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State appropriation</td>
<td>271,950.00</td>
<td>271,950.00</td>
<td></td>
</tr>
<tr>
<td>Sale of publications</td>
<td>80,865.00</td>
<td>80,668.70</td>
<td>(196.30)</td>
</tr>
<tr>
<td><strong>State Department of Development grant</strong></td>
<td>37,185.00</td>
<td>29,070.68</td>
<td>(8,114.32)</td>
</tr>
<tr>
<td><strong>Total noninstructional research</strong></td>
<td>390,000.00</td>
<td>381,689.38</td>
<td>(8,310.62)</td>
</tr>
</tbody>
</table>
Statement of Revenues and Expenditures
With Budget Comparison

<table>
<thead>
<tr>
<th>Revenues</th>
<th>Budget Estimate</th>
<th>Actual Revenues</th>
<th>Actual Over (Under)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Noninstructional Organized Activities:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Television instruction</td>
<td>$108,000.00</td>
<td>108,500.00</td>
<td>$500.00</td>
</tr>
<tr>
<td><strong>Sponsored Research:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal contracts and grants</td>
<td>1,097,000.00</td>
<td>1,113,794.27</td>
<td>$16,794.27</td>
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<tr>
<td>Air Force Shock Tube</td>
<td>490,000.00</td>
<td>458,169.02</td>
<td>($11,830.98)</td>
</tr>
<tr>
<td>Sandia Corporation</td>
<td>93,000.00</td>
<td>107,387.61</td>
<td>$14,387.61</td>
</tr>
<tr>
<td><strong>Total sponsored research</strong></td>
<td>1,680,000.00</td>
<td>1,679,350.90</td>
<td>($649.10)</td>
</tr>
<tr>
<td><strong>Sponsored Organized Activities:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peace Corps.</td>
<td>1,380,000.00</td>
<td>1,375,448.58</td>
<td>($4,551.42)</td>
</tr>
<tr>
<td><strong>Total Current Fund Revenues</strong></td>
<td>17,761,697.00</td>
<td>17,689,763.21</td>
<td>($71,933.79)</td>
</tr>
<tr>
<td><strong>Receipts for Capital Outlay:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dormitory Revenue Bonds of 1962</td>
<td>385,000.00</td>
<td>385,000.00</td>
<td>($92,000.00)</td>
</tr>
<tr>
<td>Federal grant</td>
<td>92,000.00</td>
<td>92,000.00</td>
<td>($2,000.00)</td>
</tr>
<tr>
<td>Sale of property</td>
<td>200,000.00</td>
<td>11,783.06</td>
<td>($188,216.94)</td>
</tr>
<tr>
<td>Gifts and grants from private sources</td>
<td>200,000.00</td>
<td>120,000.00</td>
<td>($80,000.00)</td>
</tr>
<tr>
<td>Land and Permanent Fund income (unpledged)</td>
<td>17,228.42</td>
<td>17,228.42</td>
<td>($99.52)</td>
</tr>
<tr>
<td>Sandia subsidy</td>
<td>30,000.00</td>
<td>29,655.48</td>
<td>($344.52)</td>
</tr>
<tr>
<td>Rent of property</td>
<td>60,000.00</td>
<td>52,589.47</td>
<td>($5,410.53)</td>
</tr>
<tr>
<td>Interest on invested plant funds</td>
<td>40,000.00</td>
<td>44,859.01</td>
<td>($4,859.01)</td>
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<tr>
<td>Los Alamos and Holloman overhead</td>
<td>60,000.00</td>
<td>57,824.69</td>
<td>($2,175.31)</td>
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<tr>
<td>Student fees</td>
<td>35,000.00</td>
<td>35,190.00</td>
<td>($190.00)</td>
</tr>
<tr>
<td>Depreciation transfers</td>
<td>30,000.00</td>
<td>35,416.00</td>
<td>($5,416.00)</td>
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<tr>
<td>Overhead</td>
<td>283,011.00</td>
<td>340,335.67</td>
<td>($57,324.67)</td>
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<td>Other</td>
<td>20,000.00</td>
<td>7,346.87</td>
<td>($12,653.13)</td>
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<tr>
<td><strong>Total receipts for capital outlay</strong></td>
<td>1,435,011.00</td>
<td>1,165,228.67</td>
<td>($269,782.33)</td>
</tr>
<tr>
<td><strong>Balance from Previous Year</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Educational and general</td>
<td>237,783.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Noneducational</td>
<td>83,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Noninstructional organized activities</td>
<td>53,900.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Capital Outlay</strong></td>
<td>1,864,989.00</td>
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<tr>
<td><strong>Total budget</strong></td>
<td>$21,436,380.00</td>
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<tr>
<td>Expenditures</td>
<td>Budget Estimate</td>
<td>Actual Expenditures</td>
<td>Unexpended (Overexpended)</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>-----------------</td>
<td>---------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>Administrative and general expense:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administration</td>
<td>$586,150.00</td>
<td>603,929.57</td>
<td>$17,779.57</td>
</tr>
<tr>
<td>Student welfare services</td>
<td>291,600.00</td>
<td>292,307.75</td>
<td>$707.75</td>
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<tr>
<td>General expense</td>
<td>266,250.00</td>
<td>263,239.73</td>
<td>3,010.27</td>
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<tr>
<td>Less general overhead applied to other departments</td>
<td>1,144,000.00</td>
<td>1,159,477.05</td>
<td>$15,477.05</td>
</tr>
<tr>
<td>Total administration and general</td>
<td>124,000.00</td>
<td>155,521.72</td>
<td>$31,521.72</td>
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<tr>
<td>Instruction:</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Academic vice-president</td>
<td>42,500.00</td>
<td>43,290.16</td>
<td>$790.16</td>
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<tr>
<td>Graduate School</td>
<td>50,500.00</td>
<td>49,504.60</td>
<td>995.40</td>
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<tr>
<td>General honors program</td>
<td>3,500.00</td>
<td>3,500.04</td>
<td>(.04)</td>
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<tr>
<td>Sandia Technical Development Program</td>
<td>20,400.00</td>
<td>19,844.78</td>
<td>555.22</td>
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<tr>
<td>College of Arts and Sciences</td>
<td>1,970,750.00</td>
<td>1,966,721.92</td>
<td>4,028.08</td>
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<tr>
<td>College of Business Administration</td>
<td>122,700.00</td>
<td>122,167.19</td>
<td>532.81</td>
</tr>
<tr>
<td>College of Education</td>
<td>507,650.00</td>
<td>508,799.79</td>
<td>($1,149.79)</td>
</tr>
<tr>
<td>College of Engineering</td>
<td>494,225.00</td>
<td>492,925.99</td>
<td>1,299.01</td>
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<tr>
<td>College of Fine Arts</td>
<td>407,775.00</td>
<td>410,496.36</td>
<td>($2,721.36)</td>
</tr>
<tr>
<td>College of Law</td>
<td>103,500.00</td>
<td>103,790.76</td>
<td>($290.76)</td>
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<td>College of Nursing</td>
<td>82,300.00</td>
<td>83,515.90</td>
<td>($1,215.90)</td>
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<tr>
<td>College of Pharmacy</td>
<td>65,400.00</td>
<td>64,646.30</td>
<td>753.70</td>
</tr>
<tr>
<td>University College</td>
<td>29,000.00</td>
<td>28,938.02</td>
<td>61.98</td>
</tr>
<tr>
<td>Summer and field sessions</td>
<td>200,000.00</td>
<td>194,484.30</td>
<td>5,515.70</td>
</tr>
<tr>
<td>Television classes</td>
<td>2,000.00</td>
<td>2,000.00</td>
<td></td>
</tr>
<tr>
<td>Dental Hygiene</td>
<td>31,450.00</td>
<td>26,197.23</td>
<td>5,252.77</td>
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<tr>
<td>School of Medicine</td>
<td>217,300.00</td>
<td>185,072.70</td>
<td>32,227.30</td>
</tr>
<tr>
<td>Other instruction</td>
<td>619,050.00</td>
<td>628,572.07</td>
<td>($9,522.07)</td>
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<tr>
<td>Total instruction</td>
<td>4,970,000.00</td>
<td>4,934,468.11</td>
<td>35,531.89</td>
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<tr>
<td>Off-campus instruction</td>
<td>300,000.00</td>
<td>237,822.20</td>
<td>62,177.80</td>
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<tr>
<td>Libraries</td>
<td>525,000.00</td>
<td>514,290.25</td>
<td>10,709.75</td>
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<tr>
<td>Operation and maintenance of physical plant</td>
<td>1,310,000.00</td>
<td>1,403,260.30</td>
<td>($93,260.30)</td>
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<tr>
<td>Less charges applied to other departments</td>
<td>140,000.00</td>
<td>239,143.81</td>
<td>99,143.81</td>
</tr>
<tr>
<td>Total operation and maintenance</td>
<td>1,170,000.00</td>
<td>1,164,116.49</td>
<td>($5,883.51)</td>
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<tr>
<td>Total educational and general</td>
<td>7,985,000.00</td>
<td>7,854,652.38</td>
<td>130,347.62</td>
</tr>
<tr>
<td>Organized Activities Relating to Instruction:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intercollegiate athletics</td>
<td>692,000.00</td>
<td>693,418.27</td>
<td>($1,418.27)</td>
</tr>
<tr>
<td>Science Fair</td>
<td>7,000.00</td>
<td>5,071.23</td>
<td>1,928.77</td>
</tr>
<tr>
<td>University Band</td>
<td>2,000.00</td>
<td>2,003.18</td>
<td>(.18)</td>
</tr>
<tr>
<td>Home management house</td>
<td>2,000.00</td>
<td>1,987.81</td>
<td>12.19</td>
</tr>
<tr>
<td>Total organized activities</td>
<td>703,000.00</td>
<td>702,480.49</td>
<td>519.51</td>
</tr>
</tbody>
</table>
### UNIVERSITY OF NEW MEXICO

Statement of Revenues and Expenditures With Budget Comparison

<table>
<thead>
<tr>
<th>Description</th>
<th>Budget Estimate</th>
<th>Actual Expenditures</th>
<th>Unexpended (Overexpended)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Noneducational:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Building and improvement bond principal and interest</td>
<td>$174,080.00</td>
<td>174,077.50</td>
<td>2.50</td>
</tr>
<tr>
<td>Revenue bond principal, interest and reserve funds</td>
<td>1,053,300.00</td>
<td>1,052,511.09</td>
<td>788.91</td>
</tr>
<tr>
<td>Interest on loans</td>
<td>40,500.00</td>
<td>40,628.69</td>
<td>(128.69)</td>
</tr>
<tr>
<td>Scholarships, fellowships and stipends</td>
<td>581,700.00</td>
<td>505,341.76</td>
<td>76,358.24</td>
</tr>
<tr>
<td>Western Regional and Dental programs</td>
<td>164,000.00</td>
<td>162,500.00</td>
<td>1,500.00</td>
</tr>
<tr>
<td>Rent</td>
<td>25,500.00</td>
<td>33,792.88</td>
<td>(8,292.88)</td>
</tr>
<tr>
<td><strong>Total noneducational</strong></td>
<td>2,039,080.00</td>
<td>1,968,851.92</td>
<td>70,228.08</td>
</tr>
<tr>
<td><strong>Auxiliary Enterprises:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dining halls</td>
<td>875,142.00</td>
<td>869,367.47</td>
<td>5,774.53</td>
</tr>
<tr>
<td>Residence halls</td>
<td>450,000.00</td>
<td>423,207.20</td>
<td>26,792.80</td>
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<tr>
<td>University Golf Course</td>
<td>155,000.00</td>
<td>148,183.49</td>
<td>6,816.51</td>
</tr>
<tr>
<td>Heating plant</td>
<td>376,000.00</td>
<td>389,279.81</td>
<td>(13,279.81)</td>
</tr>
<tr>
<td>Printing plant</td>
<td>310,000.00</td>
<td>296,135.44</td>
<td>13,864.56</td>
</tr>
<tr>
<td>Associated Students Bookstore</td>
<td>700,000.00</td>
<td>728,887.80</td>
<td>(28,887.80)</td>
</tr>
<tr>
<td>New Mexico Union</td>
<td>655,000.00</td>
<td>631,484.02</td>
<td>23,515.98</td>
</tr>
<tr>
<td>Student health service</td>
<td>128,858.00</td>
<td>131,147.28</td>
<td>(2,289.28)</td>
</tr>
<tr>
<td><strong>Total auxiliary enterprises</strong></td>
<td>3,650,000.00</td>
<td>3,617,692.51</td>
<td>32,307.49</td>
</tr>
<tr>
<td><strong>Noninstructional Research:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Press and publications</td>
<td>135,200.00</td>
<td>131,194.10</td>
<td>4,005.90</td>
</tr>
<tr>
<td>Research and computer center</td>
<td>61,400.00</td>
<td>66,196.04</td>
<td>(4,796.04)</td>
</tr>
<tr>
<td>General research</td>
<td>31,650.00</td>
<td>31,940.38</td>
<td>(290.38)</td>
</tr>
<tr>
<td>State resources development</td>
<td>59,135.00</td>
<td>52,125.15</td>
<td>7,099.85</td>
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<tr>
<td>Bureau of Business Research</td>
<td>71,915.00</td>
<td>71,915.00</td>
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</tr>
<tr>
<td>Historical research</td>
<td>24,500.00</td>
<td>26,696.77</td>
<td>(2,196.77)</td>
</tr>
<tr>
<td>Meteoritics</td>
<td>1,200.00</td>
<td>1,301.74</td>
<td>(101.74)</td>
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<tr>
<td>Government research</td>
<td>10,000.00</td>
<td>9,511.78</td>
<td>488.22</td>
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<tr>
<td><strong>Total noninstructional research</strong></td>
<td>395,000.00</td>
<td>390,880.96</td>
<td>4,119.04</td>
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<tr>
<td><strong>Noninstructional Organized Activities:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Television instruction</td>
<td>166,000.00</td>
<td>166,000.00</td>
<td></td>
</tr>
<tr>
<td><strong>Sponsored Research:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal contracts and grants</td>
<td>1,097,000.00</td>
<td>1,113,794.27</td>
<td>(16,794.27)</td>
</tr>
<tr>
<td>Air Force Shock Tube</td>
<td>1,490,000.00</td>
<td>1,586,169.02</td>
<td>85,830.98</td>
</tr>
<tr>
<td>Sandia Corporation</td>
<td>93,000.00</td>
<td>107,387.61</td>
<td>(14,387.61)</td>
</tr>
<tr>
<td><strong>Total sponsored research</strong></td>
<td>1,680,000.00</td>
<td>1,679,350.90</td>
<td>649.10</td>
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<tr>
<td><strong>Sponsored Organized Activities:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peace Corps</td>
<td>1,380,000.00</td>
<td>1,375,448.58</td>
<td>4,551.42</td>
</tr>
<tr>
<td><strong>Total Current Fund expenditures</strong></td>
<td>17,998,080.00</td>
<td>17,755,357.74</td>
<td>242,722.26</td>
</tr>
</tbody>
</table>
UNIVERSITY OF NEW MEXICO

Statement of Revenues and Expenditures
With Budget Comparison

<table>
<thead>
<tr>
<th>Capital Outlay:</th>
<th>Budget Estimate</th>
<th>Actual Expenditures</th>
<th>Unexpended (Overexpended)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Land and improvements:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Utility extension</td>
<td>20,000.00</td>
<td>20,000.00</td>
<td></td>
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<tr>
<td>Land purchase</td>
<td>387,500.00</td>
<td>387,514.74</td>
<td>(14.74)</td>
</tr>
<tr>
<td>Land improvements</td>
<td>100,000.00</td>
<td>74,615.74</td>
<td>25,384.26</td>
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<tr>
<td><strong>Total land and improvements</strong></td>
<td>507,500.00</td>
<td>462,130.48</td>
<td>45,369.52</td>
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<tr>
<td><strong>Building and additions:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fine Arts Center</td>
<td>750,000.00</td>
<td>746,963.22</td>
<td>3,036.78</td>
</tr>
<tr>
<td>Library Addition</td>
<td></td>
<td>81,652.65</td>
<td>(81,652.65)</td>
</tr>
<tr>
<td>College of Education building</td>
<td></td>
<td>108,796.18</td>
<td>(108,796.18)</td>
</tr>
<tr>
<td>Dormitories</td>
<td>750,000.00</td>
<td>746,424.04</td>
<td>3,575.96</td>
</tr>
<tr>
<td>Heating plant - Refrigeration system</td>
<td></td>
<td>10,704.53</td>
<td>(10,704.53)</td>
</tr>
<tr>
<td>Journalism</td>
<td>30,000.00</td>
<td>30,000.00</td>
<td></td>
</tr>
<tr>
<td>General campus</td>
<td>70,000.00</td>
<td>51,506.99</td>
<td>18,493.01</td>
</tr>
<tr>
<td>Lawrence Ranch improvements</td>
<td>105,000.00</td>
<td>103,120.90</td>
<td>1,879.10</td>
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<tr>
<td>Medical School building</td>
<td>200,000.00</td>
<td>42,341.20</td>
<td>157,658.80</td>
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<td>Medical School library</td>
<td>90,000.00</td>
<td>97,237.24</td>
<td>(7,237.24)</td>
</tr>
<tr>
<td><strong>Total buildings and additions</strong></td>
<td>1,995,000.00</td>
<td>1,988,746.95</td>
<td>6,253.05</td>
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<tr>
<td><strong>Automotive equipment</strong></td>
<td>20,000.00</td>
<td>17,813.40</td>
<td>2,186.60</td>
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<tr>
<td><strong>Furniture and equipment:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Instruction and research</td>
<td>400,000.00</td>
<td>163,644.48</td>
<td>236,355.52</td>
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<tr>
<td>Auxiliary enterprises</td>
<td>100,000.00</td>
<td>108,031.36</td>
<td>(8,031.36)</td>
</tr>
<tr>
<td>Plant care and maintenance</td>
<td>15,000.00</td>
<td>236.54</td>
<td>14,763.46</td>
</tr>
<tr>
<td>Libraries and books</td>
<td>60,000.00</td>
<td>61,452.27</td>
<td>(1,452.27)</td>
</tr>
<tr>
<td>Peace Corps.</td>
<td>22,500.00</td>
<td>905.00</td>
<td>21,595.00</td>
</tr>
<tr>
<td>Administrative</td>
<td>10,000.00</td>
<td>4,151.91</td>
<td>5,848.09</td>
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<tr>
<td><strong>Total furniture and equipment</strong></td>
<td>607,500.00</td>
<td>338,421.56</td>
<td>269,078.44</td>
</tr>
<tr>
<td><strong>Repairs and maintenance</strong></td>
<td></td>
<td>55,111.93</td>
<td>(55,111.93)</td>
</tr>
<tr>
<td><strong>Payments on contracts</strong></td>
<td></td>
<td>14,148.59</td>
<td>(14,148.59)</td>
</tr>
<tr>
<td><strong>Planning, landscaping and other</strong></td>
<td></td>
<td>12,365.64</td>
<td>(12,365.64)</td>
</tr>
<tr>
<td><strong>Total capital outlay</strong></td>
<td>3,130,000.00</td>
<td>2,888,738.55</td>
<td>241,261.45</td>
</tr>
</tbody>
</table>

Balances to be carried forward:

| Educational and general                 | 12,300.00       |                     |                           |
| Organized activities                    | 7,000.00        |                     |                           |
| Noneducational                          | 69,000.00       |                     |                           |
| Capital Outlay                          | 220,000.00      |                     |                           |
| **Total budget**                        | $21,436,380.00  |                     |                           |
1. Property and equipment of the University are stated at actual cost where available or at estimated replacement cost. Items of equipment costing $10.00 or more have been capitalized as a part of the Plant Fund and are supported by detailed plant records. In accordance with generally accepted institutional accounting practices, depreciation on buildings and equipment is not reflected in the balance sheet or statement of revenues and expenditures, except for charges of $43,416.00 to auxiliary enterprises. These funds have been transferred to unexpended reserves of the Plant Fund.

2. The Regents of the University of New Mexico entered into long term lease agreements on two pieces of property on University Boulevard N. E. Each lease is for forty-nine years with an option to purchase the property at dates to be determined upon the happening of certain events. The lease rentals on the property in the initial years aggregate $13,892.88 per year, payable monthly, and are subject to increases or decreases provided for in an escalator clause based on the General Commodity Wholesale Price Index published by the Department of Labor. The prices at which the separate options may be exercised total $423,490.00, unless increased by escalator provisions similar to those applicable to the rental payments.

On April 1, 1963 the University obtained a five year lease on land containing a building located at 900 Stanford Dr., N. E. at a rental of $1,250.00 per month. The lease agreement provides for an option to purchase the property for $84,000.00 if exercised between January 1, 1965 and March 31, 1968; a credit will be allowed on the purchase price equal to two-thirds of the rental paid.

The University has leased approximately one and one-half acres of land on University Blvd., N. E. for a period of ten years. The rent on the property is $30,000.00, payable $15,000.00 at the beginning of the term and the balance at the termination subject to interest at 5% per annum. The lease agreement grants the University on option to purchase the property at any time during the term of the lease for $30,000.00, with a credit for any prepayments of rent.
UNIVERSITY OF NEW MEXICO

Investments

June 30, 1964

Restricted Fund:

<table>
<thead>
<tr>
<th>Security Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States Savings bonds, Series J</td>
<td>$60,840.00</td>
</tr>
<tr>
<td>United States Treasury notes, due October 1, 1965, 11/2%</td>
<td>17,917.18</td>
</tr>
<tr>
<td>United States Treasury notes, due May 15, 1966, 3-3/4%</td>
<td>24,981.64</td>
</tr>
<tr>
<td>United States Treasury notes, due August 15, 1966, 4%</td>
<td>24,384.38</td>
</tr>
<tr>
<td>United States Treasury notes, due November 15, 1967, 3-5/8%</td>
<td>24,635.77</td>
</tr>
<tr>
<td>United States Treasury notes, due May 15, 1968, 3-7/8%</td>
<td>7,528.39</td>
</tr>
<tr>
<td>United States Treasury bonds, due October 1, 1969, 4%</td>
<td>50,063.00</td>
</tr>
<tr>
<td>United States Treasury bonds, due March 15, 1970, 2-1/2%</td>
<td>109,598.58</td>
</tr>
<tr>
<td>United States Treasury bond, due February 15, 1972, 4%</td>
<td>53,513.31</td>
</tr>
<tr>
<td>United States Treasury bonds, due June 15, 1974, 3-3/4%</td>
<td>29,617.90</td>
</tr>
<tr>
<td>United States Treasury bonds, due February 15, 1980, 4%</td>
<td>132,074.11</td>
</tr>
<tr>
<td><strong>Total Restricted Fund</strong></td>
<td><strong>1,002,778.95</strong></td>
</tr>
</tbody>
</table>

Endowment Fund:

<table>
<thead>
<tr>
<th>Security Description</th>
<th>Market Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allied Chemical Corporation, 200 shares</td>
<td>$10,925.00</td>
</tr>
<tr>
<td>American Telephone and Telegraph Company, 20 shares</td>
<td>1,470.00</td>
</tr>
<tr>
<td>American Tobacco Company, 320 shares</td>
<td>10,120.00</td>
</tr>
<tr>
<td>Bank of America, 200 shares</td>
<td>14,487.50</td>
</tr>
<tr>
<td>Boston Fund, Inc., 130 shares</td>
<td>4,777.50</td>
</tr>
<tr>
<td>Connecticut General Life Insurance Co., 60 shares</td>
<td>10,920.00</td>
</tr>
<tr>
<td>Crocker-Citizens National Bank, 627 shares</td>
<td>31,741.88</td>
</tr>
<tr>
<td>Crown Zellerbeck Corporation, 508 shares</td>
<td>27,019.25</td>
</tr>
<tr>
<td>El Paso Natural Gas, 50 shares</td>
<td>959.38</td>
</tr>
<tr>
<td>Filtrol Corporation, 150 shares</td>
<td>5,493.75</td>
</tr>
<tr>
<td>General Electric Company, 300 shares</td>
<td>23,925.00</td>
</tr>
<tr>
<td>General Portland Cement Co., 96 shares</td>
<td>2,472.00</td>
</tr>
<tr>
<td>Goodyear Tire and Rubber Company, 561 shares</td>
<td>24,052.88</td>
</tr>
<tr>
<td>Hartford Fire Insurance Company, 204 shares</td>
<td>16,320.00</td>
</tr>
<tr>
<td>Hershey Chocolate Corporation, 90 shares</td>
<td>3,127.50</td>
</tr>
<tr>
<td>Hunt Foods and Industries, Inc., 50 shares</td>
<td>1,543.75</td>
</tr>
<tr>
<td>Kennecott Copper Corporation, 80 shares</td>
<td>6,630.00</td>
</tr>
<tr>
<td>Lone Star Cement Corporation, 92 shares</td>
<td>1,932.00</td>
</tr>
<tr>
<td>Mesabi Trust, 2,420 units</td>
<td>35,997.50</td>
</tr>
<tr>
<td>Pacific Gas and Electric Company, 300 shares</td>
<td>9,225.00</td>
</tr>
<tr>
<td>Pacific Lighting Corporation, 240 shares</td>
<td>7,230.00</td>
</tr>
<tr>
<td>Pillsbury Company, 300 shares</td>
<td>18,225.00</td>
</tr>
<tr>
<td>Proctor and Gamble, 600 shares</td>
<td>49,650.00</td>
</tr>
<tr>
<td>Public Service Co. of New Mexico, 75 Shares</td>
<td>2,545.31</td>
</tr>
<tr>
<td>Pure Oil Company, 190 shares</td>
<td>9,666.25</td>
</tr>
<tr>
<td>Sears Roebuck and Company, 200 shares</td>
<td>23,575.00</td>
</tr>
<tr>
<td>Sherwin Williams Company, 200 shares</td>
<td>21,800.00</td>
</tr>
</tbody>
</table>
Endowment Fund (Continued):

<table>
<thead>
<tr>
<th>Corporate Stocks Listed (Continued):</th>
<th>Market Value</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sperry Rand Corporation, 93 shares</td>
<td>$1,383.75</td>
<td>2,010.87</td>
</tr>
<tr>
<td>Standard Oil Company of California, 259 shares</td>
<td>16,673.13</td>
<td>11,731.00</td>
</tr>
<tr>
<td>Tennessee Gas Transmission, 2nd Preferred, 100 shares</td>
<td>9,900.00</td>
<td>10,850.00</td>
</tr>
<tr>
<td>Texaco, Inc., 400 shares</td>
<td>31,800.00</td>
<td>22,350.00</td>
</tr>
<tr>
<td>Texas Gulf Sulphur, 628 shares</td>
<td>30,144.00</td>
<td>10,430.00</td>
</tr>
<tr>
<td>United States Gypsum Company, 200 shares</td>
<td>18,200.00</td>
<td>19,600.00</td>
</tr>
<tr>
<td>Universal Leaf Tobacco Company, 50 shares</td>
<td>2,181.25</td>
<td>2,100.00</td>
</tr>
<tr>
<td>Westinghouse Electric Corporation, 300 shares</td>
<td>9,150.00</td>
<td>12,712.50</td>
</tr>
<tr>
<td><strong>Total Listed Corporate Stocks</strong></td>
<td>495,263.58</td>
<td>392,831.95</td>
</tr>
</tbody>
</table>

Corporate Stocks Unlisted:

| Freeman-Smith Land Company, 172 shares | 7,052.00 |
| Kansas City Structural Steel Company, 187 shares | 1,075.25 |
| **Total Unlisted Corporate Stocks** | 8,127.25 |

| Trust deed note, due April 22, 1970, 4% | 9,500.00 |
| Faculty real estate mortgage notes | 239,093.98 |

Investments in real estate:

| 1824 Las Lomas Road, N. E., after allowance for depreciation | $17,640.00 |
| 1806 Sigma Chi Road N. E. | 28,500.00 |
| 1809 Los Lomas Road N. E. | 73,000.00 |
| 815 Vassar Dr. N. E., after allowance for depreciation | 13,960.00 |
| 917 Vassar Dr. N. E., after allowance for depreciation | 14,920.00 |
| 1828 Sigma Chi Road, N. E. | 40,000.00 |
| 925 Vassar Drive, N. E., after allowance for depreciation | 13,332.51 |
| **Net investment in real estate** | 201,352.51 |

Funds held in trust by banks | 91,197.71 |

State Permanent Funds invested by the State Investment Council:

| Federal: | |
| U. S. Treasury Securities | 76,308,472.89 |
| Federal Agency guaranteed securities | 66,078,275.67 |
| Federal Agency securities | 44,062,535.42 |
| New Mexico-county, municipality and institutional bonds | 3,798,009.94 |
| Corporate bonds | 11,262,339.41 |
| Corporate common stocks | 50,856,917.77 |
| **252,366,551.10** |

| University Permanent Fund 2.217633% | 5,596,563.92 |
| University Saline Permanent Fund .015168% | 38,278.96 |
| **Total State Permanent Funds invested by the State Investment Council** | 5,634,842.88 |

Total Endowment Fund | 6,576,946.28 |

Total investments | $7,579,725.23 |
UNIVERSITY OF NEW MEXICO

Investments

June 30, 1964

<table>
<thead>
<tr>
<th>Custodians</th>
<th>University Comptroller</th>
<th>Banks</th>
<th>Investment Council</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Exhibit A</strong></td>
<td>1,002,778.95</td>
<td>1,002,778.95</td>
<td>5,634,842.88</td>
</tr>
<tr>
<td>Restricted Fund</td>
<td>6,576,946.28</td>
<td>850,905.69</td>
<td>91,197.71</td>
</tr>
<tr>
<td>Endowment Fund</td>
<td>850,905.69</td>
<td>1,093,976.66</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$7,579,725.23</strong></td>
<td><strong>$7,579,725.23</strong></td>
<td></td>
</tr>
<tr>
<td>Issue</td>
<td>Date of Issue</td>
<td>Interest Rate</td>
<td>Original Issue</td>
</tr>
<tr>
<td>-------</td>
<td>---------------</td>
<td>---------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Buildings and Improvement:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Series E</td>
<td>10-1-34</td>
<td>4%</td>
<td>$189,000.00</td>
</tr>
<tr>
<td>Series F</td>
<td>2-1-36</td>
<td>4%</td>
<td>375,000.00</td>
</tr>
<tr>
<td>Series J</td>
<td>6-1-55</td>
<td>2½%</td>
<td>2,000,000.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Revenue:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Building Bonds of 1948</td>
<td>10-1-48</td>
<td>3½ and 32½%</td>
<td>2,200,000.00</td>
</tr>
<tr>
<td>Recreation Center Improvement Revenue Bonds, Series 1950</td>
<td>3-1-50</td>
<td>3%</td>
<td>171,000.00</td>
</tr>
<tr>
<td>Building Bonds, Series of 1951</td>
<td>8-1-51</td>
<td>3.9%</td>
<td>1,600,000.00</td>
</tr>
<tr>
<td>Building Bonds, Series of 1952</td>
<td>1-1-52</td>
<td>3.6%</td>
<td>900,000.00</td>
</tr>
<tr>
<td>Building Bonds, Series of 1953</td>
<td>6-1-53</td>
<td>2½, 3, 3½%</td>
<td>1,000,000.00</td>
</tr>
<tr>
<td>Dormitory Bonds, Series of 1957</td>
<td>12-1-57</td>
<td>3%</td>
<td>1,800,000.00</td>
</tr>
<tr>
<td>Student Union Building Bonds, Series of 1957</td>
<td>12-1-57</td>
<td>3, 4, and 5%</td>
<td>3,000,000.00</td>
</tr>
<tr>
<td>Dormitory Revenue Bonds of 1962</td>
<td>4-1-62</td>
<td>3½ to 4%</td>
<td>1,435,000.00</td>
</tr>
<tr>
<td>Building Bonds, Series of 1963</td>
<td>4-1-63</td>
<td>2½%</td>
<td>2,500,000.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>
UNIVERSITY OF NEW MEXICO

Current Fund

Revenues, Expenditures and Surplus

Year Ended June 30, 1964
With Comparative Figures for 1963

### Educational and General:

#### Student fees:

<table>
<thead>
<tr>
<th></th>
<th>1964</th>
<th>1963</th>
<th>Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition - campus</td>
<td>$1,376,859.15</td>
<td>1,367,971.46</td>
<td>8,887.69</td>
</tr>
<tr>
<td>Off-campus tuition:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Community evening college</td>
<td>38,621.50</td>
<td>33,711.20</td>
<td>4,910.30</td>
</tr>
<tr>
<td>Los Alamos classes</td>
<td>32,152.40</td>
<td>29,125.60</td>
<td>3,026.80</td>
</tr>
<tr>
<td>Correspondence classes</td>
<td>23,982.94</td>
<td>22,712.19</td>
<td>1,270.75</td>
</tr>
<tr>
<td>Holloman classes</td>
<td>9,505.00</td>
<td>12,153.00</td>
<td>(2,648.00)</td>
</tr>
<tr>
<td>Gallup center</td>
<td>7,203.60</td>
<td>6,624.40</td>
<td>579.20</td>
</tr>
<tr>
<td>Extension classes</td>
<td>9,524.00</td>
<td>11,933.00</td>
<td>(2,409.00)</td>
</tr>
<tr>
<td>All other student fees</td>
<td>47,856.91</td>
<td>40,248.17</td>
<td>7,608.74</td>
</tr>
</tbody>
</table>

|                      | 1,545,705.50 | 1,524,479.02 | 21,226.48       |

|                      | 145,000.00   | 50,000.00   | 95,000.00       |
| Permanent Fund income, unpledged | 115,000.00  | 50,000.00  | 65,000.00       |
| State appropriation  | 5,563,000.00 | 4,847,440.00 | 715,560.00     |
| Federal instructional grants | 55,976.20   | 55,976.20  |                |
| Gifts and grants from private sources | 100,000.00  | 100,000.00 |                |
| Research overhead    | 85,335.68   | 122,190.42 | (36,854.74)    |
| Los Alamos instructional program | 35,260.70  | 47,116.11  | (11,855.41)    |
| Holloman instructional program | 31,304.51  | 29,411.65  | 1,892.86       |
| Sandia Base - subsidy | 63,572.22   | 80,637.85  | (17,065.63)    |
| Sales and services from educational departments and other | 74,148.32   | 160,696.60 | (86,548.28)    |
| Total educational and general | 7,814,303.13 | 6,911,971.65 | 902,331.48     |

### Organized Activities Relating to Instruction:

#### Intercollegiate athletics (Schedule 8):

<table>
<thead>
<tr>
<th></th>
<th>1964</th>
<th>1963</th>
<th>Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>State appropriation</td>
<td>100,000.00</td>
<td>88,000.00</td>
<td>12,000.00</td>
</tr>
<tr>
<td>Intercollegiate athletics income</td>
<td>623,258.66</td>
<td>513,799.62</td>
<td>109,459.04</td>
</tr>
<tr>
<td>Total organized activities</td>
<td>723,258.66</td>
<td>601,799.62</td>
<td>121,459.04</td>
</tr>
</tbody>
</table>

### Noneducational Income:

<table>
<thead>
<tr>
<th></th>
<th>1964</th>
<th>1963</th>
<th>Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student fees, pledged to bond issues</td>
<td>872,200.00</td>
<td>637,535.00</td>
<td>234,665.00</td>
</tr>
<tr>
<td>Land income pledged</td>
<td>90,080.00</td>
<td>150,000.00</td>
<td>(59,920.00)</td>
</tr>
<tr>
<td>Permanent Fund income, pledged</td>
<td>84,000.00</td>
<td>85,000.00</td>
<td>(1,000.00)</td>
</tr>
<tr>
<td>Rent, Geology Building, pledged</td>
<td>37,396.20</td>
<td>37,396.20</td>
<td></td>
</tr>
<tr>
<td>Western Regional Program appropriation</td>
<td>150,000.00</td>
<td>145,000.00</td>
<td>5,000.00</td>
</tr>
<tr>
<td>Scholarship gifts</td>
<td>96,192.98</td>
<td>96,192.98</td>
<td></td>
</tr>
<tr>
<td>Scholarship trust income</td>
<td>30,360.66</td>
<td>30,360.66</td>
<td></td>
</tr>
<tr>
<td>Institute stipends</td>
<td>322,883.12</td>
<td>322,883.12</td>
<td></td>
</tr>
<tr>
<td>Total noneducational</td>
<td>1,683,112.96</td>
<td>1,054,931.20</td>
<td>628,181.76</td>
</tr>
</tbody>
</table>
# UNIVERSITY OF NEW MEXICO

## Current Fund

### Revenues, Expenditures and Surplus

#### Revenues

<table>
<thead>
<tr>
<th>Auxiliary Enterprises</th>
<th>1964</th>
<th>1963</th>
<th>Increase (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dining halls (Schedule 9)</td>
<td>938,589.39</td>
<td>804,801.99</td>
<td>133,787.40</td>
</tr>
<tr>
<td>Residence halls (Schedule 10)</td>
<td>558,025.43</td>
<td>448,295.86</td>
<td>109,729.57</td>
</tr>
<tr>
<td>University Golf Course (Schedule 11)</td>
<td>182,272.28</td>
<td>183,153.92</td>
<td>(881.64)</td>
</tr>
<tr>
<td>Heating plant (Schedule 12)</td>
<td>381,324.93</td>
<td>358,441.34</td>
<td>22,883.59</td>
</tr>
<tr>
<td>Printing plant (Schedule 13)</td>
<td>324,850.59</td>
<td>261,356.88</td>
<td>63,493.71</td>
</tr>
<tr>
<td>Associated Students Bookstore (Schedule 15)</td>
<td>799,954.99</td>
<td>691,949.81</td>
<td>108,005.18</td>
</tr>
<tr>
<td>New Mexico Union (Schedule 16)</td>
<td>607,031.99</td>
<td>528,922.10</td>
<td>78,109.89</td>
</tr>
<tr>
<td>Student health service</td>
<td>132,050.00</td>
<td>118,730.00</td>
<td>13,320.00</td>
</tr>
<tr>
<td>Special services</td>
<td>16,878.17</td>
<td>16,878.17</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>Total auxiliary enterprises</strong></td>
<td><strong>3,924,099.60</strong></td>
<td><strong>3,412,530.07</strong></td>
<td><strong>511,569.53</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Noninstructional Research:</th>
<th>1964</th>
<th>1963</th>
<th>Increase (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td>State appropriation</td>
<td>271,950.00</td>
<td>225,000.00</td>
<td>46,950.00</td>
</tr>
<tr>
<td>University Press (Schedule 17)</td>
<td>68,350.03</td>
<td>62,895.68</td>
<td>5,454.35</td>
</tr>
<tr>
<td>University publications</td>
<td>12,318.67</td>
<td>7,181.16</td>
<td>5,137.51</td>
</tr>
<tr>
<td>State Department of Development grant</td>
<td>29,070.68</td>
<td>29,070.68</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>Total noninstructional research</strong></td>
<td><strong>381,689.38</strong></td>
<td><strong>295,076.84</strong></td>
<td><strong>86,612.54</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Noninstructional Organized Activities:</th>
<th>1964</th>
<th>1963</th>
<th>Increase (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Television instruction</td>
<td>108,500.00</td>
<td>84,500.00</td>
<td>24,000.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sponsored Research:</th>
<th>1964</th>
<th>1963</th>
<th>Increase (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal contracts and grants</td>
<td>1,113,794.27</td>
<td>1,113,794.27</td>
<td>0.00</td>
</tr>
<tr>
<td>Air Force Shock Tube</td>
<td>458,169.02</td>
<td>458,169.02</td>
<td>0.00</td>
</tr>
<tr>
<td>Sandia Corporation</td>
<td>107,387.61</td>
<td>107,387.61</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>Total sponsored research</strong></td>
<td><strong>1,679,350.90</strong></td>
<td><strong>1,679,350.90</strong></td>
<td><strong>0.00</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sponsored Organized Activities:</th>
<th>1964</th>
<th>1963</th>
<th>Increase (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peace Corps.</td>
<td>1,375,448.58</td>
<td>1,375,448.58</td>
<td>0.00</td>
</tr>
</tbody>
</table>

| **Total revenues** | **17,689,763.21** | **12,360,809.38** | **5,328,953.83** |

#### Expenditures

##### Educational and General:

**Administration and general:**

<table>
<thead>
<tr>
<th>Administration:</th>
<th>1964</th>
<th>1963</th>
<th>Increase (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative retirement</td>
<td>37,735.25</td>
<td>34,287.51</td>
<td>3,447.74</td>
</tr>
<tr>
<td>Administrative travel</td>
<td>6,354.99</td>
<td>6,168.13</td>
<td>186.86</td>
</tr>
<tr>
<td>Auditing</td>
<td>6,032.00</td>
<td>5,765.00</td>
<td>267.00</td>
</tr>
<tr>
<td>Board of Educational Finance</td>
<td>22,715.00</td>
<td>16,518.00</td>
<td>6,197.00</td>
</tr>
<tr>
<td>Board of Regents</td>
<td>816.18</td>
<td>714.29</td>
<td>101.89</td>
</tr>
<tr>
<td>President's office</td>
<td>38,832.86</td>
<td>34,324.38</td>
<td>4,508.48</td>
</tr>
<tr>
<td>Comptroller's office</td>
<td>198,401.80</td>
<td>175,430.93</td>
<td>22,970.87</td>
</tr>
<tr>
<td>Registrar's office</td>
<td>155,731.61</td>
<td>132,284.25</td>
<td>23,447.36</td>
</tr>
<tr>
<td>Department of Information</td>
<td>29,624.15</td>
<td>20,746.05</td>
<td>8,878.10</td>
</tr>
<tr>
<td>Sports publicity</td>
<td>21,753.76</td>
<td>19,449.00</td>
<td>2,304.76</td>
</tr>
</tbody>
</table>

**Increase (Decrease)**: 

- Schedule 3 Continued
### Schedule 3

**UNIVERSITY OF NEW MEXICO**

**Current Fund**

**Revenues, Expenditures and Surplus**

<table>
<thead>
<tr>
<th>Expenditures</th>
<th>Year Ended June 30,</th>
<th>Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1964</td>
<td>1963</td>
</tr>
<tr>
<td>Educational and General (Continued):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administration and general (Continued):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administration (Continued):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data processing</td>
<td>$33,159.27</td>
<td>2,561.06</td>
</tr>
<tr>
<td>Food Stores</td>
<td>20,986.88</td>
<td>21,176.32</td>
</tr>
<tr>
<td>Legal expense</td>
<td>10,599.82</td>
<td>9,759.29</td>
</tr>
<tr>
<td>Social security taxes</td>
<td>21,186.00</td>
<td>16,798.99</td>
</tr>
<tr>
<td>Total administration</td>
<td>603,929.57</td>
<td>495,983.20</td>
</tr>
<tr>
<td>Student welfare services:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alumni Association</td>
<td>38,206.45</td>
<td>31,152.38</td>
</tr>
<tr>
<td>Counseling and testing</td>
<td>62,248.15</td>
<td>55,119.72</td>
</tr>
<tr>
<td>Development</td>
<td>18,856.27</td>
<td>19,787.43</td>
</tr>
<tr>
<td>High school activities</td>
<td>1,922.51</td>
<td>2,733.52</td>
</tr>
<tr>
<td>Placement Bureau</td>
<td>25,360.57</td>
<td>24,587.47</td>
</tr>
<tr>
<td>Director of student affairs</td>
<td>35,141.73</td>
<td>26,818.45</td>
</tr>
<tr>
<td>Personnel office</td>
<td>110,372.07</td>
<td>95,749.19</td>
</tr>
<tr>
<td>Total student welfare</td>
<td>292,307.75</td>
<td>255,948.16</td>
</tr>
<tr>
<td>General expense</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Campus planning</td>
<td>22,605.33</td>
<td>29,551.94</td>
</tr>
<tr>
<td>Commencement and diplomas</td>
<td>6,595.93</td>
<td>6,072.68</td>
</tr>
<tr>
<td>Dues and memberships</td>
<td>6,263.00</td>
<td>9,920.50</td>
</tr>
<tr>
<td>Group insurance</td>
<td>22,083.48</td>
<td>15,134.41</td>
</tr>
<tr>
<td>Honoraria and moving costs</td>
<td>27,992.38</td>
<td>30,988.73</td>
</tr>
<tr>
<td>Mimeograph and mailing</td>
<td>8,882.12</td>
<td>23,653.23</td>
</tr>
<tr>
<td>Postage and postal service</td>
<td>52,284.14</td>
<td>40,522.59</td>
</tr>
<tr>
<td>Receptions and entertainment</td>
<td>2,977.46</td>
<td>2,652.34</td>
</tr>
<tr>
<td>Telephone and telegraph</td>
<td>82,893.53</td>
<td>70,612.18</td>
</tr>
<tr>
<td>Miscellaneous expense</td>
<td>24,662.36</td>
<td>20,129.08</td>
</tr>
<tr>
<td>Workmen's compensation</td>
<td>6,000.00</td>
<td>6,000.00</td>
</tr>
<tr>
<td>Total general expense</td>
<td>263,239.73</td>
<td>255,237.68</td>
</tr>
<tr>
<td>Less overhead applied to other departments</td>
<td>155,521.72</td>
<td>133,574.19</td>
</tr>
<tr>
<td>Total administration and general</td>
<td>1,159,477.05</td>
<td>1,007,169.04</td>
</tr>
</tbody>
</table>

**Instruction:**

**Administrative:**
- Academic vice-president: $43,290.16, $39,547.73, $3,742.43
- General honors program: $3,500.04, $1,699.92, $1,800.12
- Graduate school: $49,504.60, $42,803.86, $6,700.74
- Sandia Technical Development Program: $19,844.78, $28,445.88, $(8,601.10)

**Total administrative: $116,139.58, $112,497.39, $3,642.19**

**College of Arts and Sciences:**
- Administrative office: $37,583.59, $35,062.51, $2,521.08
- Anthropology: $88,054.14, $74,325.23, $13,728.91
- Anthropology museum: $11,457.28, $11,051.58, $405.70
- Biology: $196,583.39, $167,171.12, $29,412.27
### Schedule 3

#### Continued

**UNIVERSITY OF NEW MEXICO**

**Current Fund**

**Revenues, Expenditures and Surplus**

<table>
<thead>
<tr>
<th>Expenditures</th>
<th>Year Ended June 30</th>
<th>Increase (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Education and General (Continued):</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Instruction (Continued):</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>College of Arts and Sciences</strong> (Continued):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>$152,291.08</td>
<td>126,066.43</td>
</tr>
<tr>
<td>Division of foreign studies</td>
<td>9,621.80</td>
<td>4,510.67</td>
</tr>
<tr>
<td>Economics</td>
<td>72,524.70</td>
<td>69,235.54</td>
</tr>
<tr>
<td>English</td>
<td>280,157.58</td>
<td>250,542.86</td>
</tr>
<tr>
<td>Geography</td>
<td>24,410.27</td>
<td>17,351.44</td>
</tr>
<tr>
<td>Geology</td>
<td>108,795.74</td>
<td>95,155.68</td>
</tr>
<tr>
<td>Government</td>
<td>60,259.10</td>
<td>59,944.83</td>
</tr>
<tr>
<td>History</td>
<td>146,822.13</td>
<td>126,549.24</td>
</tr>
<tr>
<td>Journalism</td>
<td>21,734.64</td>
<td>20,901.86</td>
</tr>
<tr>
<td>Mathematics and astronomy</td>
<td>195,044.99</td>
<td>174,437.50</td>
</tr>
<tr>
<td>Modern languages</td>
<td>197,194.05</td>
<td>173,439.35</td>
</tr>
<tr>
<td>Philosophy</td>
<td>46,863.23</td>
<td>40,582.62</td>
</tr>
<tr>
<td>Physics</td>
<td>131,330.93</td>
<td>105,644.56</td>
</tr>
<tr>
<td>Psychology</td>
<td>82,818.74</td>
<td>78,901.41</td>
</tr>
<tr>
<td>Sociology</td>
<td>31,067.99</td>
<td>43,532.30</td>
</tr>
<tr>
<td>Speech</td>
<td>72,106.55</td>
<td>62,216.76</td>
</tr>
<tr>
<td><strong>Total College of Arts and Sciences</strong></td>
<td>1,966,721.92</td>
<td>1,736,623.49</td>
</tr>
<tr>
<td><strong>College of Business Administration</strong></td>
<td>122,167.19</td>
<td>112,989.47</td>
</tr>
<tr>
<td><strong>College of Education:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administrative office</td>
<td>50,703.59</td>
<td>31,052.73</td>
</tr>
<tr>
<td>Art education</td>
<td>20,252.78</td>
<td>17,418.56</td>
</tr>
<tr>
<td>Elementary education</td>
<td>55,578.80</td>
<td>48,410.64</td>
</tr>
<tr>
<td>Home economics</td>
<td>34,601.01</td>
<td>33,654.32</td>
</tr>
<tr>
<td>Health education and recreation</td>
<td>167,591.30</td>
<td>146,930.52</td>
</tr>
<tr>
<td>Educational and administrative services</td>
<td>88,403.69</td>
<td>81,792.54</td>
</tr>
<tr>
<td>Secondary education</td>
<td>91,668.62</td>
<td>80,113.24</td>
</tr>
<tr>
<td><strong>Total College of Education</strong></td>
<td>508,799.79</td>
<td>439,372.55</td>
</tr>
<tr>
<td><strong>College of Engineering:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administrative office</td>
<td>31,967.23</td>
<td>23,244.06</td>
</tr>
<tr>
<td>Chemical</td>
<td>40,851.47</td>
<td>35,406.81</td>
</tr>
<tr>
<td>Civil</td>
<td>125,079.33</td>
<td>109,650.86</td>
</tr>
<tr>
<td>Nuclear</td>
<td>10,184.81</td>
<td>12,422.10</td>
</tr>
<tr>
<td>Electrical</td>
<td>153,676.43</td>
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<tr>
<td><strong>Total College of Engineering</strong></td>
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<tr>
<td><strong>College of Fine Arts:</strong></td>
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<td>Administrative office</td>
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<tr>
<td>Art gallery</td>
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<td>Architecture</td>
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## University of New Mexico

### Revenues, Expenditures and Surplus

#### Current Fund

#### Schedule 3

#### Expenditures

<table>
<thead>
<tr>
<th>Expenditures</th>
<th>Year Ended June 30,</th>
<th>Increase/Decrease</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1964</td>
<td>1963</td>
</tr>
<tr>
<td></td>
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<tr>
<td>Educational and General (Continued):</td>
<td></td>
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</tr>
<tr>
<td>Instruction (Continued):</td>
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<tr>
<td>College of Fine Arts (Continued):</td>
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<tr>
<td>Art</td>
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<td>13,214.84</td>
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<td></td>
<td>410,496.36</td>
<td>375,297.06</td>
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<tr>
<td>Other instruction</td>
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<tr>
<td>Air Reserve Officers Training</td>
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<td>Intramurals and Extramurals</td>
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<tr>
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<td>1,589.93</td>
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<td>State retirement</td>
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<td>Student employment</td>
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<td>Student participation</td>
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<td>Total other instruction</td>
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<tr>
<td>Off-campus instruction</td>
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<td>Administrative office</td>
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<td>Gallup Center</td>
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<td>Extension class salaries</td>
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<td>Film library</td>
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<td></td>
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<td>Harwood Foundation</td>
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<td>Total off-campus instruction</td>
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<td>Law Library</td>
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<td>Library of the medical sciences</td>
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<td>93,416.23</td>
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UNIVERSITY OF NEW MEXICO

Current Fund

Revenues, Expenditures and Surplus

<table>
<thead>
<tr>
<th>Expenditures</th>
<th>Year Ended June 30,</th>
<th>Increase (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1964</td>
<td>1963</td>
</tr>
<tr>
<td>Educational and General (Continued):</td>
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</tr>
<tr>
<td>Operation and maintenance of physical plant:</td>
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<td></td>
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<td>Administrative office</td>
<td>$128,119.58</td>
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<td>General equipment</td>
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<td>Janitorial service</td>
<td>206,068.24</td>
<td>167,606.33</td>
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<td>Harwood Foundation, Degan and Lawrence Ranch</td>
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<td>16,886.26</td>
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<td>Maintenance of grounds</td>
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<td>95,566.84</td>
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<td>Policemen and watchmen</td>
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<td>Repairs to building and equipment</td>
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<td>411,623.55</td>
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<td>Repairs to vehicles</td>
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<td>Miscellaneous expense</td>
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<tr>
<td>Less charges applied to other departments</td>
<td>239,143.81</td>
<td>159,825.83</td>
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<tr>
<td>Total operation and maintenance of plant</td>
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<td>1,049,861.32</td>
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<tr>
<td>Total educational and general</td>
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<td>6,737,150.71</td>
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<tr>
<td>Organized Activities Relating to Instruction:</td>
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<tr>
<td>Intercollegiate athletics (Schedule 8)</td>
<td>693,418.27</td>
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<td>University Band</td>
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<td>1,866.03</td>
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<td>Total organized activities</td>
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<td>Noneducational:</td>
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<tr>
<td>Building and improvement bond principal</td>
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<td>Scholarships and awards</td>
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<td>126,553.64</td>
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<td>322,883.12</td>
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<td>Dental Program</td>
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<td>31,500.00</td>
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<tr>
<td>Total noneducational</td>
<td>1,968,851.92</td>
<td>1,093,320.71</td>
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### UNIVERSITY OF NEW MEXICO

#### Current Fund

Revenues, Expenditures and Surplus

<table>
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<th>Expenditures</th>
<th>Year Ended June 30, 1964</th>
<th>1963</th>
<th>Increase (Decrease)</th>
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<td><strong>Auxiliary Enterprises:</strong></td>
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<tr>
<td>Dining halls (Schedule 9)</td>
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<td>141,383.86</td>
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<td>325,721.39</td>
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<td>Associated Students Bookstore (Schedule 15)</td>
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<td><strong>Noninstructional Research:</strong></td>
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<td>Bureau of Business Research</td>
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<tr>
<td>Television instruction</td>
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<td>Federal contracts and grants</td>
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<td>Air Force Shock Tube</td>
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<td>Sandia Corporation</td>
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<td>Peace Corps</td>
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<tr>
<td><strong>Total expenditures</strong></td>
<td><strong>17,755,357.74</strong></td>
<td><strong>11,910,240.99</strong></td>
<td><strong>5,845,116.75</strong></td>
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<tr>
<td><strong>Excess of revenues over</strong></td>
<td><strong>(65,594.53)</strong></td>
<td><strong>450,568.39</strong></td>
<td><strong>(516,162.92)</strong></td>
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<tr>
<td><strong>Expenditures</strong></td>
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<td><strong>Transfers to:</strong></td>
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<tr>
<td>Plant Fund</td>
<td><strong>(113,572.22)</strong></td>
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<tr>
<td>Loan Fund</td>
<td><strong>(20,143.11)</strong></td>
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UNIVERSITY OF NEW MEXICO

Current Fund

Revenues, Expenditures and Surplus

Other Additions (Deductions):

Refund of contribution to National Defense Student Loan Fund $ 434.13
Excess group insurance premiums charged against accumulated dividends (7,967.30)
Provision for uninsurable losses in excess of losses incurred 3,303.57

Net deductions (203,539.46)

Surplus, July 1, 1963 930,265.04
Surplus, June 30, 1964 $ 726,725.58

Represented by:

Unappropriated surplus $ 161,130.76
Appropriated surplus:

Western Regional Program 70,583.81
Reserve for payment of bond principal and interest 200,000.00
Reserve for group insurance 39,695.13
Reserve for uninsurable losses 51,520.10
Reserve for bad debt losses 259.55
Associated Students Bookstore 350,948.38
New Mexico Union (147,412.15)

565,594.82

Total (Exhibit B) $ 726,725.58
### UNIVERSITY OF NEW MEXICO

#### Loan Fund

**Revenues, Expenditures and Principal**

**Year Ended June 30, 1964**

<table>
<thead>
<tr>
<th>Unexpended Reserves:</th>
<th>Balance July 1, 1963</th>
<th>Contributions</th>
<th>Interest Earned</th>
<th>Total Revenue</th>
<th>Expenditures</th>
<th>Transfers To (From)</th>
<th>Balance June 30, 1964</th>
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<tr>
<td>Reserve for losses - Deferred payment fees</td>
<td>$36,964.31</td>
<td>10,663.46</td>
<td>10,663.46</td>
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<td>47,627.77</td>
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#### Fund Principals:

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<th>Fund Name</th>
<th>Balance</th>
<th>Contributions</th>
<th>Interest Earned</th>
<th>Total Revenue</th>
<th>Expenditures</th>
<th>Transfers To (From)</th>
<th>Balance</th>
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<td>Altrusa Club Loan Fund</td>
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<td>College of Education Memorial Loan Fund</td>
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<td>Associated Students Loan Fund</td>
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<tr>
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<td>125.17</td>
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<td>Law Student Loan Fund</td>
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<td>Smith Loan Fund</td>
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#### Total fund principals:

$668,754.89

#### Total (Exhibit B):

$705,719.20

---

*Note: The table contains financial data for the Loan Fund, including revenues, expenditures, and principal balances for the year ended June 30, 1964.*
<table>
<thead>
<tr>
<th>Fund Principals:</th>
<th>Balance July 1, 1963</th>
<th>Gifts and Other Transfers</th>
<th>Balance June 30, 1964</th>
<th>Income</th>
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<tr>
<td>Scholarship trust funds:</td>
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<td>Alpha Phi Omega</td>
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<tr>
<td>Ballut Abyad</td>
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<td>175.00</td>
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<td>Philo E. Bennett</td>
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<td>C. M. Botts Memorial</td>
<td>5,000.00</td>
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<td>George F. Breeze</td>
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<td>Buckhart-Parrson Memorial Fund</td>
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<td>1,020.79</td>
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<td>Rufus H. Carter</td>
<td>1,750.00</td>
<td>750.00</td>
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<td>Charles F. Coan</td>
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<td>311.00</td>
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<td>Marian Coons Prize</td>
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<td>Lou Beverly Dameron Memorial Scholarship Fund</td>
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<td>Harry L. Dougherty</td>
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<td>Sam and Frances Joy Dazzo Scholarship Fund</td>
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<td>Mrs. Leslie Demmon Estate</td>
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<td>James M. Dooolittle</td>
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<td>50.00</td>
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<td>First Presbyterian Church - Uvaldo Martinez Memorial Fund</td>
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<td>46.48</td>
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<td>Chester T. French</td>
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<td>500.00</td>
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<td>Friends of the College of Nursing Scholarship Fund</td>
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<td>46.48</td>
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<td>Gausewitz Memorial Award</td>
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<td>Gibson Memorial</td>
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<td>Edward Grasso Memorial Scholarship Fund</td>
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<td>Alfred Grunsfield Memorial</td>
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<td>Miriam Grunsfield Memorial</td>
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<td>250.00</td>
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<td>Dr. Eric F. Hauser Memorial Scholarship Fund</td>
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<td>Telfair Henderson, Jr., Memorial</td>
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<td>490.00</td>
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<td>Hoshour Memorial Fund</td>
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<td>1,912.00</td>
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### UNIVERSITY OF NEW MEXICO

Endowment Fund

Revenues, Expenditures and Principal

Year Ended June 30, 1964

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<td>Mike Millican</td>
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<td>250.00</td>
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<td>Katherine Woodson Fund</td>
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| Student aid and assistance funds: | | | | | | |
| Joe Feinsilver Student Assistance Fund | 36,554.08 | | | | 36,554.08 | 1,416.54 |
| Daniel Jackling Student Loan Fund | 205,414.88 | | | | 205,414.88 | 11,073.65 |
| Total student aid and assistance | trust funds | | | | | |
| | 241,968.96 | | | | 241,968.96 | 12,490.19 |
### UNIVERSITY OF NEW MEXICO

**Endowment Fund**

**Revenues, Expenditures and Principal**

Year Ended June 30, 1964

<table>
<thead>
<tr>
<th>Fund Principals (Continued):</th>
<th>Balance</th>
<th>Gifts and Bequests</th>
<th>Other Additions</th>
<th>Transfers To (From)</th>
<th>Balance</th>
<th>Income</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Other trust funds:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>University Permanent Fund</td>
<td>$ 5,175,033.72</td>
<td>422,927.98</td>
<td>5,597,961.70</td>
<td>199,934.62</td>
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<tr>
<td>University Saline Permanent Fund</td>
<td>37,161.89</td>
<td>1,127.88</td>
<td>38,289.77</td>
<td>1,324.15</td>
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<tr>
<td>Carl Grabo Memorial Fund</td>
<td>2,845.00</td>
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<td>2,845.00</td>
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<tr>
<td><strong>Total other trust funds</strong></td>
<td>5,215,040.61</td>
<td>424,055.86</td>
<td>5,639,096.47</td>
<td>201,391.72</td>
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<tr>
<td><strong>Total Fund principals</strong></td>
<td>$ 6,148,002.05</td>
<td>32,473.08</td>
<td>425,245.46</td>
<td>308.00</td>
<td>6,606,028.59</td>
<td>240,198.03</td>
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</table>

**Disposition of Income:**

| Current Fund - Revenues | 199,000.00 |
| Agency Fund - General Scholarships | 1,023.65 |
| Endowment Fund - Reserves for Scholarships | 37,915.61 |
| Plant Fund | 2,258.77 |

**Total disposition of income**

<table>
<thead>
<tr>
<th></th>
<th>Balance</th>
<th>Revenues</th>
<th>Expenditures</th>
<th>Transfers To (From)</th>
<th>Balance</th>
<th>June 30, 1964</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unexpended Reserves:</strong></td>
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<td></td>
<td></td>
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<td></td>
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<tr>
<td>Reserved for Scholarships</td>
<td>$ 58,577.34</td>
<td>37,915.61</td>
<td>30,360.66</td>
<td>(970.46)</td>
<td>65,161.83</td>
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<tr>
<td>Reserved for losses</td>
<td>7,330.83</td>
<td>581.06</td>
<td>215.61</td>
<td>1,177.66</td>
<td>8,873.94</td>
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<tr>
<td><strong>Fund Principal</strong></td>
<td>65,908.17</td>
<td>38,496.67</td>
<td>30,576.27</td>
<td>207.20</td>
<td>74,035.77</td>
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<tr>
<td><strong>Total (Exhibit B)</strong></td>
<td>$ 6,213,910.22</td>
<td>496,215.21</td>
<td>30,576.27</td>
<td>515.20</td>
<td>6,680,064.36</td>
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## UNIVERSITY OF NEW MEXICO
### Plant Fund

**Revenues, Expenditures and Principal**

**Year Ended June 30, 1964**

<table>
<thead>
<tr>
<th>Description</th>
<th>Unexpended Reserves</th>
<th>Principal Invested in Plant</th>
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<tr>
<td><strong>Balance, July 1, 1963</strong></td>
<td>$1,137,419.02</td>
<td>20,590,514.69</td>
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<tr>
<td><strong>Additions, net:</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>Revenues:</strong></td>
<td></td>
<td></td>
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<tr>
<td>Land income</td>
<td>14,969.65</td>
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<tr>
<td>Permanent Fund income</td>
<td>2,258.77</td>
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<tr>
<td>Sale of Property</td>
<td>11,783.06</td>
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<tr>
<td>Los Alamos and Holloman instructional overhead</td>
<td>57,824.69</td>
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<tr>
<td>Rent - Winrock lease</td>
<td>62,589.47</td>
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<td>Student Fees</td>
<td>35,190.00</td>
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<td>Subsidy - Sandia Corporation</td>
<td>29,655.48</td>
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<tr>
<td>Interest earned</td>
<td>44,859.01</td>
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<tr>
<td>Other</td>
<td>7,346.87</td>
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<td><strong>Total</strong></td>
<td>266,477.00</td>
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<tr>
<td><strong>Expenditures:</strong></td>
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<tr>
<td>Additions to plant:</td>
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<td></td>
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<tr>
<td>Land and improvements</td>
<td>462,130.48</td>
<td>462,130.48</td>
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<tr>
<td>Buildings</td>
<td>731,184.87</td>
<td>731,184.87</td>
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<td>Equipment</td>
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<td>303,896.24</td>
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<td>Books</td>
<td>52,338.72</td>
<td>52,338.72</td>
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<td>Repairs and maintenance</td>
<td>55,111.93</td>
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<tr>
<td>Payments on contracts</td>
<td>14,148.59</td>
<td>14,148.59</td>
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<tr>
<td>Planning and landscaping</td>
<td>7,365.64</td>
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<tr>
<td>Exhibition space - N. M. Pavilion</td>
<td>5,000.00</td>
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<tr>
<td><strong>Total</strong></td>
<td>1,631,176.47</td>
<td>1,563,698.90</td>
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<td><strong>Excess of revenues over expenditures</strong></td>
<td>(1,364,699.47)</td>
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<td><strong>Transfers to the Plant Fund:</strong></td>
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<td>Current Fund surplus</td>
<td>113,572.22</td>
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<td>Agency Fund:</td>
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<td>Overhead</td>
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<td>Kellogg Foundation</td>
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<td><strong>Appropriated from the Current Fund:</strong></td>
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<tr>
<td>For depreciation - Auxiliary enterprises</td>
<td>43,416.00</td>
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<tr>
<td>For New Mexico Union equipment</td>
<td>10,000.00</td>
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<tr>
<td>For retirement of bonds</td>
<td>642,000.00</td>
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<tr>
<td>Unexpended bond proceeds restricted to bond retirement reserve</td>
<td>(13,295.80)</td>
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<td><strong>Additions to plant from:</strong></td>
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<td></td>
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<tr>
<td>Current Fund expenditures</td>
<td>394,920.57</td>
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<tr>
<td>Agency Fund expenditures</td>
<td>382,196.83</td>
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<td>Gifts</td>
<td>60,751.00</td>
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<tr>
<td><strong>Adjustment of property inventory, June 30, 1963</strong></td>
<td>(750,671.38)</td>
<td>8,957.51</td>
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<tr>
<td>Net additions</td>
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<td><strong>Balance, June 30, 1963 (Exhibit B)</strong></td>
<td>$386,747.64</td>
<td>23,643,039.50</td>
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</table>
### Schedule 7

**UNIVERSITY OF NEW MEXICO**

**Agency Fund**

**Revenues, Expenditures and Principal**

**Year Ended June 30, 1964**

<table>
<thead>
<tr>
<th>Balance</th>
<th>Revenues</th>
<th>Expenditures</th>
<th>Transfers</th>
<th>Balance</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>July 1, 1963</strong></td>
<td><strong>June 30, 1964</strong></td>
<td><strong>June 30, 1964</strong></td>
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#### Research Contracts:

<table>
<thead>
<tr>
<th>Agency overhead</th>
<th>$</th>
<th>564,312.80</th>
<th>(564,312.80)</th>
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<tbody>
<tr>
<td><strong>Air Force:</strong></td>
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<tr>
<td>Holloman Air Force Base - Electrical Engineering, AF29(600)-3445</td>
<td>(9.46)</td>
<td>14,490.47</td>
<td>14,487.90</td>
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<tr>
<td>Holloman Air Force Base - Electrical Engineering, AF29(600)-3502</td>
<td>(2.51)</td>
<td>10,569.81</td>
<td>9,485.01</td>
</tr>
<tr>
<td>Meteoric Services, AF29(601)-6284</td>
<td>247.18</td>
<td>42,254.12</td>
<td>42,238.26</td>
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<tr>
<td>Office of Scientific Research - Mechanical Engineering</td>
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<td>4,650.40</td>
<td>4,650.40</td>
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<td>Special Weapons - Electrical Engineering, AF29(601)-2476</td>
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<td>42,254.12</td>
<td>42,238.26</td>
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<td>Special Weapons - Electrical Engineering, AF29(601)-6290</td>
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<tr>
<td>Special Weapons - Shock tube</td>
<td>66,116.00</td>
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<tr>
<td>Special Weapons - Shock tube, AF29(601)-6002</td>
<td>(17.05)</td>
<td>514,618.83</td>
<td>514,600.50</td>
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<tr>
<td>Special Weapons - Mathematics</td>
<td>110.36</td>
<td>52,129.13</td>
<td>52,129.14</td>
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<td>Special Weapons - Mathematical Aides, AF29(601)-6252</td>
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<td>93,956.75</td>
<td>79,890.36</td>
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<td>Systems Command, AF19(628)-2927</td>
<td>(535.02)</td>
<td>37,755.88</td>
<td>37,220.86</td>
</tr>
<tr>
<td>Systems Command, AF19(628)-417</td>
<td>(495.17)</td>
<td>117,402.37</td>
<td>116,909.12</td>
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<td>A.R.M.U. - Public Health Service Support</td>
<td>(44.44)</td>
<td>10,871.98</td>
<td>10,827.56</td>
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<tr>
<td>A.R.M.U. - National Science Foundation support</td>
<td></td>
<td>18,447.99</td>
<td>18,447.99</td>
</tr>
<tr>
<td>Atomic Energy Commission:</td>
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<tr>
<td>Chemistry, AT(11-1)-733</td>
<td>(952.98)</td>
<td>19,868.25</td>
<td>15,772.61</td>
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<tr>
<td>Chemistry, AT(29-2)-915</td>
<td>7,132.55</td>
<td>9,320.40</td>
<td>13,947.97</td>
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<tr>
<td>Department of the Army - Electrical Engineering, DA-29-040-ORD-1238</td>
<td>(6.09)</td>
<td>8,272.78</td>
<td>6,715.34</td>
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<tr>
<td>Department of Defense - ARPA, SD-181</td>
<td>(1,557.44)</td>
<td>8,272.78</td>
<td>6,715.34</td>
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<tr>
<td>Department of the Navy:</td>
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<tr>
<td>Electrical Engineering, N122(62738)29078A</td>
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<tr>
<td>Electrical Engineering, NONR02798(00)(01)</td>
<td>(190.16)</td>
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<td>123,207.57</td>
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<tr>
<td>Jicarilla Apache Tribe - Geography</td>
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<tr>
<td>Miscellaneous Research</td>
<td>597.27</td>
<td>46,387.04</td>
<td>45,789.77</td>
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<tr>
<td>National Aeronautic and Space Agency:</td>
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<tr>
<td>Electrical Engineering, NSG - 129-61</td>
<td>(7,351.26)</td>
<td>31,682.64</td>
<td>23,931.19</td>
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<tr>
<td>Electrical Engineering, NSG - 279-62</td>
<td>6,166.19</td>
<td>21,058.00</td>
<td>26,057.57</td>
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<tr>
<td>Physics, Nona SW-99</td>
<td>(67.60)</td>
<td>13,682.38</td>
<td>13,633.03</td>
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<tr>
<td>New Mexico State Highway Department, Civil Engineering</td>
<td>7,323.02</td>
<td>8,637.77</td>
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<td>New Mexico State Planning Office - Geography</td>
<td>(31.94)</td>
<td>21,995.18</td>
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<tr>
<td>Research - Special Account</td>
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<td>Sandia Corporation:</td>
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<tr>
<td>Chemistry, 51-7990, Task #1</td>
<td>(17.30)</td>
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<td>Chemistry, 51-7990, Task #8</td>
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<td>Chemistry, 13-7663</td>
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</tbody>
</table>
UNIVERSITY OF NEW MEXICO
Agency Fund
Revenues, Expenditures and Principal
Year Ended June 30, 1964

## Research Contracts (Continued):

<table>
<thead>
<tr>
<th>Science and Engineering</th>
<th>Revenues</th>
<th>Expenditures</th>
<th>Transfers</th>
<th>Balance</th>
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<tbody>
<tr>
<td></td>
<td>July 1, 1963</td>
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<td></td>
<td>June 30, 1964</td>
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<tr>
<td>Chemical Engineering, 51-3333</td>
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<td>Electrical Engineering, 51-5134, Task #6</td>
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<td>Electrical Engineering, 74-8181</td>
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<td>Mathematics, 51-7990, Task #2</td>
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<td>Mechanical Engineering, 51-0244 - Task #2</td>
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<td>Nuclear Engineering, 44-0086</td>
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<td>Psychology, 51-9238</td>
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<td>Technical Services, 30-1636</td>
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<td>United States Department of Commerce:</td>
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<td>Economics, 63-2666 BDSA</td>
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<td>Physics, W62750</td>
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<td>United States Department of Health, Education and Welfare,</td>
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<td>PH-86-63-261</td>
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<td>14-20-0600-7672</td>
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<td>United States Department of Interior Bureau of Indian Affairs,</td>
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<td>14-20-0650-1306</td>
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<td>University of California - Lawrence Radiation Lab., 8276105</td>
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<td>Total Research Contracts</td>
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<td></td>
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<tr>
<td></td>
<td>72,785.27</td>
<td>2,076,457.68</td>
<td>1,635,663.68</td>
<td>(513,033.84)</td>
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## UNIVERSITY OF NEW MEXICO

### Agency Fund

**Revenues, Expenditures and Principal**

**Year Ended June 30, 1964**

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<th>Research and Instructional Gifts and Grants:</th>
<th>Balance</th>
<th>Revenues</th>
<th>Expenditures</th>
<th>Transfers</th>
<th>Balance</th>
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*Schedule 7 Continued*
### Research and Instructional Gifts and Grants (Continued):

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<th>Expenditures</th>
<th>Transfers To (From)</th>
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**UNIVERSITY OF NEW MEXICO**

**Agency Fund**

**Revenues, Expenditures and Principal**

**Year Ended June 30, 1964**
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Research and Instructional Gifts and Grants (Continued):
Research Corporation of New York (Continued):
Resources for the Future
Resources for the Future
Retarded Children Education
Rockefeller Foundation, History
Rocky Mountain Forest & Range Experiment Station
School Survey
Smith, Kline and French Foundation:
United States Department of Health, Education and Welfare, VRA 443-T-64
United States National Park Service - Anthropology
United States Public Health Service:
Woodrow Wilson Fund (Fellowships)

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<th>Description</th>
<th>Balance July 1, 1963</th>
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<th>Expenditures</th>
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<th>Balance June 30, 1964</th>
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Total Research and Instructional Gifts and Grants: 523,983.71

Revenues, Expenditures and Principal
Year Ended June 30, 1964

Student, Faculty and Staff Activities:
Air Force:
A.F.R.O.T.C. basic uniforms
A.F.R.O.T.C. flight instructional program
A.F.R.O.T.C. fees
A.F.R.O.T.C. miscellaneous
A.F.R.O.T.C. surplus uniforms sales
American Council of Learned Societies
Anthropology Field School
Art Publications Account - Royalties
Associated Students
Athletic Program Fund

Schedule 7
Continued
<table>
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<th>Student, Faculty and Staff Activities (Continued):</th>
<th>Balance July 1, 1963</th>
<th>Revenues</th>
<th>Expenditures</th>
<th>Transfers To (From)</th>
<th>Balance June 30, 1964</th>
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### Instructions and Conferences:

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<th>Expenditures</th>
<th>Transfers</th>
<th>Balance</th>
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### University of New Mexico

**Agency Fund**

**Revenues, Expenditures and Principal**

*Year Ended June 30, 1964*

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<th>Description</th>
<th>Balance July 1, 1963</th>
<th>Revenues</th>
<th>Expenditures</th>
<th>Transfers To (From)</th>
<th>Balance June 30, 1964</th>
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<td>9,000.00</td>
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<td><strong>Other Agency Accounts:</strong></td>
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<td>Albuquerque Open, Inc.</td>
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<td><strong>Alumni Development Fund:</strong></td>
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<td>Campus Beautification</td>
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<td>2,145.76</td>
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<td>Faculty Research</td>
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<td>Guest Lectures</td>
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<td>Library</td>
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<td>Art Scholarship Fund</td>
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<td>Bernalillo County Medical Society - Library Services</td>
<td>316.93</td>
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<td>4,739.02</td>
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<td>Betty Hall Memorial</td>
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<td></td>
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<td></td>
<td>316.93</td>
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<td>Bids and Bonds - deposit account</td>
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<td>4,250.00</td>
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<td>Concert Hall Fund</td>
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### UNIVERSITY OF NEW MEXICO

**Agency Fund**

**Revenues, Expenditures and Principal**

**Year Ended June 30, 1964**

<table>
<thead>
<tr>
<th>Other Agency Accounts (Continued):</th>
<th>Balance July 1, 1963</th>
<th>Revenues</th>
<th>Expenditures</th>
<th>Transfers To (From)</th>
<th>Balance June 30, 1964</th>
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</thead>
<tbody>
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<td>Degan Estate</td>
<td>$1,031.60</td>
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<td>Dental Clinic - Income</td>
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<td>1,069.50</td>
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<td>625.21</td>
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<td>Dental Clinic Special Account for Peace Corps Trainees</td>
<td>790.00</td>
<td>802.02</td>
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<td>Dry Cleaning Board</td>
<td>404.43</td>
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<td>(404.43)</td>
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<td>Facilities Rental</td>
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<td>5,239.25</td>
<td>5,561.45</td>
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<td>Medical School Library Fund - Miscellaneous</td>
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<td>2,500.00</td>
<td>5,892.91</td>
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<td>(3,392.91)</td>
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<td>New Mexico Scholarship Fund</td>
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<td>22,010.00</td>
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<td>22,010.24</td>
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<td>Physics Equipment Account</td>
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<td>6,000.00</td>
<td>(5,286.41)</td>
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<td>9,255.27</td>
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<td>Science Fair - prizes and scholarships</td>
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<td>2,750.00</td>
<td>1,516.73</td>
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<td>1,661.49</td>
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<td>Spaceport Committee</td>
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<td>563.02</td>
<td>563.02</td>
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<td>Speech and Hearing Clinic</td>
<td>1,154.53</td>
<td>878.00</td>
<td>1,544.03</td>
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<td>488.50</td>
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<tr>
<td>Special T. V. Account</td>
<td>24,267.99</td>
<td>31,758.47</td>
<td>49,403.50</td>
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<td>6,622.96</td>
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<tr>
<td>Television Special Equipment Fund</td>
<td>1,317.36</td>
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<td>1,317.36</td>
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<tr>
<td>University of New Mexico 75th Anniversary Fund</td>
<td>29,999.00</td>
<td>129.90</td>
<td>36,730.55</td>
<td>6,601.65</td>
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<tr>
<td>University Photo Laboratory</td>
<td>(4,500.00)</td>
<td>26,675.33</td>
<td>36,167.80</td>
<td>13,992.47</td>
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<tr>
<td>Unrestricted Gifts</td>
<td>6,366.93</td>
<td>1,325.00</td>
<td>2,692.90</td>
<td></td>
<td>4,999.03</td>
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<tr>
<td><strong>Total Other Agency Accounts</strong></td>
<td><strong>122,619.32</strong></td>
<td><strong>141,940.73</strong></td>
<td><strong>155,996.23</strong></td>
<td>(15,444.82)</td>
<td><strong>93,119.00</strong></td>
</tr>
<tr>
<td><strong>Grand Total (Exhibit B)</strong></td>
<td><strong>$ 765,646.85</strong></td>
<td><strong>6,235,469.53</strong></td>
<td><strong>5,851,987.90</strong></td>
<td>(677,766.55)</td>
<td><strong>471,341.93</strong></td>
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</table>
### UNIVERSITY OF NEW MEXICO

**Intercollegiate Athletics**

**Statement of Income**

**Year Ended June 30, 1964**

With Comparative Figures for 1963

<table>
<thead>
<tr>
<th>Revenues:</th>
<th>1964</th>
<th>1963</th>
<th>Increase (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td>State appropriation</td>
<td>$100,000.00</td>
<td>88,000.00</td>
<td>12,000.00</td>
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<tr>
<td>Sale of tickets, etc:</td>
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<tr>
<td>Football</td>
<td>211,575.99</td>
<td>159,944.94</td>
<td>51,631.05</td>
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<td>Basketball</td>
<td>57,687.03</td>
<td>28,686.04</td>
<td>29,000.00</td>
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<tr>
<td>Student fees</td>
<td>264,100.00</td>
<td>237,460.00</td>
<td>26,640.00</td>
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<tr>
<td>Guarantees:</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Football</td>
<td>36,565.33</td>
<td>41,708.89</td>
<td>(5,143.56)</td>
</tr>
<tr>
<td>Basketball</td>
<td>19,954.44</td>
<td>1,500.00</td>
<td>18,454.44</td>
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<tr>
<td>Gifts and grants</td>
<td>19,030.00</td>
<td>20,872.00</td>
<td>(1,842.00)</td>
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<tr>
<td>Concessions income</td>
<td>6,424.12</td>
<td>8,360.42</td>
<td>(1,936.30)</td>
</tr>
<tr>
<td>Minor sports income</td>
<td>3,426.75</td>
<td>9,975.08</td>
<td>(6,548.33)</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>4,495.00</td>
<td>5,292.25</td>
<td>(797.25)</td>
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<tr>
<td><strong>Total revenues</strong></td>
<td>723,258.66</td>
<td>601,799.62</td>
<td>121,459.04</td>
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</table>

<table>
<thead>
<tr>
<th>Expenditures:</th>
<th>1964</th>
<th>1963</th>
<th>Increase (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General expense:</strong></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Grants-in-aid</td>
<td>192,713.34</td>
<td>181,394.07</td>
<td>11,319.27</td>
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<td>Salaries</td>
<td>152,516.69</td>
<td>136,757.29</td>
<td>15,759.40</td>
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<td>Training table</td>
<td>18,539.06</td>
<td>14,628.66</td>
<td>3,910.40</td>
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<td>Travel</td>
<td>16,115.32</td>
<td>15,283.84</td>
<td>831.48</td>
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<tr>
<td>Miscellaneous</td>
<td>17,915.02</td>
<td>11,303.11</td>
<td>6,611.91</td>
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<tr>
<td>Applied general overhead</td>
<td>15,355.27</td>
<td>15,338.96</td>
<td>16.31</td>
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<tr>
<td>Laundry</td>
<td>14,230.30</td>
<td>10,453.59</td>
<td>3,776.71</td>
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<td>Conference dues</td>
<td>12,700.00</td>
<td>11,955.00</td>
<td>745.00</td>
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<td>Social Security and Retirement</td>
<td>12,371.03</td>
<td>10,901.61</td>
<td>1,469.42</td>
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<tr>
<td>Campus visitation</td>
<td>6,095.29</td>
<td>5,897.31</td>
<td>197.98</td>
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<tr>
<td><strong>Total general expenses</strong></td>
<td>458,551.32</td>
<td>413,913.44</td>
<td>44,637.88</td>
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</table>

<table>
<thead>
<tr>
<th>Football expense:</th>
<th>1964</th>
<th>1963</th>
<th>Increase (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Game guarantees</td>
<td>100,228.66</td>
<td>70,543.98</td>
<td>29,684.68</td>
</tr>
<tr>
<td>Team travel</td>
<td>24,264.77</td>
<td>25,355.32</td>
<td>(1,090.55)</td>
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<tr>
<td>Game expense</td>
<td>22,504.87</td>
<td>16,268.71</td>
<td>6,236.16</td>
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<tr>
<td>Miscellaneous</td>
<td>16,055.89</td>
<td>16,686.58</td>
<td>(630.69)</td>
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<td>Medical expense</td>
<td>14,817.29</td>
<td>13,381.33</td>
<td>1,435.96</td>
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<td><strong>Total football expenses</strong></td>
<td>177,871.48</td>
<td>142,235.92</td>
<td>35,635.56</td>
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</table>

<table>
<thead>
<tr>
<th>Basketball expense:</th>
<th>1964</th>
<th>1963</th>
<th>Increase (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Team travel</td>
<td>20,877.38</td>
<td>11,114.10</td>
<td>9,763.28</td>
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<tr>
<td>Game expense</td>
<td>13,942.86</td>
<td>8,872.94</td>
<td>5,069.92</td>
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<tr>
<td>Miscellaneous</td>
<td>6,767.00</td>
<td>6,619.38</td>
<td>147.62</td>
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<td>Game guarantees</td>
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<td>5,750.00</td>
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<td><strong>Total basketball expenses</strong></td>
<td>46,912.24</td>
<td>32,356.42</td>
<td>14,555.82</td>
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</table>
UNIVERSITY OF NEW MEXICO
Intercollegiate Athletics
Statement of Income
Year Ended June 30, 1964
With Comparative Figures for 1963

<table>
<thead>
<tr>
<th></th>
<th>Year Ended June 30, 1964</th>
<th>Year Ended June 30, 1963</th>
<th>Increase (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minor sports:</td>
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<td>Track</td>
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<td>$ 12,880.58</td>
<td>$ 3,319.86</td>
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<td>Baseball</td>
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<td>Other</td>
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<td>38,689.04</td>
<td>30,206.43</td>
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<td>Total expenditures</td>
<td>722,024.08</td>
<td>618,712.21</td>
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<td>Less expenditures charged to Agency Fund</td>
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<td>24,266.49</td>
<td>4,339.32</td>
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<td>Net expenditures</td>
<td>693,418.27</td>
<td>594,445.72</td>
<td>98,972.55</td>
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<tr>
<td>Net income</td>
<td>$ 29,840.39</td>
<td>$ 7,353.90</td>
<td>$ 22,486.49</td>
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UNIVERSITY OF NEW MEXICO

Dining Halls

Statement of Income

Year Ended June 30, 1964

With Comparative Figures for 1963

<table>
<thead>
<tr>
<th></th>
<th>Hokona Dining Hall</th>
<th>Mesa Vista Dining Hall</th>
<th>Total June 30, 1964</th>
<th>Total June 30, 1963</th>
<th>Increase (Decrease)</th>
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</thead>
<tbody>
<tr>
<td>Income from sales</td>
<td>$635,985.72</td>
<td>302,603.67</td>
<td>938,589.39</td>
<td>804,801.99</td>
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<tr>
<td>Expenditures:</td>
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<tr>
<td>Cost of sales</td>
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<td>154,697.29</td>
<td>464,035.98</td>
<td>393,168.35</td>
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<td>80,566.79</td>
<td>246,222.32</td>
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<td>Operations and</td>
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<td>Maintenance:</td>
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</tr>
<tr>
<td>Depreciation</td>
<td>4,500.00</td>
<td>2,500.00</td>
<td>7,000.00</td>
<td>3,000.00</td>
<td>4,000.00</td>
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<td>320.32</td>
<td>1,110.24</td>
<td>1,397.30</td>
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<tr>
<td>Insurance</td>
<td>154.95</td>
<td>160.31</td>
<td>315.26</td>
<td>289.98</td>
<td>25.28</td>
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<td>Janitorial service</td>
<td>6,168.92</td>
<td>3,888.70</td>
<td>10,057.62</td>
<td>8,291.45</td>
<td>1,766.17</td>
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<tr>
<td>Laundry</td>
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<td>16,173.20</td>
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<td>Repairs and</td>
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<td>12,710.70</td>
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<td>4,417.01</td>
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<tr>
<td>Retirement and</td>
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<td>11,681.72</td>
<td>11,144.66</td>
<td>537.06</td>
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<td>Supplies</td>
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<tr>
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<tr>
<td></td>
<td>74,951.39</td>
<td>33,332.25</td>
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<td>84,312.62</td>
<td>23,971.02</td>
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<tr>
<td>Administrative expense:</td>
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</tr>
<tr>
<td>Applied general overhead</td>
<td>31,799.29</td>
<td>15,130.18</td>
<td>46,929.47</td>
<td>40,192.57</td>
<td>6,736.90</td>
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<tr>
<td>Miscellaneous</td>
<td>2,781.84</td>
<td>1,114.22</td>
<td>3,896.06</td>
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<td>Total expenditures</td>
<td>34,581.13</td>
<td>16,244.40</td>
<td>50,825.53</td>
<td>42,592.37</td>
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<td>Net income before debt service charges</td>
<td>51,458.98</td>
<td>17,762.94</td>
<td>69,221.92</td>
<td>73,872.29</td>
<td>(4,650.33)</td>
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<tr>
<td>Debt service:</td>
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<tr>
<td>Bond interest</td>
<td>8,477.25</td>
<td>15,081.25</td>
<td>23,558.50</td>
<td>24,442.00</td>
<td>(883.50)</td>
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<tr>
<td>Bond principal</td>
<td>7,200.00</td>
<td>19,500.00</td>
<td>26,700.00</td>
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<tr>
<td></td>
<td>15,677.25</td>
<td>34,581.25</td>
<td>50,258.50</td>
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<td>716.50</td>
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<td>Net income (loss)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>after debt service charges</td>
<td>$35,781.73</td>
<td>(16,818.31)</td>
<td>18,963.42</td>
<td>24,330.29</td>
<td>(5,366.80)</td>
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</table>
### UNIVERSITY OF NEW MEXICO
### Residence Halls
### Statement of Income
### Year Ended June 30, 1964
### With Comparative Figures for 1963

<table>
<thead>
<tr>
<th></th>
<th>Hokona Dormitory</th>
<th>Mesa Vista Dormitory</th>
<th>Coronado Dormitory</th>
<th>Onate Dormitory</th>
<th>Santa Clara Dormitory</th>
<th>University of New Mexico Apartments</th>
<th>Total June 30, 1964</th>
<th>Total June 30, 1963</th>
<th>Increase (Decrease)</th>
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</thead>
<tbody>
<tr>
<td><strong>Rental Income</strong></td>
<td>$194,274.71</td>
<td>121,744.82</td>
<td>141,927.31</td>
<td>39,886.56</td>
<td>43,706.98</td>
<td>16,485.05</td>
<td>558,025.43</td>
<td>448,295.86</td>
<td>109,729.57</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Salaries and wages</td>
<td>57,224.81</td>
<td>65,636.90</td>
<td>65,239.55</td>
<td>14,270.37</td>
<td>14,433.54</td>
<td>653.31</td>
<td>175,263.18</td>
<td>125,099.54</td>
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<td>8,200.00</td>
<td>6,000.00</td>
<td>6,000.00</td>
<td>2,000.00</td>
<td>2,000.00</td>
<td>3,000.00</td>
<td>27,200.00</td>
<td>15,900.00</td>
<td>11,300.00</td>
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<td>Insurance</td>
<td>1,576.65</td>
<td>849.03</td>
<td>949.67</td>
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<td>219.09</td>
<td>3,450.40</td>
<td>5,014.01</td>
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<td>578.56</td>
<td>159.12</td>
<td>132.63</td>
<td>3,017.92</td>
<td>1,768.83</td>
<td>1,249.09</td>
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<td>Janitorial service</td>
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<td>1,800.36</td>
<td>439.45</td>
<td>14,168.15</td>
<td>10,759.19</td>
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<td>Laundry</td>
<td>6,464.62</td>
<td>3,300.32</td>
<td>3,146.16</td>
<td>821.00</td>
<td>1,284.19</td>
<td>15,016.29</td>
<td>9,317.33</td>
<td>5,698.76</td>
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<td>Repairs and maintenance</td>
<td>6,450.25</td>
<td>6,231.08</td>
<td>2,631.53</td>
<td>1,934.01</td>
<td>1,732.02</td>
<td>20,586.56</td>
<td>13,481.72</td>
<td>7,026.44</td>
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<tr>
<td>Retirement and social security</td>
<td>3,152.44</td>
<td>2,015.90</td>
<td>1,775.38</td>
<td>477.38</td>
<td>761.45</td>
<td>8,182.75</td>
<td>5,760.25</td>
<td>2,422.30</td>
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<td>Supplies</td>
<td>4,715.09</td>
<td>2,028.68</td>
<td>2,172.69</td>
<td>1,533.72</td>
<td>1,081.07</td>
<td>693.66</td>
<td>12,224.91</td>
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<td>Telephone and telegraph</td>
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<td>2,710.89</td>
<td>3,507.58</td>
<td>1,353.34</td>
<td>1,401.95</td>
<td>12,800.92</td>
<td>9,029.70</td>
<td>3,761.23</td>
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<td>Utilities</td>
<td>43,646.86</td>
<td>49,756.25</td>
<td>16,321.21</td>
<td>5767.00</td>
<td>10,310.32</td>
<td>230,714.19</td>
<td>79,338.89</td>
<td>18,985.39</td>
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<td><strong>Administrative expenses:</strong></td>
<td>$83,386.45</td>
<td>67,392.30</td>
<td>39,216.49</td>
<td>16,181.09</td>
<td>20,509.01</td>
<td>7,087.95</td>
<td>216,674.19</td>
<td>152,972.32</td>
<td>61,726.87</td>
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<td>Applied general overhead</td>
<td>9,713.24</td>
<td>6,053.07</td>
<td>7,072.19</td>
<td>1,982.24</td>
<td>2,185.35</td>
<td>824.25</td>
<td>27,840.34</td>
<td>21,960.79</td>
<td>5,871.55</td>
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<td>Miscellaneous</td>
<td>1,652.98</td>
<td>1,270.01</td>
<td>1,873.62</td>
<td>404.48</td>
<td>428.40</td>
<td>1,699.49</td>
<td>2,921.90</td>
<td>2,507.59</td>
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<tr>
<td><strong>Total Expenditures:</strong></td>
<td>11,166.22</td>
<td>7,333.08</td>
<td>8,945.81</td>
<td>2,386.72</td>
<td>2,613.75</td>
<td>824.25</td>
<td>32,269.83</td>
<td>26,890.49</td>
<td>5,379.34</td>
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<tr>
<td><strong>Net income before debt service charges:</strong></td>
<td>151,277.15</td>
<td>100,362.28</td>
<td>91,401.85</td>
<td>32,839.08</td>
<td>37,561.30</td>
<td>9,265.51</td>
<td>423,207.20</td>
<td>202,817.55</td>
<td>120,389.65</td>
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<td><strong>Debt Service:</strong></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Bond Interest</td>
<td>19,780.25</td>
<td>22,043.00</td>
<td>44,704.00</td>
<td>10,825.42</td>
<td>10,825.42</td>
<td>107,514.09</td>
<td>88,132.00</td>
<td>19,382.09</td>
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<td>Bond principal</td>
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<td>30,000.00</td>
<td>10,000.00</td>
<td>10,000.00</td>
<td>10,000.00</td>
<td>59,300.00</td>
<td>67,700.00</td>
<td>8,400.00</td>
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</tr>
<tr>
<td><strong>Net income (loss) after debt service charges:</strong></td>
<td>5,917.28</td>
<td>(29,160.46)</td>
<td>(23,514.54)</td>
<td>(13,777.04)</td>
<td>(14,679.74)</td>
<td>(7,219.54)</td>
<td>(67,955.86)</td>
<td>(10,353.69)</td>
<td>(57,602.17)</td>
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### UNIVERSITY OF NEW MEXICO

#### University Golf Course

#### Statement of Income

**Year Ended June 30, 1964**

*With Comparative Figures for 1963*

<table>
<thead>
<tr>
<th></th>
<th>Year Ended June 30,</th>
<th>Increase (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1964</td>
<td>1963</td>
</tr>
<tr>
<td><strong>Income:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Green fees</td>
<td>$63,515.85</td>
<td>$63,903.65</td>
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<td>Sales</td>
<td>57,453.75</td>
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<td>Student fees</td>
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<td>Memberships</td>
<td>20,589.75</td>
<td>21,879.00</td>
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<td>Cart rentals</td>
<td>6,451.05</td>
<td>10,169.25</td>
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<tr>
<td>Club rentals and storage</td>
<td>7,792.48</td>
<td>3,574.05</td>
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<td>Miscellaneous</td>
<td>59.40</td>
<td>8.15</td>
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<td><strong>Total income</strong></td>
<td>$182,272.28</td>
<td>$183,153.92</td>
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<td><strong>Expenditures:</strong></td>
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<td></td>
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<tr>
<td>Cost of sales</td>
<td>36,295.54</td>
<td>34,548.94</td>
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<td>Salaries</td>
<td>68,066.54</td>
<td>63,706.83</td>
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<tr>
<td><strong>Operation and maintenance:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salaries</td>
<td>1,816.00</td>
<td>816.00</td>
</tr>
<tr>
<td>Repairs and maintenance</td>
<td>8,748.57</td>
<td>11,162.91</td>
</tr>
<tr>
<td>Retirement and Social Security</td>
<td>4,917.15</td>
<td>4,556.62</td>
</tr>
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<td>Supplies</td>
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<td>Telephone and telegraph</td>
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<td>1,311.72</td>
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<tr>
<td>Utilities</td>
<td>8,542.29</td>
<td>8,285.61</td>
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<tr>
<td><strong>Total expenditures</strong></td>
<td>$26,656.87</td>
<td>$28,616.88</td>
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<tr>
<td><strong>Administrative expense:</strong></td>
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<td></td>
</tr>
<tr>
<td>Applied general overhead</td>
<td>9,113.61</td>
<td>9,157.70</td>
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<tr>
<td>Other</td>
<td>8,050.93</td>
<td>5,353.51</td>
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<td><strong>Total expenditures</strong></td>
<td>$148,183.49</td>
<td>$141,383.86</td>
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<tr>
<td><strong>Net income before debt</strong></td>
<td>$34,088.79</td>
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<tr>
<td><strong>Debt Service:</strong></td>
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<td></td>
</tr>
<tr>
<td>Bond interest</td>
<td>3,060.00</td>
<td>3,270.00</td>
</tr>
<tr>
<td>Bond principal</td>
<td>7,000.00</td>
<td>7,000.00</td>
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<tr>
<td><strong>Net income after debt</strong></td>
<td>$24,028.79</td>
<td>$31,500.06</td>
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UNIVERSITY OF NEW MEXICO

Heating Plant

Statement of Income

Year Ended June 30, 1964
With Comparative Figures for 1963

<table>
<thead>
<tr>
<th>Income</th>
<th>Year Ended June 30, 1964</th>
<th>Increase (Decrease)</th>
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</thead>
<tbody>
<tr>
<td>$381,324.93</td>
<td>358,441.34</td>
<td>22,883.59</td>
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Expenditures:

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<th>1963</th>
<th>Increase (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salaries and wages</td>
<td>47,488.92</td>
<td>35,797.39</td>
<td>11,691.53</td>
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<tr>
<td>Operation and maintenance:</td>
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<td></td>
<td></td>
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<tr>
<td>Fuel</td>
<td>97,641.59</td>
<td>78,212.94</td>
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<tr>
<td>Insurance</td>
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<td>824.96</td>
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<tr>
<td>Group insurance</td>
<td>245.38</td>
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<td>245.38</td>
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<td>Repairs and maintenance</td>
<td>10,363.60</td>
<td>14,753.81</td>
<td>(4,390.21)</td>
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<tr>
<td>Retirement and social security</td>
<td>3,141.01</td>
<td>1,332.01</td>
<td>1,809.00</td>
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<td>Supplies</td>
<td>1,703.96</td>
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<td>1,402.62</td>
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<td>Utilities</td>
<td>207,121.15</td>
<td>167,592.00</td>
<td>39,529.15</td>
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<tr>
<td>Total expenditures</td>
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<td>263,365.11</td>
<td>58,849.55</td>
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Administrative expense:

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<th>1963</th>
<th>Increase (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied general overhead</td>
<td>19,566.25</td>
<td>17,922.07</td>
<td>1,644.18</td>
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<td>Miscellaneous</td>
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<td>Total administrative expense</td>
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Capital outlay

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<th>1963</th>
<th>Increase (Decrease)</th>
</tr>
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<tbody>
<tr>
<td>Total expenditures</td>
<td>389,279.81</td>
<td>325,721.39</td>
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</table>

Net income (loss) before debt service charges

<table>
<thead>
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<th>Category</th>
<th>1964</th>
<th>1963</th>
<th>Increase (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(7,954.88)</td>
<td>32,719.95</td>
<td>(40,674.83)</td>
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Debt Service:

<table>
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<tr>
<th>Category</th>
<th>1964</th>
<th>1963</th>
<th>Increase (Decrease)</th>
</tr>
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<tbody>
<tr>
<td>Bond interest</td>
<td>7,831.00</td>
<td>8,197.87</td>
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<tr>
<td>Bond principal</td>
<td>10,125.00</td>
<td>9,450.00</td>
<td>675.00</td>
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<td>Total debt service</td>
<td>17,956.00</td>
<td>17,647.87</td>
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Net income (loss) after debt service charges

<table>
<thead>
<tr>
<th>Category</th>
<th>1964</th>
<th>1963</th>
<th>Increase (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td>$25,910.88</td>
<td>15,072.08</td>
<td>(40,982.96)</td>
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UNIVERSITY OF NEW MEXICO

Printing Plant

Statement of Income

Year Ended June 30, 1964
With Comparative Figures for 1963

<table>
<thead>
<tr>
<th></th>
<th>Year Ended June 30, 1964</th>
<th>Year Ended June 30, 1963</th>
<th>Increase (Decrease)</th>
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</thead>
<tbody>
<tr>
<td>Income from sales</td>
<td>$324,850.59</td>
<td>261,356.88</td>
<td>63,493.71</td>
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<td>Cost of sales:</td>
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<td>Computed cost of sales</td>
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<td>253,805.28</td>
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<td>Less overabsorbed overhead (Schedule 16)</td>
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<td>Total cost of sales</td>
<td>296,135.44</td>
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<tr>
<td>Net income before debt service charges</td>
<td>28,715.15</td>
<td>26,110.67</td>
<td>2,604.48</td>
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<tr>
<td>Debt Service:</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Bond interest</td>
<td>4,060.00</td>
<td>4,250.75</td>
<td>(190.75)</td>
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<td>Bond principal</td>
<td>5,250.00</td>
<td>4,900.00</td>
<td>350.00</td>
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<tr>
<td></td>
<td>9,310.00</td>
<td>9,150.75</td>
<td>159.25</td>
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<tr>
<td>Net income (loss) after debt service charges</td>
<td>$19,405.15</td>
<td>$16,959.92</td>
<td>2,445.23</td>
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</table>

Schedule 13
UNIVERSITY OF NEW MEXICO

Printing Plant

Statement of Underabsorbed Overhead

Year Ended June 30, 1964
With Comparative Figures for 1963

<table>
<thead>
<tr>
<th>Description</th>
<th>1964</th>
<th>1963</th>
<th>Increase/Decrease</th>
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<tr>
<td>Direct Labor</td>
<td>$151,053.58</td>
<td>127,853.91</td>
<td>23,199.67</td>
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<tr>
<td>Depreciation</td>
<td>7,000.00</td>
<td>3,000.00</td>
<td>4,000.00</td>
</tr>
<tr>
<td>Insurance</td>
<td>1,187.26</td>
<td>626.06</td>
<td>561.20</td>
</tr>
<tr>
<td>Miscellaneous factory expense</td>
<td>5,424.07</td>
<td>6,304.24</td>
<td>(880.17)</td>
</tr>
<tr>
<td>Plant supplies</td>
<td>14,177.64</td>
<td>12,249.50</td>
<td>1,928.14</td>
</tr>
<tr>
<td>Repairs and maintenance</td>
<td>9,974.63</td>
<td>14,881.93</td>
<td>(4,907.30)</td>
</tr>
<tr>
<td>Utilities</td>
<td>3,711.10</td>
<td>2,622.10</td>
<td>1,089.00</td>
</tr>
<tr>
<td><strong>Grand Total Direct Labor</strong></td>
<td><strong>41,474.70</strong></td>
<td><strong>39,683.83</strong></td>
<td><strong>1,790.87</strong></td>
</tr>
<tr>
<td>Administrative and General Expenses:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Applied general overhead</td>
<td>16,242.53</td>
<td>13,067.84</td>
<td>3,174.69</td>
</tr>
<tr>
<td>Group insurance</td>
<td>868.63</td>
<td>683.83</td>
<td>184.80</td>
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<tr>
<td>Miscellaneous administrative expense</td>
<td>285.64</td>
<td>106.32</td>
<td>179.32</td>
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<tr>
<td>Office salaries</td>
<td>11,093.22</td>
<td>10,644.00</td>
<td>449.22</td>
</tr>
<tr>
<td>Office supplies</td>
<td>179.99</td>
<td>65.16</td>
<td>114.83</td>
</tr>
<tr>
<td>Retirement and Social Security</td>
<td>11,400.92</td>
<td>8,801.45</td>
<td>2,599.47</td>
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<tr>
<td>Telephone and telegraph</td>
<td>203.87</td>
<td>128.39</td>
<td>75.48</td>
</tr>
<tr>
<td><strong>Grand Total Administrative Expenses</strong></td>
<td><strong>40,274.80</strong></td>
<td><strong>33,496.39</strong></td>
<td><strong>6,778.41</strong></td>
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<tr>
<td>Less printing plant overhead applied to job costs</td>
<td>252,257.65</td>
<td>219,593.80</td>
<td>32,663.85</td>
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</table>

Overabsorbed overhead
(Schedule 15)

<table>
<thead>
<tr>
<th>Description</th>
<th>1964</th>
<th>1963</th>
<th>Increase/Decrease</th>
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<tbody>
<tr>
<td>Overabsorbed overhead</td>
<td><strong>$19,454.57</strong></td>
<td><strong>18,559.07</strong></td>
<td><strong>(895.50)</strong></td>
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UNIVERSITY OF NEW MEXICO

Associated Students Bookstore

Statement of Income

Year Ended June 30, 1964
With Comparative Figures for 1963

<table>
<thead>
<tr>
<th></th>
<th>Year Ended June 30,</th>
<th>Increase (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1964</td>
<td>1963</td>
</tr>
<tr>
<td>Revenues:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sales</td>
<td>$797,009.93</td>
<td>689,766.85</td>
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<tr>
<td>Other income</td>
<td>2,945.06</td>
<td>2,182.96</td>
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<tr>
<td>Total revenues</td>
<td>799,954.99</td>
<td>691,949.81</td>
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<tr>
<td>Expenditures:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cost of sales</td>
<td>597,229.19</td>
<td>508,069.88</td>
</tr>
<tr>
<td>Salaries and wages</td>
<td>61,868.14</td>
<td>54,690.98</td>
</tr>
<tr>
<td>Operation and maintenance:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advertising</td>
<td>2,430.32</td>
<td>2,337.98</td>
</tr>
<tr>
<td>Bad debts</td>
<td>292.95</td>
<td>1,654.27</td>
</tr>
<tr>
<td>Retirement, social security and insurance</td>
<td>3,025.63</td>
<td>2,674.81</td>
</tr>
<tr>
<td>Freight</td>
<td>18,544.78</td>
<td>15,725.68</td>
</tr>
<tr>
<td>Supplies and miscellaneous</td>
<td>6,301.44</td>
<td>3,623.74</td>
</tr>
<tr>
<td>Telephone and telegraph</td>
<td>312.37</td>
<td>325.17</td>
</tr>
<tr>
<td>Administrative and occupancy expenses</td>
<td>38,882.98</td>
<td>33,657.42</td>
</tr>
<tr>
<td>Total expenditures</td>
<td>728,887.80</td>
<td>622,759.93</td>
</tr>
<tr>
<td>Net income available for debt service</td>
<td>$71,067.19</td>
<td>69,189.88</td>
</tr>
</tbody>
</table>
UNIVERSITY OF NEW MEXICO

New Mexico Union

Statement of Income

Year Ended June 30, 1964
With Comparative Figures for 1963

<table>
<thead>
<tr>
<th></th>
<th>Year Ended June 30, 1964</th>
<th>Increase (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1964</td>
<td>1963</td>
</tr>
<tr>
<td><strong>Revenues:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sales</td>
<td>$450,228.60</td>
<td>389,401.77</td>
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<tr>
<td>Student fees</td>
<td>6,411.19</td>
<td>6,103.57</td>
</tr>
<tr>
<td>Bowling, billiards and table tennis</td>
<td>52,319.06</td>
<td>46,286.65</td>
</tr>
<tr>
<td>Rentals</td>
<td>31,785.91</td>
<td>28,885.96</td>
</tr>
<tr>
<td>Other</td>
<td>6,864.73</td>
<td>4,815.65</td>
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<tr>
<td><strong>Total pledged income</strong></td>
<td>547,609.49</td>
<td>475,493.60</td>
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<tr>
<td>Student fees available for operating loss</td>
<td>59,422.50</td>
<td>53,428.50</td>
</tr>
<tr>
<td><strong>Total revenues</strong></td>
<td>607,031.99</td>
<td>528,922.10</td>
</tr>
<tr>
<td><strong>Expenditures:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cost of sales</td>
<td>211,831.66</td>
<td>188,389.60</td>
</tr>
<tr>
<td>Bowling alley rental</td>
<td>11,200.00</td>
<td>11,200.00</td>
</tr>
<tr>
<td>Salaries and wages</td>
<td>199,218.25</td>
<td>181,772.42</td>
</tr>
<tr>
<td><strong>Operation and maintenance:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bowling pins replaced</td>
<td>1,661.93</td>
<td>1,483.82</td>
</tr>
<tr>
<td>Employees' meals</td>
<td>6,431.54</td>
<td>6,242.03</td>
</tr>
<tr>
<td>Retirement, social security and insurance</td>
<td>8,010.44</td>
<td>7,245.60</td>
</tr>
<tr>
<td>Laundry</td>
<td>10,110.25</td>
<td>8,950.35</td>
</tr>
<tr>
<td>Supplies and miscellaneous</td>
<td>29,108.05</td>
<td>19,356.96</td>
</tr>
<tr>
<td>Repairs and maintenance</td>
<td>4,823.33</td>
<td>4,857.66</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>60,145.54</td>
<td>48,136.42</td>
</tr>
<tr>
<td><strong>Administrative and occupancy expenses:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Building maintenance</td>
<td>124,447.69</td>
<td>114,377.94</td>
</tr>
<tr>
<td>Administrative office</td>
<td>43,132.43</td>
<td>40,017.81</td>
</tr>
<tr>
<td>General expense</td>
<td>10,391.43</td>
<td>9,240.47</td>
</tr>
<tr>
<td><strong>Allocated to bookstore</strong></td>
<td>177,971.55</td>
<td>163,636.22</td>
</tr>
<tr>
<td><strong>Provision for capital outlay</strong></td>
<td>38,882.98</td>
<td>33,657.42</td>
</tr>
<tr>
<td><strong>Total expenditures</strong></td>
<td>631,484.02</td>
<td>564,577.24</td>
</tr>
<tr>
<td><strong>Net income (loss)</strong></td>
<td>$(24,452.03)</td>
<td>$(35,555.14)</td>
</tr>
</tbody>
</table>
Statement of Income

Year Ended June 30, 1964
With Comparative figures for 1963

<table>
<thead>
<tr>
<th>Item</th>
<th>1964</th>
<th>1963</th>
<th>Increase (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales of Publications</td>
<td>$68,350.03</td>
<td>$62,895.68</td>
<td>$5,454.35</td>
</tr>
<tr>
<td>Cost of Goods Sold (including royalties of $5,000.99)</td>
<td>$40,963.68</td>
<td>$39,196.87</td>
<td>$1,766.81</td>
</tr>
<tr>
<td>Market Decline in Inventory</td>
<td>$14,650.22</td>
<td>$11,091.98</td>
<td>$3,558.24</td>
</tr>
<tr>
<td></td>
<td>$55,613.90</td>
<td>$50,288.85</td>
<td>$5,325.05</td>
</tr>
<tr>
<td>Gross profit</td>
<td>$12,736.13</td>
<td>$12,606.83</td>
<td>$129.30</td>
</tr>
<tr>
<td>Publishing and Selling Expenses:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advertising</td>
<td>$3,628.87</td>
<td>$5,110.24</td>
<td>($1,481.37)</td>
</tr>
<tr>
<td>Applied general overhead</td>
<td>$3,417.50</td>
<td>$3,144.78</td>
<td>$272.72</td>
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<tr>
<td>Commissions</td>
<td>$1,820.44</td>
<td>$1,718.78</td>
<td>$101.66</td>
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<tr>
<td>Depreciation</td>
<td>$188.00</td>
<td>$188.00</td>
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<tr>
<td>Manuscript reading</td>
<td>$504.55</td>
<td>$380.46</td>
<td>$124.09</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>$97.60</td>
<td>$124.04</td>
<td>($26.44)</td>
</tr>
<tr>
<td>Retirement and social security</td>
<td>$2,399.18</td>
<td>$2,225.02</td>
<td>$174.16</td>
</tr>
<tr>
<td>Salaries</td>
<td>$44,499.37</td>
<td>$40,930.68</td>
<td>$3,568.69</td>
</tr>
<tr>
<td>Supplies and postage</td>
<td>$3,512.86</td>
<td>$2,752.17</td>
<td>$760.69</td>
</tr>
<tr>
<td>Telephone and telegraph</td>
<td>$40.88</td>
<td>$96.45</td>
<td>($55.57)</td>
</tr>
<tr>
<td>Travel</td>
<td>$265.90</td>
<td>$35.36</td>
<td>$230.54</td>
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<tr>
<td></td>
<td>$60,375.15</td>
<td>$56,705.98</td>
<td>$3,669.17</td>
</tr>
<tr>
<td>Net income (loss)</td>
<td>$47,639.02</td>
<td>($44,099.15)</td>
<td>($3,539.87)</td>
</tr>
</tbody>
</table>
### UNIVERSITY OF NEW MEXICO

#### Statement of Educational and General Expenditures

Per Student Credit Hour

Year Ended June 30, 1964

<table>
<thead>
<tr>
<th>Department</th>
<th>Expenditures</th>
<th>Hours</th>
<th>Cost Per Student Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Direct Instruction:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>College of Arts and Sciences:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anthropology</td>
<td>$99,511.42</td>
<td>7,945</td>
<td>12.53</td>
</tr>
<tr>
<td>Biology</td>
<td>196,583.39</td>
<td>13,533</td>
<td>14.53</td>
</tr>
<tr>
<td>Chemistry</td>
<td>152,291.08</td>
<td>8,809</td>
<td>17.29</td>
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<tr>
<td>Economics</td>
<td>72,524.70</td>
<td>5,346</td>
<td>13.57</td>
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<tr>
<td>English</td>
<td>280,157.58</td>
<td>24,751</td>
<td>11.31</td>
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<tr>
<td>Geography</td>
<td>24,410.27</td>
<td>2,833</td>
<td>8.62</td>
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<tr>
<td>Geology</td>
<td>108,795.74</td>
<td>5,470</td>
<td>19.89</td>
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<tr>
<td>Government</td>
<td>60,259.10</td>
<td>5,061</td>
<td>11.91</td>
</tr>
<tr>
<td>History</td>
<td>146,822.13</td>
<td>13,666</td>
<td>10.74</td>
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<td>Journalism</td>
<td>21,734.64</td>
<td>648</td>
<td>33.54</td>
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<tr>
<td>Mathematics and astronomy</td>
<td>195,044.99</td>
<td>16,034</td>
<td>12.16</td>
</tr>
<tr>
<td>Modern languages</td>
<td>197,194.05</td>
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<td>13.68</td>
</tr>
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<td>Philosophy</td>
<td>46,863.23</td>
<td>3,243</td>
<td>14.45</td>
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<tr>
<td>Physics</td>
<td>131,330.93</td>
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<td>23.90</td>
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<tr>
<td>Psychology</td>
<td>82,818.74</td>
<td>9,113</td>
<td>9.09</td>
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<td>Sociology</td>
<td>31,067.99</td>
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<td>8.07</td>
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<td>Speech</td>
<td>72,106.55</td>
<td>3,477</td>
<td>20.74</td>
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<td>Administrative office</td>
<td>37,583.59</td>
<td>143,693</td>
<td>13.36</td>
</tr>
<tr>
<td>Division of foreign studies</td>
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<td>143,693</td>
<td>0.07</td>
</tr>
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<td><strong>Total College of Arts and Sciences</strong></td>
<td>1,966,721.92</td>
<td>143,693</td>
<td>13.69</td>
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<tr>
<td>College of Business Administration</td>
<td>122,167.19</td>
<td>9,007</td>
<td>13.56</td>
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<tr>
<td>College of Education:</td>
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<tr>
<td>Art education</td>
<td>20,252.78</td>
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<td>Elementary education</td>
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<td>Health, physical education and recreation</td>
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<td>8,889</td>
<td>18.85</td>
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<tr>
<td>Educational and administrative services</td>
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<td>19.94</td>
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<td>Secondary education</td>
<td>91,668.62</td>
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<td>21.59</td>
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<td>458,096.20</td>
<td>23,510</td>
<td>19.49</td>
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<tr>
<td><strong>Total College of Education</strong></td>
<td>508,799.79</td>
<td>23,510</td>
<td>21.64</td>
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<tr>
<td>College of Engineering:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemical and nuclear</td>
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<tr>
<td>Civil</td>
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<td>Electrical</td>
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<td>Mechanical</td>
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<td>41.39</td>
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<td>Administrative office</td>
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<td>14,301</td>
<td>32.23</td>
</tr>
<tr>
<td><strong>Total College of Engineering</strong></td>
<td>492,925.99</td>
<td>14,301</td>
<td>34.47</td>
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</table>
UNIVERSITY OF NEW MEXICO

Statement of Educational and General Expenditures
Per Student Credit Hour

<table>
<thead>
<tr>
<th>Expenditures</th>
<th>Student Credit Hours</th>
<th>Cost Per Student Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct Instruction (Continued):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>College of Fine Arts:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Architecture</td>
<td>$39,524.09</td>
<td>1,494</td>
</tr>
<tr>
<td>Art</td>
<td>119,871.30</td>
<td>6,849</td>
</tr>
<tr>
<td>Drama</td>
<td>42,759.09</td>
<td>1,558</td>
</tr>
<tr>
<td>Music</td>
<td>163,306.43</td>
<td>4,223</td>
</tr>
<tr>
<td>Administrative office</td>
<td>365,460.91</td>
<td>14,124</td>
</tr>
<tr>
<td>Art Gallery</td>
<td>24,578.17</td>
<td>14,124</td>
</tr>
<tr>
<td>Total College of Fine Arts</td>
<td>410,496.36</td>
<td>14,124</td>
</tr>
<tr>
<td>College of Law</td>
<td>103,790.76</td>
<td>2,185</td>
</tr>
<tr>
<td>College of Nursing</td>
<td>83,515.90</td>
<td>1,328</td>
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<tr>
<td>College of Pharmacy</td>
<td>64,646.30</td>
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</tr>
<tr>
<td>Dental Hygiene</td>
<td>26,197.23</td>
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</tr>
<tr>
<td>Medical School</td>
<td>185,072.70</td>
<td></td>
</tr>
<tr>
<td>Summer and field sessions</td>
<td>194,484.30</td>
<td>17,853</td>
</tr>
<tr>
<td>Air Reserve Officers Training Corps</td>
<td>8,903.05</td>
<td>606</td>
</tr>
<tr>
<td>Naval Reserve Officers Training Corps</td>
<td>4,531.24</td>
<td>885</td>
</tr>
<tr>
<td>Total direct instruction</td>
<td>4,172,252.73</td>
<td>229,139</td>
</tr>
<tr>
<td>Indirect Instruction Expense:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Academic vice-president</td>
<td>43,290.16</td>
<td>229,139</td>
</tr>
<tr>
<td>Band clinic</td>
<td>4,901.89</td>
<td>229,139</td>
</tr>
<tr>
<td>Miscellaneous instruction</td>
<td>120,815.35</td>
<td>229,139</td>
</tr>
<tr>
<td>Graduate school</td>
<td>49,504.60</td>
<td>229,139</td>
</tr>
<tr>
<td>Sandia Technical Development Program</td>
<td>19,844.78</td>
<td>229,139</td>
</tr>
<tr>
<td>General honors program</td>
<td>3,500.04</td>
<td>229,139</td>
</tr>
<tr>
<td>Intramurals and extramurals</td>
<td>30,195.07</td>
<td>229,139</td>
</tr>
<tr>
<td>Television classes</td>
<td>2,000.00</td>
<td>229,139</td>
</tr>
<tr>
<td>Student employment and participation</td>
<td>96,462.91</td>
<td>229,139</td>
</tr>
<tr>
<td>Social security taxes, retirement and group insurance</td>
<td>362,762.56</td>
<td>229,139</td>
</tr>
<tr>
<td>University College, administrative office</td>
<td>28,938.02</td>
<td>229,139</td>
</tr>
<tr>
<td>Total indirect administrative office</td>
<td>762,215.38</td>
<td>229,139</td>
</tr>
<tr>
<td>Total instructional expenses</td>
<td>4,934,468.11</td>
<td>229,139</td>
</tr>
<tr>
<td>Off-Campus Instruction:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Los Alamos instructional program</td>
<td>82,130.41</td>
<td>1,882</td>
</tr>
<tr>
<td>Correspondence salaries</td>
<td>11,980.56</td>
<td>892</td>
</tr>
<tr>
<td>Holloman instructional program</td>
<td>48,188.92</td>
<td>531</td>
</tr>
<tr>
<td>Gallup Center</td>
<td>8,294.00</td>
<td>424</td>
</tr>
<tr>
<td>Extension class salaries</td>
<td>6,960.00</td>
<td>1,005</td>
</tr>
<tr>
<td>Total</td>
<td>157,553.89</td>
<td>4,734</td>
</tr>
</tbody>
</table>
Statement of Educational and General Expenditures
Per Student Credit Hour

<table>
<thead>
<tr>
<th>Expenditures</th>
<th>Student Credit Hours</th>
<th>Cost Per Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative office</td>
<td>$48,496.62</td>
<td>4,734</td>
</tr>
<tr>
<td>Community evening college salaries</td>
<td>$25,295.85</td>
<td>4,734</td>
</tr>
<tr>
<td>Harwood Foundation</td>
<td>$6,475.84</td>
<td>4,734</td>
</tr>
<tr>
<td><strong>Total off-campus instruction</strong></td>
<td><strong>$237,822.20</strong></td>
<td><strong>4,734</strong></td>
</tr>
<tr>
<td><strong>Total instructional and off-campus instruction</strong></td>
<td><strong>$5,172,290.31</strong></td>
<td><strong>233,873</strong></td>
</tr>
<tr>
<td>Administration and general</td>
<td>$1,003,955.33</td>
<td>233,873</td>
</tr>
<tr>
<td>Libraries</td>
<td>$514,290.25</td>
<td>233,873</td>
</tr>
<tr>
<td>Operation and maintenance of physical plant</td>
<td>$1,164,116.49</td>
<td>233,873</td>
</tr>
<tr>
<td><strong>Total other expenditures</strong></td>
<td><strong>$2,682,362.07</strong></td>
<td><strong>233,873</strong></td>
</tr>
<tr>
<td><strong>Total educational and general</strong></td>
<td><strong>$7,854,652.38</strong></td>
<td><strong>233,873</strong></td>
</tr>
</tbody>
</table>
## Comparative Statement of Revenues and Expenditures

### Ten Years Ended June 30, 1964

<table>
<thead>
<tr>
<th>Year</th>
<th>Revenues</th>
<th>Expenditures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Educational and general</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Administration and general, net</td>
<td>$1,003,955</td>
</tr>
<tr>
<td></td>
<td>Instruction</td>
<td>$4,934,466</td>
</tr>
<tr>
<td></td>
<td>Instructional research</td>
<td>$227,822</td>
</tr>
<tr>
<td></td>
<td>Libraries</td>
<td>$314,290</td>
</tr>
<tr>
<td></td>
<td>Physical plant operation</td>
<td>$1,104,117</td>
</tr>
<tr>
<td></td>
<td>Organized activities relating to instruction</td>
<td>$7,954,052</td>
</tr>
<tr>
<td></td>
<td>Noneducational</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Scholarships</td>
<td>$505,342</td>
</tr>
<tr>
<td></td>
<td>Bond principal and interest</td>
<td>$1,111,917</td>
</tr>
<tr>
<td></td>
<td>Bond reserve requirements</td>
<td>$153,300</td>
</tr>
<tr>
<td></td>
<td>Rent</td>
<td>$33,793</td>
</tr>
<tr>
<td></td>
<td>Western Regional and Dental Programs</td>
<td>$162,500</td>
</tr>
<tr>
<td></td>
<td>Auxiliary enterprises</td>
<td>$1,057,693</td>
</tr>
<tr>
<td></td>
<td>Noninstructional research and organized activities</td>
<td>$3,024,800</td>
</tr>
<tr>
<td></td>
<td>Sponsored research and organized activities</td>
<td>$17,355,958</td>
</tr>
</tbody>
</table>

### Educational and general:

<table>
<thead>
<tr>
<th>Year</th>
<th>Revenues</th>
<th>Expenditures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Student fees</td>
<td>$1,545,705</td>
</tr>
<tr>
<td></td>
<td>Land and Permanent Fund, income unpledged</td>
<td>$260,020</td>
</tr>
<tr>
<td></td>
<td>Sales, services and miscellaneous income</td>
<td>$445,598</td>
</tr>
<tr>
<td></td>
<td>Organized activities relating to instruction</td>
<td>$7,816,303</td>
</tr>
<tr>
<td></td>
<td>Noneducational:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Student fees, pledged</td>
<td>$872,200</td>
</tr>
<tr>
<td></td>
<td>Land and Permanent Fund, income pledged</td>
<td>$174,000</td>
</tr>
<tr>
<td></td>
<td>Western Regional and Dental Programs appropriations</td>
<td>$150,000</td>
</tr>
<tr>
<td></td>
<td>Auxiliary enterprises</td>
<td>$3,924,100</td>
</tr>
<tr>
<td></td>
<td>Noninstructional research and organized activities</td>
<td>$490,189</td>
</tr>
<tr>
<td></td>
<td>Sponsored research and organized activities</td>
<td>$3,045,800</td>
</tr>
</tbody>
</table>

### Expenditures:

<table>
<thead>
<tr>
<th>Year</th>
<th>Revenues</th>
<th>Expenditures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Administration and general, net</td>
<td>$1,003,955</td>
</tr>
<tr>
<td></td>
<td>Instruction</td>
<td>$4,934,466</td>
</tr>
<tr>
<td></td>
<td>Instructional research</td>
<td>$227,822</td>
</tr>
<tr>
<td></td>
<td>Libraries</td>
<td>$314,290</td>
</tr>
<tr>
<td></td>
<td>Physical plant operation</td>
<td>$1,104,117</td>
</tr>
<tr>
<td></td>
<td>Organized activities relating to instruction</td>
<td>$7,954,052</td>
</tr>
<tr>
<td></td>
<td>Noneducational</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Scholarships</td>
<td>$505,342</td>
</tr>
<tr>
<td></td>
<td>Bond principal and interest</td>
<td>$1,111,917</td>
</tr>
<tr>
<td></td>
<td>Bond reserve requirements</td>
<td>$153,300</td>
</tr>
<tr>
<td></td>
<td>Rent</td>
<td>$33,793</td>
</tr>
<tr>
<td></td>
<td>Western Regional and Dental Programs</td>
<td>$162,500</td>
</tr>
<tr>
<td></td>
<td>Auxiliary enterprises</td>
<td>$1,057,693</td>
</tr>
<tr>
<td></td>
<td>Noninstructional research and organized activities</td>
<td>$3,024,800</td>
</tr>
<tr>
<td></td>
<td>Sponsored research and organized activities</td>
<td>$17,355,958</td>
</tr>
</tbody>
</table>
UNIVERSITY OF NEW MEXICO

1948 General Building Bonds "System"

Statement of Income

Year Ended June 30, 1964

<table>
<thead>
<tr>
<th>Income:</th>
<th>Total</th>
<th>Mesa Vista</th>
<th>Dormitory</th>
<th>Dining Hall</th>
<th>Printing Plant</th>
<th>Heating Plant</th>
<th>Library and Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales</td>
<td>$1,008,779.19</td>
<td>302,603.67</td>
<td>121,744.82</td>
<td>324,850.59</td>
<td>381,324.93</td>
<td>160,000.00</td>
<td></td>
</tr>
<tr>
<td>Rents</td>
<td>121,744.82</td>
<td>121,744.82</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student fees</td>
<td>160,000.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1,290,524.01</strong></td>
<td><strong>121,744.82</strong></td>
<td><strong>302,603.67</strong></td>
<td><strong>324,850.59</strong></td>
<td><strong>381,324.93</strong></td>
<td><strong>160,000.00</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Expenditures:</th>
<th>Total</th>
<th>Mesa Vista</th>
<th>Dormitory</th>
<th>Dining Hall</th>
<th>Printing Plant</th>
<th>Heating Plant</th>
<th>Library and Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost of sales</td>
<td>470,287.30</td>
<td>154,697.29</td>
<td></td>
<td>315,590.01</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salaries and wages</td>
<td>324,746.19</td>
<td>45,636.90</td>
<td>80,566.79</td>
<td>151,053.58</td>
<td>47,488.92</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operation and maintenance</td>
<td>444,413.91</td>
<td>47,392.30</td>
<td>33,332.25</td>
<td>41,474.70</td>
<td>322,214.66</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administrative expense</td>
<td>83,428.51</td>
<td>7,333.08</td>
<td>16,244.40</td>
<td>40,274.80</td>
<td>19,576.23</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Printing plant overhead applied to job costs</td>
<td>(252,257.65)</td>
<td>(252,257.65)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1,070,618.26</strong></td>
<td><strong>100,362.28</strong></td>
<td><strong>284,840.73</strong></td>
<td><strong>296,135.44</strong></td>
<td><strong>389,279.81</strong></td>
<td><strong>160,000.00</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Net income (loss) before debt service charges**

<table>
<thead>
<tr>
<th>Debt Service:</th>
<th>Total</th>
<th>Mesa Vista</th>
<th>Dormitory</th>
<th>Dining Hall</th>
<th>Printing Plant</th>
<th>Heating Plant</th>
<th>Library and Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bond interest</td>
<td>58,006.25</td>
<td>22,043.00</td>
<td>15,081.25</td>
<td>4,060.00</td>
<td>7,831.00</td>
<td>8,991.00</td>
<td></td>
</tr>
<tr>
<td>Bond principal</td>
<td>75,000.00</td>
<td>28,500.00</td>
<td>19,500.00</td>
<td>5,250.00</td>
<td>10,125.00</td>
<td>11,625.00</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>133,006.25</strong></td>
<td><strong>50,543.00</strong></td>
<td><strong>34,581.25</strong></td>
<td><strong>9,310.00</strong></td>
<td><strong>17,956.00</strong></td>
<td><strong>20,616.00</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Net income (loss) after debt service charges**

| Contingencies Fund, July 1, 1963 | 250,000.00 |
| Net Income Used for Other Corporate Purposes | 86,899.50 |
| Contingencies Fund, June 30, 1964 | $250,000.00 |
UNIVERSITY OF NEW MEXICO

Recreational Center Improvement Revenue Bond System

Statement of Income

Year Ended June 30, 1964

Income:
Sales
Fees, memberships and other income
Student fees pledged

Expenditures:
Cost of sales
Salaries
Operation and maintenance
Administrative expense

Net income before debt service

Debt Service:
Bond interest
Bond principal

Net income after debt service

Reserve Fund, July 1, 1963
Funds Used for Other Lawful Purposes
Reserve Fund, June 30, 1964
UNIVERSITY OF NEW MEXICO

Building Bonds, Series of 1952 "System"

Statement of Income

Year Ended December 31, 1963

Income:
- Student fees pledged to the system $50,000.00
- Rents received:
  - Custodial services $10,950.00
  - Maintenance 3,493.00
  - Utilities 18,999.00
- Net income before debt service

Total Operating Expenses:
- Bond interest 27,324.00
- Bond principal 24,000.00
- Net income after debt service

Reserve Fund, January 1, 1963
- Funds Used for Other Corporate Purposes
- Reserve Fund, December 31, 1963
UNIVERSITY OF NEW MEXICO

1955 General Building Bonds "System"

Statement of Income

Year Ended June 30, 1964

<table>
<thead>
<tr>
<th>Income:</th>
<th>Total</th>
<th>Dormitory</th>
<th>Dining Hall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales</td>
<td>$635,985.72</td>
<td>194,274.71</td>
<td>635,985.72</td>
</tr>
<tr>
<td>Rents</td>
<td>194,274.71</td>
<td>194,274.71</td>
<td>635,985.72</td>
</tr>
<tr>
<td></td>
<td>830,260.43</td>
<td>389,549.42</td>
<td>1,225,835.24</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Expenditures:</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost of sales</td>
<td>309,338.69</td>
<td>309,338.69</td>
<td></td>
</tr>
<tr>
<td>Salaries and wages</td>
<td>222,880.04</td>
<td>165,655.52</td>
<td>74,951.38</td>
</tr>
<tr>
<td>Operation and maintenance</td>
<td>158,337.84</td>
<td>83,386.45</td>
<td>74,951.38</td>
</tr>
<tr>
<td>Administrative expense</td>
<td>45,747.35</td>
<td>11,166.22</td>
<td>34,581.13</td>
</tr>
<tr>
<td></td>
<td>736,303.92</td>
<td>255,781.23</td>
<td>480,522.70</td>
</tr>
</tbody>
</table>

| Net income before debt service charges | 93,956.51 | 42,497.53  | 51,458.98 |

<table>
<thead>
<tr>
<th>Debt Service:</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bond interest</td>
<td>28,257.50</td>
<td>19,780.25</td>
<td>8,477.25</td>
</tr>
<tr>
<td>Bond principal</td>
<td>24,000.00</td>
<td>16,800.00</td>
<td>7,200.00</td>
</tr>
<tr>
<td></td>
<td>52,257.50</td>
<td>36,580.25</td>
<td>15,677.25</td>
</tr>
</tbody>
</table>

| Net income after debt service charges | 41,699.01 | 5,917.28  | 35,781.73 |

| Bond Reserve Fund, July 1, 1963 | 100,000.00 |
| Net Income Used for Other Corporate Purposes | 41,699.01 |
| Bond Reserve Fund, June 30, 1964 | $100,000.00 |
UNIVERSITY OF NEW MEXICO

Dormitory Bonds, Series of 1957 "System"

Statement of Income

Year Ended June 30, 1964

<table>
<thead>
<tr>
<th>Source of Income</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bond interest</td>
<td>$44,040.00</td>
</tr>
<tr>
<td>Bond principal</td>
<td>$30,000.00</td>
</tr>
<tr>
<td>Bond reserve</td>
<td>$32,000.00</td>
</tr>
</tbody>
</table>

Income available for operations: $141,927.31

<table>
<thead>
<tr>
<th>Expenditures:</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salaries and wages</td>
<td>$43,239.55</td>
</tr>
<tr>
<td>Operation and maint.</td>
<td>$39,216.49</td>
</tr>
<tr>
<td>Administrative expenses</td>
<td>$8,945.81</td>
</tr>
</tbody>
</table>

Net income for operations: $35,887.31

<table>
<thead>
<tr>
<th>Funds Provided from Other Sources:</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noneducational revenues</td>
<td>$32,000.00</td>
</tr>
<tr>
<td>Auxiliary enterprises</td>
<td>$55,514.54</td>
</tr>
<tr>
<td>Interest earned on investments</td>
<td>$12,514.31</td>
</tr>
</tbody>
</table>

Total available for operations: $209,536.45

<table>
<thead>
<tr>
<th>Reserve Balance as of July 1, 1963</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>165,022.14</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reserve Balance as of June 30, 1964</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>$209,536.45</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Represented by:</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dormitory Bond and Interest and Retirement Fund</td>
<td>$158,000.00</td>
</tr>
<tr>
<td>Maintenance and Equipment Reserve Fund</td>
<td>$51,536.45</td>
</tr>
</tbody>
</table>

| Total          | $209,536.45  |
**UNIVERSITY OF NEW MEXICO**

**Student Union Bonds, Series of 1957, "System"**

**Statement of Income**

**Year Ended June 30, 1964**

<table>
<thead>
<tr>
<th></th>
<th>New Mexico Union</th>
<th>Associated Students Bookstore</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sales</strong></td>
<td>$450,228.60</td>
<td>797,009.93</td>
<td>1,247,238</td>
</tr>
<tr>
<td><strong>Cost of Sales</strong></td>
<td>211,831.66</td>
<td>597,229.19</td>
<td>809,060</td>
</tr>
<tr>
<td><strong>Gross Profit</strong></td>
<td>238,396.94</td>
<td>199,780.74</td>
<td>438,177</td>
</tr>
<tr>
<td><strong>Other Income</strong></td>
<td>97,380.89</td>
<td>2,945.06</td>
<td>100,325</td>
</tr>
<tr>
<td><strong>Current Expenses:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salaries and wages</td>
<td>199,218.25</td>
<td>61,868.14</td>
<td>261,086</td>
</tr>
<tr>
<td>Operation and maintenance</td>
<td>71,345.54</td>
<td>30,907.49</td>
<td>102,253</td>
</tr>
<tr>
<td>Administrative and occupancy expenses</td>
<td>139,088.57</td>
<td>38,882.98</td>
<td>177,971</td>
</tr>
<tr>
<td><strong>Net income (loss) from operations</strong></td>
<td>(73,874.53)</td>
<td>71,067.19</td>
<td>(2,807)</td>
</tr>
<tr>
<td><strong>Other Income of the System:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student fees available for operating loss</td>
<td>59,422.50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less portion applied to losses of prior years</td>
<td>16,615.16</td>
<td>42,807.34</td>
<td></td>
</tr>
<tr>
<td>Student fees pledged to bonds</td>
<td></td>
<td>119,722.00</td>
<td></td>
</tr>
<tr>
<td>Additional student fees provided from noneeducational revenues</td>
<td>10,953.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interest earned on invested reserve funds</td>
<td>3,592.26</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Debt Service:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bond interest</td>
<td>95,675.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bond principal</td>
<td>35,000.00</td>
<td></td>
<td>130,675</td>
</tr>
<tr>
<td><strong>Additions to reserves for the year</strong></td>
<td></td>
<td></td>
<td>43,592</td>
</tr>
<tr>
<td><strong>Reserve Balances, July 1, 1963</strong></td>
<td></td>
<td></td>
<td>65,000</td>
</tr>
<tr>
<td><strong>Reserve Balances, June 30, 1964</strong></td>
<td></td>
<td></td>
<td>$ 108,592</td>
</tr>
<tr>
<td><strong>Represented by:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student Union Building Bond and Interest and Retirement Fund</td>
<td></td>
<td>$ 10,000.00</td>
<td></td>
</tr>
<tr>
<td>Building Maintenance and Equipment Reserve Account</td>
<td></td>
<td>98,592.00</td>
<td></td>
</tr>
<tr>
<td><strong>Represented by:</strong></td>
<td></td>
<td></td>
<td>$ 108,592.00</td>
</tr>
</tbody>
</table>
UNIVERSITY OF NEW MEXICO
Dormitory Revenue Bonds of 1962 System

Statement of Income
Year Ended June 30, 1964

<table>
<thead>
<tr>
<th>Income Description</th>
<th>Onate Dormitory</th>
<th>Santa Clara Dormitory</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rental Income</td>
<td>$39,886.56</td>
<td>43,706.98</td>
<td>83,593.54</td>
</tr>
<tr>
<td>Current Expenses:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salaries and wages</td>
<td>14,270.37</td>
<td>14,438.54</td>
<td>28,708.91</td>
</tr>
<tr>
<td>Operation and maintenance</td>
<td>16,151.99</td>
<td>20,479.01</td>
<td>36,631.00</td>
</tr>
<tr>
<td>Administrative expenses</td>
<td>2,386.72</td>
<td>2,613.75</td>
<td>5,000.47</td>
</tr>
<tr>
<td><strong>Less depreciation and applied general overhead</strong></td>
<td><strong>32,809.08</strong></td>
<td><strong>37,531.30</strong></td>
<td><strong>70,340.38</strong></td>
</tr>
<tr>
<td>Current expenses as defined by the bond resolution</td>
<td>28,826.84</td>
<td>33,345.95</td>
<td>62,172.79</td>
</tr>
<tr>
<td>Net rental income</td>
<td>11,059.72</td>
<td>10,361.03</td>
<td>21,420.75</td>
</tr>
</tbody>
</table>

Income of the System:
- Income of Hokona Dormitory available for this system | 41,699.01 |
- Funds provided from other noneducational revenues | 11,831.08 |

Bond Service:
- Bond interest | 21,650.84 |
- Bond principal | 20,000.00 |

Less accrued interest and premium on sale of bonds | 5,213.02 |

Expended Bond Proceeds | 13,295.80 |

Serve Balance, June 30, 1964 | $51,808.82 |
THE EDUCATIONAL OPERATING DOLLAR

Source of the dollar:

<table>
<thead>
<tr>
<th>Source</th>
<th>1964</th>
<th>1963</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student fees</td>
<td>.20</td>
<td>.22</td>
</tr>
<tr>
<td>State appropriation</td>
<td>.71</td>
<td>.70</td>
</tr>
<tr>
<td>Sales, services and miscellaneous</td>
<td>.01</td>
<td>.02</td>
</tr>
<tr>
<td>Los Alamos and Holloman instructional</td>
<td></td>
<td></td>
</tr>
<tr>
<td>programs and Sandia Base subsidy</td>
<td>.01</td>
<td>.03</td>
</tr>
<tr>
<td>Permanent land income - unpledged</td>
<td>.03</td>
<td>.01</td>
</tr>
<tr>
<td>Research overhead</td>
<td>.02</td>
<td>.02</td>
</tr>
<tr>
<td>Gifts and grants</td>
<td>.02</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>1.00</td>
<td>1.00</td>
</tr>
</tbody>
</table>

Which was spent in this way:

<table>
<thead>
<tr>
<th>Category</th>
<th>1963-64</th>
<th>1962-63</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administration and general</td>
<td>.13</td>
<td>.13</td>
</tr>
<tr>
<td>Instruction</td>
<td>.60</td>
<td>.60</td>
</tr>
<tr>
<td>Off-campus instruction</td>
<td>.04</td>
<td>.04</td>
</tr>
<tr>
<td>Libraries</td>
<td>.05</td>
<td></td>
</tr>
<tr>
<td>Operation and maintenance of plant</td>
<td>.15</td>
<td>.15</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>1.02</td>
<td>.97</td>
</tr>
</tbody>
</table>

Expenditures from other sources

<table>
<thead>
<tr>
<th>Source</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$(.02)</td>
</tr>
<tr>
<td></td>
<td>.03</td>
</tr>
</tbody>
</table>

EDUCATIONAL AND GENERAL EXPENDITURES PER STUDENT CREDIT HOUR

Cost per Student Credit Hour

<table>
<thead>
<tr>
<th>Source</th>
<th>1963-64</th>
<th>1962-63</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Arts and Sciences</td>
<td>$13.69</td>
<td>13.26</td>
</tr>
<tr>
<td>College of Business Administration</td>
<td>13.56</td>
<td>15.20</td>
</tr>
<tr>
<td>College of Education</td>
<td>21.64</td>
<td>19.68</td>
</tr>
<tr>
<td>College of Engineering</td>
<td>34.47</td>
<td>33.28</td>
</tr>
<tr>
<td>College of Fine Arts</td>
<td>29.06</td>
<td>31.61</td>
</tr>
<tr>
<td>College of Law</td>
<td>47.50</td>
<td>47.70</td>
</tr>
<tr>
<td>College of Nursing</td>
<td>62.89</td>
<td>51.97</td>
</tr>
<tr>
<td>College of Pharmacy</td>
<td>52.47</td>
<td>34.71</td>
</tr>
<tr>
<td>Dental Hygiene</td>
<td>63.12</td>
<td></td>
</tr>
<tr>
<td>Summer and field sessions</td>
<td>10.89</td>
<td>11.26</td>
</tr>
<tr>
<td>Army Reserve Officers Training Corps</td>
<td>14.69</td>
<td>16.52</td>
</tr>
<tr>
<td>Naval Reserve Officers Training Corps</td>
<td>5.12</td>
<td>5.30</td>
</tr>
<tr>
<td>Total direct instruction</td>
<td>18.21</td>
<td>16.92</td>
</tr>
<tr>
<td>Indirect instruction expense</td>
<td>3.32</td>
<td>3.26</td>
</tr>
<tr>
<td>Off-campus instruction</td>
<td>50.24</td>
<td>55.64</td>
</tr>
<tr>
<td>Other educational and general expenditures</td>
<td>11.47</td>
<td>10.87</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$33.59</td>
<td>31.80</td>
</tr>
</tbody>
</table>
REPORT OF THE DEPARTMENT OF HOUSING

INTRODUCTION

The 1963-64 fiscal year has been marked by great progress within areas encompassed by the Department of Housing at the University of New Mexico. Although problems have continued to be ever present, they have failed to seriously marr the smooth operation of the Department during the year. On the contrary, the problems that have arisen have been the inevitable result of a rapidly expanding program. The Director of Housing wishes to officially commend all Departmental staff members for their outstanding efforts during the year.

The rapid increase in enrollment at the University during the last few years has necessitated a corresponding increase in residence hall space to house the students desiring on-campus accommodations. This increase is predicted to accelerate during the next few years. New residence halls have recently been completed and a series of new halls, including both low and high rise structures, are scheduled for completion by 1968 in order to meet the need.

Significant developments within the department during the past year include:

The opening of Onate Hall on October 19, 1963 which was immediately filled to its capacity of 176 male residents.

The opening of Santa Clara Hall on September 12, 1963; a hall designed to house 168 female students.

The reorganization of the Personnel staff in the Men's Residence Halls with a resulting ratio of one Advisor to forty nine residents.
The assignment of meal tickets in Mesa Vista dining hall on a coeducational basis for the first time.

An increased emphasis on improving study conditions and educational programming within the various residence halls.

The installation of sound equipment in the two dining halls and adjacent lobbies of Hokona and Mesa Vista.

The completion of physical improvements in the older residence halls and the married student apartments.

The revision of housing forms: i.e., Housing Application, Housing Contract, Roommate Request Form, Contract Renewal Form, etc., in order to adapt data to future machine processing.

The letting of a contract with Swanson Coin Operated Laundry for the vending of all laundry equipment within the residence halls.

Additional information regarding the above developments is included in the following sections of this report. Problem areas encountered during the year, plans and recommendations for the future, and the composition and professional activities of the staff are analyzed. Finally a detailed statistical analysis of the various phases of the operation is provided.
SIGNIFICANT DEVELOPMENTS

The most significant development within the Department of Housing during the past fiscal year was the completion of two new residence halls. The normal capacity of the various halls was thereby increased from 1462 to 1804.

SANTA CLARA HALL

The new women's residence hall, Santa Clara, began operation on September 12, 1963. This residence hall was constructed in record time as a result of the deadline imposed by the arrival of students for fall registration. In attempting to meet this deadline, several short cuts were resorted to. Consequently, the early months of occupancy were marked by numerous problems which would not be expected under normal conditions. Nevertheless, the building has been well accepted by this year's residents and they are pleased with the accommodations provided.

ONATE HALL

It became evident early in the summer that it would be impossible to complete construction on both halls by the commencement of fall classes. Therefore primary emphasis was given to completing Santa Clara Hall, and Onate Hall was scheduled for a later opening. Since deadlines no longer existed for the completion of Onate, work progressed at a more normal rate and some of the mistakes made in the construction of Santa Clara were not repeated in Onate. The residents scheduled to occupy Onate were temporarily housed in Coronado Hall. These residents moved to Onate on October 19, 1963. The transfer progressed smoothly and it must be
noted that relatively few problems resulted from the tardy opening of the building. The Advisory staffs, desk staffs, and maintenance crews in each hall were commended for their efforts which produced this result.

1963 SUMMER SESSION

The summer of 1963 was perhaps the most hectic and burdensome summer period ever experienced by the Department of Housing. The reason for this was the poor planning of the summer conference schedule. No allowance was made for a clean-up period following the departure of regular students. Consequently, conferees were arriving before rooms were cleaned or even empty in some cases. Regular students were rushed out to make room for incoming groups. The result was awkward and a poor impression of the University was given to all concerned. Secondly, conferences were improperly spaced time-wise. During peak periods, the halls were so crowded that male and female guests had to be housed on the same floor of a building. This resulted in much criticism, particularly in the case of the Student Council Workshop. The end of the summer period was a repetition of the type of scheduling which marked the start. The Yearbook Seminar was scheduled into the halls during the period when the sorority rush girls were back on campus and new students were beginning to arrive.

Following this experience, every effort was made by the new administration to set up safeguards to prevent a similar situation from arising in the future. The philosophy of the present administration is that the University has the responsibility to house summer conferences both as a public service
and also in order to provide additional summer revenue for the University and Department. However, an equally important consideration in housing summer conferences is the need to provide a good image of the University of New Mexico. Therefore, unless a group can be housed in a proper manner, they should not be scheduled at all. Rather than handle a group in a sloppy manner and risk the poor image which results, groups should be referred to local motels which can provide the accommodations they expect and deserve. Thirdly, the basic purpose of the Department is to provide good housing for the regularly enrolled students attending the University, and therefore the interests of these residents must be served first.

For the 1964 summer period all conferences have been scheduled through and by the Director of Housing. Keeping the above mentioned objectives in mind, the 1964 schedule has been set up on a functional basis. To date, the maintenance and operational programs have been able to operate smoothly and efficiently in handling the conference, workshop, and institute groups. Problems similar to those of last year have not developed nor are they foreseen as developing during the remaining portion of the summer.

**FAMILY HOUSING**

For the first time, a residence hall was set aside for married student housing. Couples and families are being housed in Onate Hall during the 1964 summer period. Although Onate Hall was designed as a men's hall and is not ideally suited for accommodating female residents, it was the only hall that could be made available for such an experiment.
At the present time, it appears that the experiment has not proved particularly successful. Only eight couples along with six children, i.e., 22 residents, signed contracts to live in Onate. The strongest factor in favor of the facility is that families can now be handled during the summer on an overnight guest basis. Another factor which might improve the numbers requesting the facility would be the reduction of the present cost. It does appear that the present rates established are almost prohibitive to married students.

CENTRIX TELEPHONE SYSTEM

The telephone system presently employed at the University of New Mexico has reached its capacity for expanding to meet the increased demands made upon it each year. These problems are particularly acute in the residence halls. The central switch board can no longer efficiently handle the load during peak periods. In the spring of 1963, the University Comptroller requested recommendations from the telephone company on how to best reorganize the setup to handle the rapidly expanding load. The telephone service representative, Mr. James Quinn, and various visiting consultants studied the situation for over a year and finally presented a documented recommendation that the University convert to the new Centrix system. This recommendation was adopted last spring.

The new system will allow for a phone in each student room in the residence halls. The additional cost of the system will result in an increase in the room and board cost for the resident. It is anticipated that this increase will be approximately $10.00 per semester. Student opinion has seemed
to indicate that the additional service will justify this increase. From an administrative viewpoint, the switch is seen as an overall improvement in the residence hall facilities. Although many of the previous problems resulting from inadequate telephone service will be eliminated, new administrative problems will undoubtedly arise. One problem area that will have to be worked out centers upon the method employed to bill residents for any unrestricted toll calls.

A big advantage of the system will be one of providing the residence halls with an excellent alarm system for fires and civil defense. Another obvious advantage will be the ease with which residents can be contacted by the Information Desk personnel and advisors.

CO-ED FEEDING

The Mesa Vista dining hall was operated on a co-educational basis for the first time this year. The female residents of Santa Clara and the male residents of Mesa Vista were fed in this dining facility. Unquestionably, conditions have improved markedly as a result of this change. The conduct of the male residents while dining as well as the entire atmosphere of the cafeteria is much better.

DINNER MUSIC

One physical development which has contributed to the improved dining atmosphere was the installation of intercommunication systems in both Hokona and Mesa Vista dining halls. Dinner music is provided during meal hours. This project was a joint effort of the residents, Department of Food Service,
and the Housing Department. The residents have been pleased with this accomplishment.

**MACHINE PROCESSING**

The Department of Housing and the Personnel Deans worked together in revising the various housing forms being used to reserve rooms for incoming residents. Such forms as applications, contracts, contract renewals, roommate request forms, and the like were revised. The new card forms are designed to be consistent with the type of data that can be machine processed in the future. This should result in considerable time saving.

**LAUNDRY CONTRACT**

Late last summer a decision was made by administrative personnel that it would be to the best interest of the University for the residence halls to switch to a vending operation of the laundry machines. A survey of the then existing situation disclosed that the University owned equipment was badly in need of replacement and that the service being provided the residents was less than adequate. It appeared that the problems encountered by the Department of Housing in attempting to operate the laundry facilities were too great to justify the meager profits obtained. It was decided that a more efficient and possibly an equally profitable operation would be provided if a satisfactory contract could be let with a vending company. Consequently, bids were requested. An excellent agreement was worked out with Swansons Coin Operated Laundry Company. For the most part, new equipment was installed
and the number of machines located in each area was increased. The resulting service has been excellent, and the working relationship with the vendor has worked out satisfactorily.

**OPINION SURVEYS**

Three surveys were conducted within the Department during the past fiscal year, each designed to determine specific needs of the residents.

Late in the 1963 spring semester, a survey was conducted of study conditions in the residence halls. The results suggested that improvement was needed in several areas. Therefore, a strong program designed to improve these conditions was launched this fall. A follow-up random survey of conditions this spring seemed to indicate that these efforts had improved the overall academic atmosphere within the halls. Nevertheless, it was also apparent that this area still offered real challenges to the Personnel Staff.

Secondly, at the request of the Dean of Students a survey of the occupants of the two new residence halls was conducted to determine their evaluation of the physical make-up of those buildings. Although some beneficial constructive criticism emerged, it was obvious that the residents were well satisfied with the living facilities provided by Santa Clara and Onate Halls.

Prior to proceeding with the installation of the new sound systems in the dining halls, a survey of residents was conducted to see if the request of the Residence Hall Council was indicative of a real desire on the part of the residents for such a service. The results of the survey proved the R. H. C. to be
a reliable index of resident opinion. The sound equipment was subsequently installed.

**RESIDENCE HALL COUNCIL**

A survey was conducted by the Residence Hall Council early in the spring semester. This survey was designed to obtain constructive criticism and realistic suggestions from residents on how to improve the food service. The council believed that their efforts in this regard resulted in several improvements in the dining halls.

Having worked on the project for two years, the Residence Hall Council adopted a new constitution late in the spring semester. The constitution should prove functional in most areas of operation.

**INCREASED SOCIAL FEE**

The social fee which each resident pays in addition to his room and board each semester is being increased from $2.00 to $3.00. This increase was requested by the Boards of Governors of each residence hall. The additional dollar from each resident is earmarked for use by the Residence Hall Council which previously has been forced to operate on funds donated by the various hall treasuries. This substantial budget should serve to make the Residence Hall Council one of the most active and influential student groups on campus. The primary aim of this group is to improve the educational and cultural programs within the residence halls.

**DEVELOPMENT IN THE MEN'S PERSONNEL PROGRAM**

The most significant development in the men's personnel program was the reorganization of the Advisory Staff. The
revised structure was outlined in last year's report. During the 1962-63 academic year the resident-counselor ratio was approximately 61 to 1. This ratio during the 1963-64 academic year was 49 to 1. This meant that the total number of resident advisors was increased from fourteen to twenty seven, including four advisors in the new hall. The improved study conditions, the reduced number of disciplinary referrals, and the reduced amount of vandalism and destruction of University property seems to easily justify the increased budget allotted to this area.

**BETTER INTER-HALL RELATIONS**

In past years a strong competitive spirit had developed between the two men's residence halls, Mesa Vista and Coronado. Unfortunately this spirit reached a stage in which antagonisms developed to a degree that endangered the cooperative working relationship which must exist among advisory staff members in order to operate efficiently. As a result of effective orientation and continued emphasis, this attitude was completely changed during the past year. The three halls worked together on a cooperative basis at all times with no antagonisms developing. Credit for this improved condition must go to the three Head Resident Advisors.

**JOINT STAFF MEETINGS**

The three Head Resident Advisors were included in the Housing administrative staff meetings this year. These meetings are conducted on a weekly basis. This has proven to be a wise decision since communication between the administrative staff and the advisory staff has improved greatly. Excellent rapport has emerged between the maintenance crew.
and the advisory staff. Requested improvements and repairs were acted on quickly and efficiently. The practice of weekly joint staff meetings will certainly be continued in the future.

EDUCATIONAL PROGRAM

The belief that study conditions have improved in the Men's Residence Halls as a result of the increased emphasis on maintaining an atmosphere conducive to academic achievement seems to be substantiated by the higher grade averages compiled this year by the residents. Coronado Hall was particularly impressive with the leading house maintaining a 2.41 average, closely followed by two others with averages of 2.36 and 2.32. Of course, there are many other factors operating within the University which contributed to this increase.

Tutoring programs within the three halls were used only moderately well. This area holds great potential if ways and means can be worked out to increase the financial situation and make the program more efficient. Unfortunately the students who are failing are seldom interested in seeking assistance through this means. Advisors contacted all residents on probation and most residents receiving an F at the eight week or semester period, encouraging them to take positive action in correcting the situation. The Advisors report that relatively few residents seemed to respond as a result of their efforts. Funds for the Tutoring Program are quite limited since they come from the social fee and from Resident Standards fines.

The cultural series carried out in Coronado and Mesa Vista Halls were believed to be successful by the Board of Governors
and the Advisors. Participation in the program increased notably.

**INTRAMURAL PROGRAM**

The intramural program received only average participation this year when compared to past years. As might be expected, some houses were very active and finished high in the point ratings while other houses showed little or moderate interest and participation. Even when interest is present with house residents, the program is only as effective as the leadership qualities of the Intramural Chairman. The advisors worked closely with the program, personally participating in almost all cases. Nevertheless, they are instructed to act in an advisory capacity on the planning level rather than to assume personal leadership of the program.

The various houses encountered the same difficulties experienced in the past in the scheduling of contests through the Physical Education Department. However, a separate league has been established for the Residence Halls next year. It is hoped that this change will prove to be a real boost for interest and participation on the part of next year's residents.

Most houses outfitted the team members with T-shirts which had the house emblem and house name embossed on them. This budgetary outlay from resident social fees seemed to be well spent in light of the increased unit identification and resident morale.

**SOCIAL PROGRAM**

Social programming within the Men's Residence Halls was very active during the past academic year. All halls carried
out extensive social programs. In some cases there appeared to be overemphasis in this area since some of the functions were poorly publicized, poorly attended, and very costly. Nevertheless, hall morale was high, and surprisingly few problems arose from this area of endeavor. Undoubtedly, social participation on the part of residents helps to establish an esprit de corps that is difficult to establish by other methods.

**LOAN FUND**

The Dorm Loan Funds were again used extensively. A total of 113 loans were made in Coronado Hall during the year for a combined total of $1,333.00. This total is almost four times the principal of the fund. The Mesa Vista Loan Fund had a total of 84 loans made against it adding to $789.50. This figure is also four times the total money available in the fund. The fund available in Onate Hall for this purpose was only $50.00. The fund was only in operation for the last two months of the spring semester. Nevertheless, 11 loans were made for a total of $100.00.

The above statistics make it quite apparent that there is a strong need for such funds in the residence halls.

**RESIDENT STANDARDS**

All Residence Standards Boards operated extremely well in their role as a hearing agency for offenses committed in the residence halls. The groups were well organized and handled their assignment in a serious and mature manner. These boards are now operating in a formal setting with a standardized operating procedure. Consequently, respect from the residents has
increased considerably. The new Operational Procedure which clearly outlines the structure, duties, and rights of the resident was adopted by all of the councils early in the year. The Mesa Vista Board heard 41 cases this year, the Coronado Board heard 20 cases, and the council in Onate heard five cases.

NEW CONSTITUTION

Student leaders and the advisory staff in the three men's halls took a giant step forward during the year by writing and adopting a uniform constitution for the student governing bodies. In the past, each hall operated under a different constitution. Since these constitutions varied considerably in basic fundamental processes, it was difficult to plan for a common program within the men's residence halls. It also placed a burden on residents moving from one hall to another. The old constitutions included obsolete articles which resulted in both legislative and judicial problems. The new constitutions are uniform, incorporating the best concepts of the old constitutions and adding new articles where needed. Resident government should be more effective in the future.

PLANS AND RECOMMENDATIONS

The University Planning Committee has outlined a building program which will provide adequate residence hall space to meet the enrollment increase through 1970. This plan calls for the construction of a series of small halls designed to be flexible enough to house either sex and large, high rise, buildings specifically intended to house one particular sex.
Although the plan may undergo revision as anticipated developments shift and change, it is basically sound and quite flexible. The University can easily adjust to changing enrollment trends by using the small halls to house male residents or female residents as needs demand. The small buildings are ideally suited for summer occupancy by any type of group since they will be air conditioned.

Although the high rise structures will be built with the purpose of housing either male or female students, it is recommended that the objective of flexibility not be abandoned. The need for housing the opposite sex at varying periods is always a possibility. Secondly, the recent publication, High Or Low Rise? A Study Of Decision Factors In Residence Halls Planning, strongly recommends that high rise structures be air conditioned. Such structures, if not air conditioned, can become untenantable during hot weather.

The first phase in the building program is presently in progress. Two small halls, each accommodating 166 residents, will be ready for occupancy the 1965 fall semester. The ground breaking should begin no later than early October, 1964. Preliminary drawings are being prepared for the first high rise hall which will house male students and which must be ready for occupancy in September, 1966. The successful timing of this second phase of the program is crucial. A somewhat similar high rise residence hall for female students is planned for the fall of 1968. The other small halls will be built as University needs predicate.
MESAVISTA HALL

At the time the men's high rise hall is completed and occupied, Mesa Vista Hall will be utilized to meet other pressing needs of the University. No longer serving as a residence hall, Mesa Vista will be ideally suited for auxiliary services because of the building's central location.

PEACE CORPS

It has become apparent that the allocation of residence hall space to house members of the Peace Corps next year cannot be justified. Undergraduate students requesting residence hall space must be given priority. Since there will not be sufficient space to meet the needs of undergraduates next fall, the University has been forced to find other suitable accommodations for the trainees. An off-campus apartment complex has been purchased by the University which will be used for this immediate purpose. The apartments can be used to accommodate married students if and when they are no longer needed for single student housing.

ROOM CHANGE FEE

Even though a great deal of time and effort is always spent in an attempt to assign students having compatible interests as roommates, inevitably a small proportion of the residents are dissatisfied and desire a change. A good personnel program will always provide for such changes when they are justified. Nevertheless, because of the administrative burden which is imposed by such shifting, every effort must be made to keep it to a minimum. Undoubtedly such factors as the installation of the Centrix telephone system, the increased number of resident students, and
the shift to data processing will magnify the problem.

In an attempt to keep room changes to a minimum and to help pay for staff time allocated to processing them, it is being recommended that a fee be charged for such a service. This fee would not be levied when the move is facilitated to meet a department need rather than the request of a particular resident. Also it seems justified to provide an opportunity for residents to move at a scheduled time early in a semester without any extra charge. It is hoped that such a policy would provide a satisfactory balance between the conflicting demands of good personnel relations versus effective business practice.

**ROOM ASSIGNMENTS**

Another operational change will go into effect next fall regarding the manner in which room assignments are made. Last year assignments were made by the Personnel Coordinator. Next year the Head Resident Advisor of each hall will make the room assignments for his own building. It is hoped that this procedure will allow the Head Resident an opportunity to make better assignments based on previous acquaintance with returning residents, will give him more control over the make up of his hall, will force him to become better acquainted with incoming residents, will divide the work load, and will ultimately result in quicker and more effective room changes during the year.

**STUDENT HOUSING BROCHURE**

There is presently a need for a short brochure which provides the prospective student with vital information regarding housing conditions for students attending the University of New Mexico. Most universities have this type of pamphlet.
Such a brochure is presently being prepared within the Department. It will include general information regarding housing accommodations presently available for student occupancy along with basic housing policies which affect the student. Specific information, highlighted by photographs, will be provided for the women's and the men's halls. Married student and off-campus housing will be described. Finally, a brief sketch of related University services will be included.

PROBLEM AREAS

One problem which became evident during the year resulted from the reduced stipend given to beginning advisors. In order to increase the number of advisors without a large budgetary increase, first year advisor's were no longer given a salary in addition to their room and board. Some of these individuals requested and were permitted to make other commitments for part time employment which was not seen as directly conflicting with their advising responsibilities. However, in almost every case, these advisors were unable to spend enough time in the hall to be completely effective.

Next year, House Advisors will receive board, room, and $25.00 per month and will not be allowed to make other job commitments. Exceptions to this policy will rarely be made in the future.

Another problem which became increasingly severe toward the end of the spring semester was the result of poor vending service being provided to residents. The University has contracted with the Albuquerque Vending Company to provide such
service for the total University complex. The operation within the residence halls is just one phase of the total contracted operation. Cigarettes, candy, cold and hot beverages, sweet rolls, and many other products are offered for sale to the student in this manner. The income resulting from the University's percentage commission goes into the University Scholarship Fund.

Student complaints about lost money, spoiled milk, partially filled beverage cups, stale rolls, etc. multiplied alarmingly toward the close of the spring session. Many of the machines are badly in need of replacing and a better servicing schedule must be worked out if the machines are to be maintained in proper operating condition.

It is recommended that pressure be brought to bear on the Albuquerque Vending Company by University officials to improve the situation or that the contract be broken and new bids be accepted.

RESIDENCE HALL MAINTENANCE

Many major physical improvements have been undertaken in the residence halls during the past year. No attempt will be made to provide cost figures in this report. Records of all repairs are available in the Housing Office, but they are too numerous to mention in a report of this nature. However, since one of the basic functions and responsibilities of the Department is to properly maintain the millions of dollars worth of property entrusted to it, a list of major improvements undertaken or completed will be included for
the benefit of any interested reader. The list is outlined by place of residence and follows below:

MARRIED STUDENT APARTMENTS

1. All twenty apartments were refurnished with new dinette tables and chairs. Three of the old sets were subsequently placed in the kitchenettes located in Santa Clara Hall. Ten of the remaining sets will be included in the furnishings of the new apartments recently purchased by the University to house the Peace Corps.

2. Six units were completely redecorated.

3. The bathroom floors of four units were recovered with linoleum.

4. Twelve underground garbage cans were installed by the physical plant. This will eliminate most of the unsightly surface garbage cans.

5. Major roof repairs were made on two units.

HOKONA HALL

1. The entire Zuni wing of Hokona was completely repainted during the summer of 1963.

2. The staff offices and the staff apartments were repainted.

3. The recreation room was refurnished with new furniture and lamps.

4. Student rooms were refurnished with new desks and dresser chests.

5. A section of the study room in the basement of Zia wing was partitioned off by a sliding partition.
and the old, usable furniture from the recreation room was installed.

6. Most of the pillows on the Hokona inventory were cleaned and recovered with new ticking.

SANTA CLARA HALL

1. Two telephone boothettes were installed on each floor, totaling six in all.
2. The glass in the doors connecting the lobby and hall areas was replaced with glazed glass in order to provide more privacy to the occupants.
3. Formica covered shelves and clothes hooks were installed in the restrooms.
4. Ironing boards were installed in the kitchenettes.
5. Full length mirrors were installed on each floor.
6. Shelves were installed in the linen room.

CORONADO HALL

1. A portion of the basement recreation room was partitioned off as a television room.
2. Sixty metal wardrobe closets were purchased in order to accommodate the Onate residents on a three-to-a-room basis in Coronado.
3. A refrigerated air conditioning system was installed in the office.
4. Vinyl asbestos tile was installed in the study room.
5. Six cigarette urns were installed in the lobby.

MESA VISTA HALL

1. All of the ceilings in the student rooms were repainted.
2. The wainscoting in all stairways was repainted.
3. A basement storage room was partitioned off into two sections. One section is used to store Civil Defense supplies, and the other has been set up as a weight lifting room for the residents.
4. New floor tile was installed in the elevator cab.
5. The shower stalls in two restrooms were completely remodeled. This was necessitated by malfunctions which repeatedly flooded the kitchen area.
6. A former study room was refurnished and converted into a combination conference-study room.
7. New carpeting was installed in the lobby.
8. All exterior trim on the doors, windows, and vegas were painted.
9. The pillows used for guests were cleaned and reticked.

ONATE HALL
1. Six full length mirrors were installed in the hallways.
2. Thirteen formica covered shelves with hooks were installed in the restrooms.
3. Sliding glass doors were installed in the bathrooms.
4. Six telephone boothettes were installed, two on each floor.
5. Ironing boards were installed in the laundry room.
6. Six new arm chairs were purchased for the typing room.
7. Wall-to-wall carpeting was installed in the lounge.
8. Holes were cut in the bottom shelves of the bookcases
for easy access to shut off radiator valves.

9. Drapes were installed in the lobby, T-V room, linen room, and the office.

**STAFF COMPOSITION, APPOINTMENTS, SEPARATIONS**

For the sake of clarity, the employees included within the department are listed in three groups, each grouping denoting an area of responsibility. The three groups consist, first, of those individuals playing an administrative role, secondly of housekeeping and maintenance personnel, and thirdly of the student employees comprising the Resident Advisor Staff. The Personnel Staff in the Women's Residence Halls is included in the Dean of Women's report.

**ADMINISTRATIVE STAFF**

The administrative staff includes the following:

Director of Housing  
E. J. Smith  
Assistant Director in charge of Maintenance  
R. E. Storment  
Personnel Coordinator-Men's Residence Halls  
Charles W. Carder (Terminated June 30)  
Bob J. Poole (Appointed July 1)  
Executive Housekeeper  
Thelma Mahone (Retired June 30)  
Nadine Palomo (Appointed June 1)

The secretarial staff included the following:

Coronado Hall  
Kaye Gossett  
Mesa Vista Hall  
Yvette Lively  
Onate Hall  
June Feise  
Hokona Hall  
Mabel Snyder  
Santa Clara Hall  
Mary Mangusso

**MAINTENANCE STAFF**

The maintenance staff included the following:

1. Hokona and Santa Clara Halls:

   Assistant Housekeeper  
   Toni Caire
<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assistant Housekeeper</td>
<td>Gertrude Wilson</td>
</tr>
<tr>
<td>Maintenance Engineer</td>
<td>Cedric Tate</td>
</tr>
<tr>
<td>Linen Room Attendant</td>
<td>Wanda Williams (Terminated June 30)</td>
</tr>
<tr>
<td>Linen Room Attendant</td>
<td>Gladys Stacy (Appointed July 1)</td>
</tr>
<tr>
<td>Janitor</td>
<td>Jesus Montoya</td>
</tr>
<tr>
<td>Janitor (hourly)</td>
<td>Cardenio Chavez</td>
</tr>
<tr>
<td>Maid</td>
<td>Estella Anaya</td>
</tr>
<tr>
<td>Maid</td>
<td>Dora Aragon</td>
</tr>
<tr>
<td>Maid</td>
<td>Anita Chavez</td>
</tr>
<tr>
<td>Maid</td>
<td>Rozann DeVargas</td>
</tr>
<tr>
<td>Maid</td>
<td>Epifania Martinez</td>
</tr>
<tr>
<td>Maid</td>
<td>Julie Romo</td>
</tr>
<tr>
<td>Maid (hourly)</td>
<td>Irene Benavidez</td>
</tr>
<tr>
<td>Maid</td>
<td>Margaret Garcia (Terminated June 13)</td>
</tr>
<tr>
<td>Maid</td>
<td>Emilia Hererra</td>
</tr>
<tr>
<td>Maid</td>
<td>Adella Trujillo</td>
</tr>
</tbody>
</table>

2. Coronado Hall:

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head Janitor</td>
<td>Manuel Chavez Jr.</td>
</tr>
<tr>
<td>Maintenance Engineer</td>
<td>John Fuentes</td>
</tr>
<tr>
<td>Linen Room Attendant</td>
<td>Lupe Trujillo</td>
</tr>
<tr>
<td>Janitor</td>
<td>Gavino Campbell</td>
</tr>
<tr>
<td>Janitor</td>
<td>Ralph Mierra</td>
</tr>
<tr>
<td>Maid</td>
<td>Genoveva Chavez</td>
</tr>
<tr>
<td>Maid</td>
<td>Martha Ortiz</td>
</tr>
<tr>
<td>Maid (hourly)</td>
<td>Maria Sanchez</td>
</tr>
</tbody>
</table>

3. Mesa Vista Hall:

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head Janitor</td>
<td>Arturo G. Gutierrez</td>
</tr>
<tr>
<td>Maintenance Engineer</td>
<td>L. H. Galloway</td>
</tr>
<tr>
<td>Linen Room Attendant</td>
<td>Juno Grant</td>
</tr>
<tr>
<td>Maintenance Engineer</td>
<td>Logan Fisher</td>
</tr>
<tr>
<td>Janitor</td>
<td>Julian Aragon</td>
</tr>
<tr>
<td>Janitor</td>
<td>Lorenzo Garcia</td>
</tr>
<tr>
<td>Maid</td>
<td>Mary Armijo</td>
</tr>
<tr>
<td>Maid</td>
<td>Josefa Duran</td>
</tr>
<tr>
<td>Maid (hourly)</td>
<td>Reynard G. Gutierrez</td>
</tr>
<tr>
<td>Maid</td>
<td>Mela Silva</td>
</tr>
</tbody>
</table>

4. Onate Hall:

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maid</td>
<td>Conrada Armijo</td>
</tr>
<tr>
<td>Linen Room Attendant</td>
<td>Eva Vaguera</td>
</tr>
<tr>
<td>Janitor</td>
<td>Ott Thompson</td>
</tr>
<tr>
<td>Janitor</td>
<td>Estanislado Chavez</td>
</tr>
</tbody>
</table>
STUDENT ADVISORS STAFF

1. Coronado Hall:

   Head Resident Advisor
   Donald Keith
   Floor Advisor
   Stanley Kresicki
   Floor Advisor
   Bill Lincoln (Terminated March)
   Floor Advisor
   Gilbert Jaramillo (Appointed March)
   Floor Advisor
   Blas Urquidez
   House Advisor
   Kent Bennington (Terminated February)
   House Advisor
   Howard Hubbard (Terminated February)
   House Advisor
   Keith Kellum
   House Advisor
   Roy Martin (Appointed February)
   House Advisor
   John Measday
   House Advisor
   Efren Rocha
   House Advisor
   Dave Rogers (Appointed February)
   House Advisor
   John Watson (Appointed March)
   House Advisor
   Douglas Young

2. Mesa Vista Hall:

   Head Resident Advisor
   Bob Neeb
   Floor Advisor
   Charles Deason
   Floor Advisor
   Bill Johnson
   Floor Advisor
   Eldon Marr
   Floor Advisor
   Bill Avery
   House Advisor
   Jerry Ortiz Y Pino
   House Advisor
   Charles Pharris
   House Advisor
   Charles Ray (Appointed February)
   House Advisor
   Jim Roach
   House Advisor
   Bill Warren
   House Advisor
   Jim Wiese (Terminated February)
   House Advisor
   Amin Zavosh (Terminated April)

3. Onate Hall:

   Hall Advisor
   Jim Marquez
   Floor Advisor
   Dooper Hicks (Appointed February)
   Floor Advisor
   Craig Heffelman (Terminated February)
   Floor Advisor
   Ed Lewis
   House Advisor
   Bill Hawke
RESIDENCE HALL STATISTICS

Table I
Occupancy Of Residence Halls: 1963-64

<table>
<thead>
<tr>
<th>Classification</th>
<th>Coronado</th>
<th>Mesa Vista</th>
<th>Onate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal Capacity</td>
<td>430</td>
<td>420</td>
<td>176</td>
</tr>
<tr>
<td>Residents Starting Fall Semester</td>
<td>530</td>
<td>444</td>
<td>*</td>
</tr>
<tr>
<td>Residents End of Fall Semester</td>
<td>332</td>
<td>383</td>
<td>147</td>
</tr>
<tr>
<td>Residents End of Spring Semester</td>
<td>383</td>
<td>347</td>
<td>162</td>
</tr>
<tr>
<td>Total Move Outs</td>
<td>250</td>
<td>162</td>
<td>53</td>
</tr>
<tr>
<td>Total Move Ins</td>
<td>67</td>
<td>92</td>
<td>42</td>
</tr>
</tbody>
</table>

* Although no residents were in Onate at the start of the Fall Semester, 173 residents moved into the Hall in October.

Table II
Classification By Class
Residence Hall Occupants

<table>
<thead>
<tr>
<th>Classification</th>
<th>Coronado</th>
<th>Mesa Vista</th>
<th>Onate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>311</td>
<td>252</td>
<td>136</td>
</tr>
<tr>
<td>Sophomore</td>
<td>123</td>
<td>140</td>
<td>41</td>
</tr>
<tr>
<td>Junior</td>
<td>84</td>
<td>64</td>
<td>20</td>
</tr>
<tr>
<td>Senior</td>
<td>58</td>
<td>27</td>
<td>7</td>
</tr>
<tr>
<td>Graduate</td>
<td>19</td>
<td>12</td>
<td>10</td>
</tr>
<tr>
<td>Unclassified</td>
<td>2</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Total Regular Students</td>
<td>597</td>
<td>498</td>
<td>215</td>
</tr>
<tr>
<td>Peace Corps Trainees</td>
<td>558</td>
<td>38</td>
<td>0</td>
</tr>
</tbody>
</table>
Table III

Reasons Listed For Withdrawing From Residence Halls
Prior To End Of Academic Year

<table>
<thead>
<tr>
<th>Classification</th>
<th>Coronado</th>
<th>Mesa Vista</th>
<th>Onate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Withdrew from University</td>
<td>24</td>
<td>68</td>
<td>18</td>
</tr>
<tr>
<td>Moved to off-campus accommodations</td>
<td>31</td>
<td>13</td>
<td>12</td>
</tr>
<tr>
<td>Transferred Residence Halls</td>
<td>178</td>
<td>22</td>
<td>11</td>
</tr>
<tr>
<td>Graduated</td>
<td>7</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Marriage</td>
<td>3</td>
<td>12</td>
<td>4</td>
</tr>
<tr>
<td>Move to Fraternity</td>
<td>7</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>Peace Corps</td>
<td>422</td>
<td>38</td>
<td>0</td>
</tr>
</tbody>
</table>

Table IV

Guest Lodging - UNM Residence Halls

<table>
<thead>
<tr>
<th>Classification</th>
<th>Hokona</th>
<th>Santa Clara</th>
<th>Coronado</th>
<th>Mesa Vista</th>
<th>Onate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guests Housed</td>
<td>1434</td>
<td>14</td>
<td>341</td>
<td>991</td>
<td>28</td>
</tr>
<tr>
<td>Overnights</td>
<td>6708</td>
<td>34</td>
<td>740</td>
<td>4105</td>
<td>31</td>
</tr>
</tbody>
</table>
### Table V

1963-64 Conference Groups

<table>
<thead>
<tr>
<th>Group</th>
<th>Hall</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>NCAA Track Meet</td>
<td>Mesa Vista &amp; Coronado</td>
<td>June 12-15</td>
</tr>
<tr>
<td>Society of Mammologists</td>
<td>Mesa Vista</td>
<td>June 16-19</td>
</tr>
<tr>
<td>Girls State</td>
<td>Hokona</td>
<td>June 16-23</td>
</tr>
<tr>
<td>Music Festival-Jr. High</td>
<td>Hokona &amp; Mesa Vista</td>
<td>June 17-22</td>
</tr>
<tr>
<td>Anthropology Field Session</td>
<td>Mesa Vista</td>
<td>June 22</td>
</tr>
<tr>
<td>Music Festival-Sr. High</td>
<td>Hokona &amp; Mesa Vista</td>
<td>June 24-29</td>
</tr>
<tr>
<td>YMCA Young Life Group</td>
<td>Mesa Vista</td>
<td>July 13</td>
</tr>
<tr>
<td>YMCA Savannah, Ga., Teachers</td>
<td>Hokona</td>
<td>July 16-19</td>
</tr>
<tr>
<td>Physical Plant Workshop</td>
<td>Mesa Vista</td>
<td>July 25</td>
</tr>
<tr>
<td>Cheerleaders Clinic</td>
<td>Hokona</td>
<td>July 28-</td>
</tr>
<tr>
<td>All Star Players and Coaches</td>
<td></td>
<td>Aug. 2</td>
</tr>
<tr>
<td>City Aquatic Invitational</td>
<td>Mesa Vista</td>
<td>Aug. 3-11</td>
</tr>
<tr>
<td>NM Assoc. of Student Council</td>
<td></td>
<td>Aug. 3-5</td>
</tr>
<tr>
<td>Workshops</td>
<td>Hokona &amp; Mesa Vista</td>
<td>Aug. 11-16</td>
</tr>
<tr>
<td>Artesia Swimmers</td>
<td>Mesa Vista</td>
<td>Aug. 17</td>
</tr>
<tr>
<td>NCPEA Planning Committee</td>
<td>Hokona</td>
<td>Aug. 20-21</td>
</tr>
<tr>
<td>University of Indiana Band</td>
<td>Mesa Vista</td>
<td>Aug. 25 &amp;</td>
</tr>
<tr>
<td>Yearbook Seminar</td>
<td>Hokona</td>
<td>Sept. 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sept. 6-7</td>
</tr>
</tbody>
</table>

### Table VI

Income From Laundry Operation

<table>
<thead>
<tr>
<th>Hall</th>
<th>Vending Income From Washers and Dryers</th>
<th>Dry Cleaning and Laundry Commission</th>
<th>Vending Income from Hair Dryers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hokona</td>
<td>$1,569.21</td>
<td>$285.09</td>
<td>$190.19</td>
</tr>
<tr>
<td>Santa Clara</td>
<td>279.48</td>
<td>95.02</td>
<td>.00</td>
</tr>
<tr>
<td>Coronado</td>
<td>911.31</td>
<td>518.54</td>
<td>.00</td>
</tr>
<tr>
<td>Mesa Vista</td>
<td>1,147.00</td>
<td>950.85</td>
<td>.00</td>
</tr>
<tr>
<td>Onate</td>
<td>255.80</td>
<td>171.51</td>
<td>.00</td>
</tr>
<tr>
<td>UNM Apartments</td>
<td>254.05</td>
<td>.00</td>
<td>.00</td>
</tr>
<tr>
<td>Totals</td>
<td>$4,516.85</td>
<td>$2,021.01</td>
<td>$190.19</td>
</tr>
</tbody>
</table>
Table VII

Peace Corps Groups

<table>
<thead>
<tr>
<th>Contingent</th>
<th>Number</th>
<th>Check In</th>
<th>Check Out</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honduras</td>
<td>88</td>
<td>June</td>
<td>August</td>
</tr>
<tr>
<td>Ecuador</td>
<td>95</td>
<td>July</td>
<td>September</td>
</tr>
<tr>
<td>Columbia (CO)</td>
<td>22</td>
<td>July</td>
<td>August</td>
</tr>
<tr>
<td>Honduras RCA</td>
<td>26</td>
<td>August</td>
<td>October</td>
</tr>
<tr>
<td>Columbia 8</td>
<td>25</td>
<td>September</td>
<td>December</td>
</tr>
<tr>
<td>Columbia 15</td>
<td>64</td>
<td>October</td>
<td>January</td>
</tr>
<tr>
<td>Brazil 7</td>
<td>16</td>
<td>November</td>
<td>February</td>
</tr>
<tr>
<td>Re-runs</td>
<td>19</td>
<td>January 31</td>
<td>February 4</td>
</tr>
<tr>
<td>Re-runs and CO</td>
<td>17</td>
<td>January 26</td>
<td>February 4</td>
</tr>
<tr>
<td>Venezuela RCA-Chile RCA</td>
<td>44</td>
<td>February</td>
<td>May</td>
</tr>
<tr>
<td>Brazil-Columbia</td>
<td>142</td>
<td>June</td>
<td>Remain</td>
</tr>
<tr>
<td>Totals:</td>
<td>558</td>
<td>558</td>
<td>442</td>
</tr>
</tbody>
</table>

-136 Trainees remain in Coronado Hall
-38 Married Trainees were housed in Mesa Vista during 1963 Summer

OUTSIDE PROFESSIONAL ACTIVITIES OF STAFF

Charles W. Carder, Personnel Coordinator of the Men's Residence Halls, attended the regional convention of the Intermountain Association of College and University Residence Halls at the University of Wyoming on October 25-26, 1963. He also attended the national convention of the Association of College and University Residence Halls in April.

Roscoe E. Storment, Maintenance Director, attended the annual conference of the Intermountain Housing Association held at the University of Arizona on April 7-10, 1964.

E. J. Smith, Director of Housing, served on the program at the annual national conference of the Association of College and University Housing Officers held at the University of California, Los Angeles on August 4-8, 1963. His program
topic was, "Philosophy and Procedure for Coordinating Campus Discipline Responsibilities". He attended the above noted regional conference of IACURH with Mr. Carder at the University of Wyoming in October. On November 6-9, 1963, he attended the Regional Housing Institute conducted at New Mexico State University. Lastly, he attended the Intermountain Housing Conference along with Mr. Storment. At this conference he was again a member of the program and assigned the discussion topic of "Educational Programming in the Residence Halls".
PREFACE

During the 1963-64 fiscal year the Physical Plant Department has continued to maintain the buildings, grounds, equipment and utilities located on the South, Central and North Campi; has provided services and assisted in the planning for the many functions held on the Campus; has either directly or indirectly handled or supervised numerous capital improvement assignments; has supported a significant Peace Corps operation both on the main Campus and in Taos County; has performed major improvements at Lawrence Ranch; has expended significant amounts of time and effort in the planning, coordination and inspection of new construction by outside contract; and has participated in every major activity and accomplishment in connection with the 75th Anniversary Year.

Following is a six part report covering the following subjects:

3. Special Activities.
4. Taos Property Improvements.
5. Staff Additions and Department Organizational Modifications.
6. Miscellaneous Activities and Accomplishments.
7. Conclusions and Recommendations.
PART ONE

MAINTENANCE & SERVICE FUNCTION

On July 1, 1963, the Physical Plant Department had 181 employees. The principle function of these people is to operate, repair and maintain the existing 77 buildings and 560 acres of grounds and related equipment that comprise the main campus. As of July 1, 1964, we have 228 employees that are divided into 13 shops or sections. Below is a brief description of each shop or section and its function, plus a brief recap of the problems of each particular shop or section.

Administrative:

Director: M. F. Fifield
Supervisor of Construction & Maintenance: Floyd B. Williams, Jr.
Supervisor of Services: H. S. Adler
Office Manager: Marian A. Pierce
Safety Officer/Engineer: Walter B. Lewis
Horticulturist: Frank B. Feather

15 Employees

Function: To direct the operations of the entire department and maintain fiscal control, plus secretarial support for the department.

Automotive:

Foreman: Spencer Smothers
5 Employees

Function: The maintenance of one hundred seventeen vehicles, (117) and twenty (20) motorized construction units is the
primary responsibility of this shop. Collateral responsibilities include the scheduling of all road vehicles in the rental motor pool and assistance to all departments with their transportation problems.

Special Concern: The critical problem confronting this shop is working space. The mechanics are attempting to maintain the fleet in space that is much too small in area. Much of the work must be done outdoors. An unsafe, inefficient situation exists in this shop.

A properly designated facility, separated from the main building for fire safety reasons should be built.

Temporary relief can be had by moving the present south wall of the shop to the edge of the loading dock. This change would open up new working areas. We propose to inaugurate a second working shift each day, and request funds for an additional mechanic in order to have two men working the late shift.

The motor pool is short of several pieces of road equipment:

1. Only one 4-speed vehicle for off-highway use is available for rent. Station wagons and sedans are used for field trips by Biology, Geology and other related departments, resulting in excessive wear and damage to the vehicles.
2. The pool is in need of a small bus (16 to 24 passenger) to meet many requests which at present can only be serviced by rental of two or three station wagons.

3. Vehicles #7 and #49 (62 Ford Wagons) have reached the age and condition at which it would be more economical to trade them in for new models.

Carpentry & Mill:
Foreman: Charles Compton
12 Employees
Function: To install, construct and repair all wooden appurtenances, glass or building specialties; to replace and repair the roofs.
Special Concern: Insufficient salary and supply budgets, also one additional vehicle is needed.

Custodian:
Foreman: Hugh Urbanoski
63 Employees
Function: To provide complete custodial services inside all campus buildings where custodian responsibility is assigned to the Physical Plant Department. The staff of fifty-two full time employees, assisted by ten students who work part time, is charged with the problem of cleaning approximately 1,254,000 square feet of area each day.
Special Concern: The major problem faced by this section is the development of an equitable ratio of manpower to handle the constantly expanding campus buildings. Approximately fifty thousand square feet of area has been added, or converted, since our last budget was submitted, which had not been anticipated by the Custodian Section. The higher standards of cleanliness and sanitation required necessitates the lowering of the square foot assignments for each custodian. The staff should be enlarged by six full time men to properly handle the work load this section carries.

The starting wage ($1.25/hr) as well as the entire wage scale should be raised to the prevailing Albuquerque scale for men trained in this line of work.

**Electrical & Refrigeration Section:**

Foreman: Adrian Robbins

14 Employees

Function: To install and repair all electrical and refrigeration equipment and appurtenances and to maintain and support the operation of sound systems.

Special Concern: Insufficient salary budget. This group needs more space for material and tool storage.

**Field Construction:** (Organized 7/1/64 - This was formerly a part of Machinery Repair Section)

Foreman: James Anthony

11 Employees
Function: To construct, install and repair all miscellaneous metal items and duct work on the campus. This group also handles a multitude of miscellaneous responsibilities.

Special Concern: Insufficient salary and supply budget. Two additional vehicles are needed.

One additional sheet metal worker and two additional laborers are needed.

This group needs more space for work shops and storage.

Locksmith Shop:

Foreman: Aubrey S. Killough

1 Employee

Function: The basic function of this shop is the maintenance and servicing of all the locking devices and door closures on the campus. These services include planning key changes in existing structures, consulting with the University Architect, Deans and Department Heads in planning the locking security of proposed new buildings, and maintenance of accurate records of all tumbler and keying combinations.

Special Concern: The most pressing problem for this shop continues to be the ease with which anyone so inclined can have University keys duplicated off campus. It should be noted that a proposed bill has been drafted by the University's Legal Council and will be intro-
duced in the 27th Legislature making it illegal for unauthorized locksmiths to duplicate keys stamped "Property of the State of New Mexico".

**Machinery Maintenance:**

**Foreman:** Floyd Faustman

**8 Employees**

**Function:** To maintain all machinery, fans, pumps, compressors, filters and related appurtenances all over the campus, exclusive of the equipment in the Central Heating and Refrigeration Plant. An additional function is to coordinate the acquisition of surplus property for the University.

**Special Concern:** Insufficient salary and supply budget. One additional vehicle is needed.

One additional repair man is needed.

This group needs more space for workshop, tool storage, general storage and surplus acquisition storage.

**Painters, Plasterers & Masons:** (Organized 7/1/64 - This was formerly a part of the Carpentry Shop.)

**Foreman:** Alton Pickard

**18 Employees**

**Function:** To install or repair all type of masonry and to maintain all painted surfaces on the campus.

**Special Concern:** Insufficient salary and supply budgets. Two additional vehicles are needed. One existing vehicle
should be retired.

Three additional painters are needed.

This group needs more space for tool and materials storage.

**Plumbing & Steamfitting:**
Foreman: Charles Retzlaff

11 Employees

Function: To install and maintain all plumbing and steam fitting fixtures and their related piping and appurtenances.

Special Concern: Insufficient salary budget.

**Grounds Section:**
Foreman: Paul Sheridan

33 Employees

Function: To maintain all campus grounds, streets, sidewalks and exterior building areaways; to maintain all existing plantings; to install and maintain new landscaping items; to remove trash from all buildings and from exterior surfaces; to provide the campus moving and hauling service; and to provide the central labor pool.

Special Concern: Insufficient salary and supply budget.

Four additional vehicles are needed.

Six additional landscape gardeners and four general laborers are needed.

This group at present does not have adequate central tool, materials and fertilizer storage space.
At least 5000 sq. ft. of enclosed shop and storage space is required for this purpose.

**Central Heating & Refrigeration Plant & Water System:**

Foreman: Pat Rainwater

Full Time Mechanical Engineer: R. O. Burke

Part Time Mechanical Engineer: A. D. Ford

8 Employees

Function: To maintain a continuous central supply of steam for heating, kitchen and laboratory use; of chilled water for cooling; of water for both sanitary and irrigation use; of compressed air for laboratory and the control system; and of gas for all campus uses.

Special Concern: (1) Insufficient manpower to handle increasing problems due to the enlargement of the system especially when the plant is in a crisis produced by a power failure, fuel failure, or equipment failure. The temporary solution to the handling of these emergencies is to provide the Foreman with housing adjacent to the plant so that he is available for emergency after hours calls. Consideration of this matter has been indicated by the Administration with the approval to consider the purchase of a marginal private dwelling in the vicinity of Ground and University; (2) Insufficient salaries for all Plant operating personnel; (3) The need for exceedingly careful shifting of cooling loads for the 1965 cooling season so that the present total cooling capacity of 2100 tons can
handle the present 3100 ton load by diversification, and this situation will continue until the new 2000 ton unit, now in the planning stage can be placed in operation. (Note: Logistically impossible to get into operation before May '66 if immediately authorized.)

(4) Get the new Central Control system now under construction into operation.

Physical Plant Management of Taos Properties:

Manager: Albert L. Bearce

11 Employees

Function: To maintain existing plant buildings, grounds, facilities and equipment; to construct approved additions or remodeling to these facilities; and to support the educational, conference, meeting and recreational programs of the University at these facilities - Harwood Foundation and Lawrence Ranch.

Special Concern: At Harwood Foundation: (1) Storage vault for valuable paintings, (2) New Library lighting, (3) Second rest room in 2nd floor gallery area; At Lawrence Ranch: (1) Complete Kiowa Village, (2) Complete water system, (3) Construct football practice field if required, (4) Construct a meeting room for Lobo Lodge (using available 40' x 100' quonset on slab), (5) get facilities into full conference and recreation use.
Major Capital Improvement Projects

1. Administration Building
   a. Coordination of air conditioning contract.
   b. Remodel of Comptroller's Office.
   c. Remodel of Cashier's Office.
   d. Conversion of coffee room to office for Graduate School.
   e. Remodel of room 202 for Psychology Department.

2. Art Building
   a. Conversion of weaving lab to Lithograph Studio.

3. Bandelier Hall
   a. Conversion of basement storage space to offices.

4. Carlisle Gymnasium
   a. Conversion of storage room to offices.
   b. Expansion of Police Department office.
   c. Conversion of chair storage room to Environmental Chamber Laboratory.

5. Chemistry Building
   a. Conversion of room 215 to laboratory space.
   b. Conversion of room 203 to offices.

6. Civil Engineering
   a. Construction of two offices in room 231.

7. Electrical Engineering
   a. Erection of four radar towers on roof.

8. Engineering Annex
   a. Installation of evaporative air conditioning system.
   b. Conversion of music studios to EE labs and offices.
9. Faculty Apartments
   a. Supervision of re-stuccoing by outside contract.

10. Fine Arts Center
    a. Final inspection of initial contract work.
    b. Coordination and inspection of office contract on second floor.

11. Geology Building
    a. Construction and erection of facilities for Fall-Out Shelter
       teaching space.

12. Golf Course (Existing)
    a. Supervision of fencing by outside contract.
    b. Grading and improvement of parking lot.

13. Golf Course (Proposed)
    a. Extensive planning for new course.

14. Industrial Arts
    a. Installation of teaching equipment.

15. Johnson Gym
    a. Complete replacement of sound system in arena Gymnasium (low
       level system installed)

16. Journalism Building
    a. Coordination of contract work on addition and air conditioning.

17. Medical School Building #2 (Medical Library)
    a. Extensive miscellaneous work to support the opening of new school.
    b. Coordination and supervision of contract work on the addition.

18. Observatory
    a. Conversion of classroom to faculty office and laboratory.

19. Onate Hall
    a. Final inspection and shakedown of building.
20. Pharmacy Building
   a. Installation of chilled water air conditioning system.

21. Research Center
   a. Construction of computer suite in old concrete lab with office suite on second floor.

22. Santa Clara Dormitory
   a. Final inspection and shakedown of building.

23. Service Building
   a. Remodel of Administrative offices.

24. University Stadium
   a. Major additions to landscaping including piping of slope surfaces.
   b. Replacement of U-3 bermuda with K-31, Newport blue and rhy mixture on main field.
   c. Complete replacement of sound system.

25. Landscaping per Eckbo Plan
   a. College of Education - 70% complete.
   b. Onate Dormitory - 40% complete.
   c. Santa Clara Dormitory - 30% complete.
   d. Johnson Gymnasium Lot - 85% complete.
   e. Fine Arts Center - 45% complete.

26. Landscaping (General)
   a. Coordination and supervision of the Stanford Entrance.
   b. Renovation of lawn at 1821 Roma.
   c. Renovation of lawn at President's residence.

27. Temporary Buildings
   a. Revision of H-1 for Psychology Department Lab.
   b. Revision of portion of T-17 for Medical School.
PART THREE

SPECIAL ACTIVITIES

William Bowen: Coordinator

Function: The function of this section is to ascertain the requirements and details for all special activities requiring Physical Plant support, participation in the planning and execution of the requirements, and coordinating the efforts of all participating Physical Plant personnel in a manner to insure the success of each special event using University facilities.

The Head of this section must be available from 8:00 AM to 5:00 PM each weekday for meetings and consultation, and also must attend the events which occur in the evenings, on Saturdays, Sundays, and holidays. During the 1963-64 fiscal year, 167 special events, running 279 days were held. During the fiscal year the Coordinator worked 458 hours, in addition to his regular weekly schedule. The problem in this section is proper compensation for the extra hours and days the Coordinator must work to properly do his job.
PART FOUR

TAOS PROPERTY IMPROVEMENTS

The significant improvements accomplished during the 1963-64 fiscal year are as follows:

Lawrence Ranch

1. Installation of 28 Wingfoot Cottages (5 double and 18 single) in Kiowa Village - 60% complete.
2. Installation of Kiowa Village utilities (sewer, water, electricity and butane gas) - 60% complete.
3. Construction of Kiowa Village dam and reservoir - 50% complete.
4. Construction of Lobo Lodge - 90% complete (further work held in abeyance pending final use and development plans).
5. Construction of main water line into tank setting above Lobo Lodge from Gallina Creek - 50% complete.
6. Construction of Maintenance Building/Manager Quarters - 80% complete.
7. Construction of Ranch roads and improvement of access road into Ranch - 90% complete.
8. Miscellaneous landscaping and area planting - probably less than 10%.

Harwood Foundation

1. Replacement of a main bearing roof beam - Community Room.
PART FIVE

STAFF ADDITIONS AND DEPARTMENTAL ORGANIZATION MODIFICATIONS

General important Staff additions, changes or modifications were:

Dispatcher: On July 1, 1964, Mr. J. R. Callahan assumed the responsibilities of the newly created assignment of Dispatcher and handles all incoming service and emergency calls during office hours. He has been set up in a centrally located Dispatcher office in the Service Building and is in constant communication with all key Supervisors and Foremen via short wave radio. Thus, an incoming call for service is handled by one single Dispatcher who expedites the relating paper work to completion through each shop or section. Mr. Callahan has a BS degree from Texas Tech, has been with the department two and one half years and moved up to the Dispatcher assignment from Assistant Foreman of the Central Heating and Refrigeration Plant.

Mechanical Engineer & Controls Specialist: On May 1, 1964, Mr. R. O. Burke was given a staff assignment to understudy the work presently handled by Prof. A. D. Ford and to provide the technical supervision required to correctly insure the proper operation of the Central Control System for the campus, now under construction. Mr. Burke holds a BS degree in Mechanical Engineering from UNM, is a Registered Professional Engineer, and comes to the assignment with 25 years experience with the Johnson Service Company, the supplier of 90% of the controls used on the UNM campus.
Creation of Two New Shops: In order to provide a more thorough accomplishment of assigned work tasks, the work previously assigned to two shops was split up and assigned to four shops. The new arrangement is shown in Part One of this report. The personnel specifically involved are:

Mr. James Anthony takes over the Field Construction Shop. Although he has only been with UNM for one year, he has had 24 years experience in the construction field.

Mr. Alton J. Pickard assumes direct responsibility of the Painters, Plasterers & Masons. He has been with UNM 9 years and an Assistant Foreman for 5 years.

Safety Officer: The assignment of a Departmental Safety Officer was officially created on July 1, 1964. Mr. Walter B. Lewis was given this assignment on a half time basis, the remainder of his time to be spent in the Engineering Section of the Department.

Special Activities Coordinator: With Mr. Adler's assumption of responsibilities as Supervisor of Services, we were long overdue in giving him proper support in his previous assignment of Special Activities Coordinator. This was finally officially accomplished on July 1, 1964. Mr. William H. Bowen was assigned to this important and sensitive detail. Mr. Bowen comes to the assignment from the Police Department where he has been for 5 years, 4 years as Sergeant.
Assistant Foreman of Custodians: To help handle the myriad supervisory details created in handling the 60 men now assigned to the Custodian Section, a second Assistant Foreman position was created on July 1, 1964 and the assignment given to Mr. Ernest Benavidez who has been with the Section 1-3/4 years and a leading man one year.

The University Police: On July 1, 1964 the University Police were reorganized into a separate department reporting directly to the Comptroller. Mr. Jack Cairns, formerly a Lieutenant with the Police Department of the City of Albuquerque for some fifteen years, was assigned to head the new Department as the Director of Security. It is felt this move will enable a more efficient and direct coordination of security and police matters, and is following the trend in the assignment of this important function at the larger universities and colleges.

An organizational chart which reflects the present arrangement of the Physical Plant organization is inserted in the page following.
MISCELLANEOUS ACTIVITIES AND ACCOMPLISHMENTS

Custodian Workshop:

The seventh annual Custodian Workshop was held on July 25 & 26, 1963 with 134 men and women in attendance from 32 institutions coming from 3 states in addition to New Mexico. The guest lecturer was Mr. Wallace Cowman, Executive Housekeeper, Presbyterian Hospital Center, Albuquerque.

Safety Institute - Iowa State University:

On July 8-18, 1963 Mr. H. S. Adler attended the Safety Institute where an overall look at the many hazards on a typical college campus was made together with some of the best ways to go about systematically removing as many of these hazards as possible.

Rocky Mountain Regional Meeting of the Association of Physical Plant Administrators:

On November 20-22, 1963, 6 UNM Physical Plant personnel attended the 10th annual meeting of the RMAPPA held at Arizona State University, Tempe.

Superintendent/Foreman Meeting:

On December 6 and 7, 1963, 6 UNM Physical Plant personnel attended the 10th annual New Mexico Superintendent/Foreman Meeting, held for the first time outside the State, at Texas College of Technology, Lubbock.

Physical Plant Workshop, Purdue University:

On July 28 and 29, 1963, the writer had the privilege of presenting
a total of 5 hours to the above Workshop on the subject of "The Organization and Administration of a Physical Plant Department".

Miscellaneous Visits:

On August 11, 1964, Mr. H. S. Adler visited the UCLA Medical Center.

The writer visited the following institutions during the year with particular emphasis on the Medical School facilities where available:

1. On April 27-30, 1964, the following institutions:
   
   Trinity University, San Antonio, Texas
   Southwest Texas Methodist Hospital, San Antonio
   Baylor University College of Medicine, Houston
   University of Texas, Austin
   Texas College of Technology, Lubbock

   These visits were made in connection with the meeting of the National Association of Physical Plant Administrators at Trinity University.

2. In early June the following institutions were visited in connection with a two week tour to attend the Industrial Relations Institute of the Navy Department in Washington, D.C.

   University of Maryland, College Park
   University of Florida, Gainesville

University United Fund:

In May of '63 President Popejoy named Mr. H. S. Adler, the Chairman of the University United Fund Drive. Through Hy's leadership we are pleased to advise the University's goal of $15,350,00 was over subscribed through the participation of 60% of the corps as a whole and a 75% participation by Physical Plants, an all time high by each classification.
Graduate - Albuquerque Police Academy:

On December 20, 1963, Sgt. Leo Lucero became the first University Police Officer to graduate from the 440 hour course of the Albuquerque Police Academy.

Fallout Shelter Center:

We would be remiss not to list as one of the most unusual accomplishments at UNM, the construction of a model fallout shelter for the entire campus. This is the 357 man shelter located in the basement of the Geology Building. This shelter has been made more habitable as a Geology Laboratory and classroom facility because former marginal storage space was cleaned out, lighted and painted. Also the 65 folding Navy crew berths which were installed did not in any way conflict with the Laboratory space that was created.

Special thanks for this excellent project should go to the Geology Department and all USGS offices located on the 2nd floor who cooperated in the adjustment of storage space to accommodate this excellent teaching facility for the Civil Defense Training Courses on the University campus.

"Who's Got the Lead - You that's Who":

Our goal of one slide/tape a year was maintained the past year with the production of our best presentation to date, the above slide/tape on the all important subject of LEADERSHIP.

Our plan for the coming year is to produce a slide/tape on the subject of the most important and vital role of the Custodian in our operations.

Also we propose to prepare a rough script as requested by President Popejoy which will tell the Department Heads and their secretaries how to efficiently request and use the services of the several service departments on the campus.
PART SEVEN

CONCLUSIONS AND RECOMMENDATIONS

We hope this report has conveyed to the reader the fact that the year we report on has been one of accomplishment for the Physical Plant Department. Significant as these accomplishments were, it is much better to face the challenge of the year ahead. Just briefly here are the salient problems we should endeavor to solve during the 1964-65 fiscal year:

1. More adequate space for the shops and sections of the Physical Plant Department. And with this we include the urgent need for covered storage space for furniture, equipment, supplies and materials; which, incidentally, is a campus wide problem for several Departments, including the Physical Plant Department.

2. Increase in salaries, particularly among the crafts. In order that the University have the best skill available for the many tasks undertaken by the Physical Plant Department in the prime areas of maintenance, operation and service and in the secondary areas of construction and major remodeling, every effort to give a significant increase to the salaries of all skilled personnel should be made.

3. With the increase in student population, we are setting the stage for several types of accidents. Every effort will be continued both by personnel within the Physical Plant Department as well as through the Campus Safety & Civil Defense
Committee to discover and where possible encourage the elimination of the hazards found. A single trained safety officer with campus wide authority should be considered by the Administration as advocated by the Campus Safety & Civil Defense Committee.

4. Proceed in a planned, professional manner to implement a maximum amount of all the landscaping the University can budget and approve under the guidance of the Master Plan Committee.

5. Render assistance and otherwise expedite the planning and preparation for bidding a 2000 ton addition to the Central Refrigeration Plant.

6. Plan and otherwise either directly or indirectly expedite the construction of the following:

   A. New 18 hole golf course on the far south campus.
   B. Move soap box derby to new site in Tijorás Canyon and on site of present course construct 8 athletic practice fields south of University Stadium and a baseball field southwest of University Stadium and west of University Blvd.

7. Encourage the passage of legislation to make it illegal for unauthorized individuals and firms to duplicate keys to State of New Mexico properties. The simple wording in the proposed bill drawn up by the University's legal council follows:
TO REGULATE THE DUPLICATION OF KEYS OF THE STATE, ITS POLITICAL SUBDIVISIONS, AND ITS COLLEGES AND UNIVERSITIES: PROVIDING A PENALTY.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF NEW MEXICO:

Section 1. No person shall knowingly make or cause to be made any key or duplicate key for any building, laboratory, facility, room dormitory, hall or any other structure or part thereof owned by the State, by any political subdivision thereof or by the Board of Regents or other governing body of any college or university which is supported wholly or in part by the State without prior written consent of the State, political subdivision, Board of Regents or other governing body.

Section 2. Whoever violates this Act is guilty of a misdemeanor and upon conviction the Judge shall sentence such person to be imprisoned in the County Jail for a definite term less than one year, or to the payment of a fine of not more than one thousand dollars ($1,000.00), or to both such imprisonment and fine in the discretion of the Judge."
ANNUAL REPORT OF UNIVERSITY GOLF COURSE

July 1, 1963-June 30, 1964

SUBMITTED BY DICK McGUIRE, MANAGER

Total number of rounds played during the fiscal year were:

53,167

Major tournaments held on the University Golf Course were:

The Tucker Intercollegiate
UGA Invitational
Women's City Tournament
Men's City Tournament (one round)

Developments during the fiscal year 1963-64:

(1) The purchase of six more electric golf carts. This enlarged the fleet to sixteen.

(2) Construction of a new green and tee-box on #13 hole; this construction was in anticipation of the loss of our present green due to the addition to the Physics complex and the city flood control project.

(3) Improvements were made in the club house parking lot facilities, including cement parking bumpers and a re-grading for better drainage.

(4) General improvements on the golf course included sodding worn areas between tees and greens, planting trees on #5 hole to protect homes on North boundary of course, fertilizing, seeding, and weed
control programs.

Plans and recommendations for the near future.

(1) Installation of a chain link fence to border Stanford Blvd.

(2) Construction of new 18 hole golf course with a projected completion date of Labor Day 1965.

Outside professional activities of staff members.

(1) Dick McGuire served as Secretary-Treasurer of the NCAA Golf Coaches Association.

(2) Dick McGuire served as President of the New Mexico Chapter of the Southwest Section of the Professional Golfer's Association of America.

(3) Bob Meiering served as Chairman of the Northern New Mexico Course Rating Committee, New Mexico Chapter, P.G.A.
Fiscal year 1963-64 provided more growth for the Printing Plant. Improvements during the previous years were consolidated to provide a better and more efficient operation. The volume of Sales increased 24.3% over the last fiscal year. With production up, the Plant was able to show a profit and still maintain the same overhead charge of 115% on direct labor. This percentage has been used for the past four years.

As of June 30th, the Plant had a working complement of the following personnel:

Manager (1)
Secretary (1)
Bookkeeper (1)
Proofreaders (2)
Mimeograph Department (2)
Foreman (3) Composing Room, Pressroom & Bindery
Linotype Operators (3)
Compositors (3)
Pressmen (3)
Journeyman Book-Binders (2)
Journeywomen Bindery (4)
General (1) Part-time Mimeograph and Bindery

Total number of employees, 26
The following is a summary of Sales and different types of printing completed at the Plant during fiscal year 1963-64.

<table>
<thead>
<tr>
<th>Types of Printing</th>
<th>No. Jobs</th>
<th>Amount</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Printing (General)</td>
<td>859</td>
<td>$117,886.22</td>
<td>45.5%</td>
</tr>
<tr>
<td>Press</td>
<td>34</td>
<td>54,740.82</td>
<td>17%</td>
</tr>
<tr>
<td>Student</td>
<td>219</td>
<td>45,373.50</td>
<td>14%</td>
</tr>
<tr>
<td>Off-Campus</td>
<td>91</td>
<td>76,850.05</td>
<td>23.5%</td>
</tr>
<tr>
<td>Total Printing Jobs completed</td>
<td>1,203</td>
<td>$324,850.59</td>
<td>100%</td>
</tr>
</tbody>
</table>

Total Cash Receipts, same period          $75,489.43
Student Credit                            45,373.50
Total Revenue, Cash & Student Credit      $120,862.93

Profit, 1962-63                           $17,037.86
Profit, 1963-64                           23,122.12
Total Increase                           $6,084.26

Types of Printing:

- Business Reviews (23)                   27,000 Copies
- Brochures (21)                          157,110
- Catalogs (9)                            61,165
- Class Schedules (3)                     29,000
- Directories (3)                         10,700
- Hardbound Books (Boys Academy 200; Govt. Res. 300; Horn & Wallace 10,361; NMI of M&T 2,000; Museum of New Mexico 2,000; UNM Press 21,502; Mirage 4,957) 41,220
- Magazines (Alumnus 3, 71,010; LASL News 21, 119,105; Misc. 32, 19810) 209,925
- Maps (5)                                6,500
- Newsletters (5)                         71,350
- Newspaper (LOBO)                        131
- Paperback (Journals & Bulletins, 28)    41,904
- Programs (Football, Basketball, Track 24) 42,191

Total                                    701,226
Balance: Letterheads, Envelopes, Cards, Forms etc.

A total of 1203 Jobs were completed this past year. Student and off-campus printing accounts for 37.5% of the total volume of printing sales. The major off-campus customers are as follows:

- New Mexico Institute of Mining and Technology
- New Mexico Western University
- University of California Scientific Laboratory Los Alamos
- Museum of New Mexico
- Horn & Wallace Publishing Co.
- Academy for Boys
- New Mexico Military Institute
- Peace Corps
- New Mexico State University
- New Mexico State Tax Bureau
- Fort Burgwin Research Center
- Socorro, New Mexico
- Silver City, "
- Los Alamos, "
- Santa Fe, "
- Albuquerque, New Mexico
- " " "
- Roswell, New Mexico
- Washington, D.C.
- Las Cruces, New Mexico
- Santa Fe, New Mexico
- Taos, New Mexico

As in the past, it is the constant aim of the Printing Plant to operate more efficiently and give the best of service to all concerned.