Next Meeting Dates

Mr. Layman called attention to the next meetings of the Board's Committees to be held at Portland State University on Monday and Tuesday, January 4-5, 1971, and the next regular Board meeting to be held January 25, 1971, also at Portland State University.

Resolution Honoring Mr. Herman Oliver

Mr. Layman reported that Mr. Herman Oliver had passed away earlier in the week. He said that Mr. Oliver had been a long-time member of the Board and active in other state affairs. He asked Mr. Holmes to present the following resolution for consideration by the Board:

RESOLUTION OF THE OREGON STATE BOARD OF HIGHER EDUCATION ON THE EIGHTH DAY OF DECEMBER, 1970

. In Memory of Herman Oliver

We, the present members of the State Board of Higher Education, today pause to honor the memory of Herman Oliver, one of the pioneering architects of Oregon's unified system of higher education.

The citizens of Oregon -- and especially the thousands who have been touched by the dynamics of higher education -- owe admiration, respect and gratitude to the late Mr. Oliver for:

---His 23 years as a member of the Board, spanning from 1929, when the original Board was created, to 1957 through various appointments by three different governors and constituting the greatest number of years of Board membership of any appointee.

---His long-time service on the Board's Finance Committee, dedicated to sound management and visionary planning for excellence in higher education opportunity.

---His many other activities -- in agriculture, commerce, and public service -- which focused on the importance of higher education to his area, to the entire state, and to society.

In view of these and many other contributions to the growth of higher education, we take pride in serving on a Board with which Mr. Oliver was so long associated -- and in continuing to plan for the future of Oregon Higher Education, upon which he left great impact.
Upon motion by Mr. Holmes, the Board adopted the resolution as presented and directed that a copy of the resolution be sent to the members of Mr. Oliver's family.

Long-Range Planning

The Chancellor said that long-range planning will be one of the most important issues pertaining to higher education which the Board and the people of Oregon will have to consider during the next year or two. He said that it would be helpful to obtain reactions from the Board members and others present in terms of questions or comments which affect some of the proposals which will be presented to the Board in the near future. The Chancellor stated that early in 1971 recommendations would be brought to the Board concerning the ultimate size and enrollment limits for each of the institutions in the State System, together with a timetable for reaching those limits. He asked for a discussion of the following questions:

1. What should be the limits on institutional size, keeping in mind the characteristics of the several institutions?

2. Should the larger institutions increase at all in size?

3. What should be the limits on enrollments in the state colleges?

4. Should the limits be the same in Ashland as in La Grande?

5. What is the anticipated impact on other colleges and universities in Oregon when and if the State System imposes arbitrary enrollment limits?

6. Should the enrollment limits be in terms of fall term headcount, fall term full-time-equivalent students, or three-term-average full-time-equivalent students?

7. If enrollments are to be curtailed, what should be the means of controlling them -- higher admission standards; first-come, first-served basis; or some combination of these?

8. What about nonresident students?

Mr. Mosser said that at the end of the 1963 Legislative Session he had recommended that the University of Oregon and Oregon State University be limited to 12,000, Portland State University to 20,000, and the regional colleges to 6,000 students. He said times have changed but that he believed there are real problems connected with the size of the institutions and that he would be inclined to favor the establishment of ceilings at the three major institutions of 15,000 fall term, full-time-equivalent students. Mr. Mosser pointed out that the period 1971-1980 will still show an increasing total number of students in colleges but that this situation may not continue beyond 1980.

Mr. Mosser said that he would like to see the size of Eastern Oregon College increased because he believed that it would be more efficient if it were larger. He said attention should be given also to polytechnic colleges, to the expansion of the four-year technical programs at Oregon
Technical Institute, and to the development of upper-division polytechnic courses in the Portland metropolitan area so that students enrolled in the metropolitan two-year college technical programs will have an opportunity to complete four-year programs.

Mr. Mosser said that he would be reluctant to change the grade-point-average requirement for admission in order to control enrollments but that he would prefer to see some form of admissions screening on an individual basis that would provide an opportunity for admission to disadvantaged students or others with unusual promise who did not meet grade-point-average requirements.

Mr. Mosser concluded by saying that the fundamental question is what type of institutions will be built, where they will be, of what size, and how will the enrollment process be controlled.

Mr. Stewart agreed with the suggested limit of 15,000 for the major institutions. He said that in his opinion the specific questions posed by the Chancellor could be answered best by indicating broad policy to the administrators and seeking their advice on ways to implement that policy.

Mr. Stewart commented that many of the private colleges are in financial difficulties and suggested that limitations in enrollments in the State System institutions might benefit these schools. He said that the Legislature could be asked to consider providing a subsidy to these schools or perhaps operating one of them rather than to create a new school.

Mrs. Johnson said that it must be recognized in the long-range planning that what is done in the State System affects other segments of education. She said that a joint committee composed of members of the Educational Coordinating Council, the Board of Education, and the Board of Higher Education should consider these implications. Research responsibilities should be tied to the manpower needs to the extent that these can be forecast.

Mrs. Johnson said that, in her opinion, the basic question is whether the institutions are going to continue essentially the same programs or develop a different approach. She referred to centers of learning, different structures, different admission requirements, study centers, and other new approaches which are currently being discussed in higher education.

With respect to admission requirements, she indicated that perhaps high school grades should be combined with some form of predictability scoring. She said also that the requirements as presently stated or proposed may result in the Admissions Office becoming a policy-making body for the institutions by controlling the persons who are admitted.
Mr. Corey said that Oregon State University and the University of Oregon probably are large enough but that setting institutional limits seems to be rather arbitrary. He said he would prefer to set an enrollment limit for these schools which would permit some expansion rather than to freeze enrollments at the present level. He said that Eastern Oregon College has the capacity for more students and that perhaps they could be attracted by some reduction in tuition or by some expanded programs for undergraduates.

Mr. Holmes said that he agreed with the previous statements that size can become too great and that it would be necessary for the Board to make some assumptions if it were to project and limit the size of institutions before understanding what kinds of changes may take place. He said he was intrigued by a possibility mentioned in the Carnegie Report that degrees could be awarded at the end of three years rather than four, and that there may be many changes during the next few years. Mr. Holmes said he would favor a discussion of some of the possible innovations before enrollment limits are set. He said that when limits are set it was his opinion that Portland State University probably should be at a higher level than Oregon State University and the University of Oregon because of urban growth and urban demands.

Mr. Mosser commented that there is a need for innovation in academic programs but that he thought perhaps the size limit should be set first in order to insure a more careful scrutiny of the programs being offered and proposed. He said that in limiting the size of the major institutions it may be necessary to consider upper-division work as their primary responsibility within the whole structure of state institutions and community colleges. Mr. Mosser indicated that the three-year degree should be considered along with either placement by tests or full recognition of advanced placement courses in high school and combining the freshman and sophomore years into one year of exploratory work before the student enters a major field.

Mr. Mosser commented that ultimately Portland State University in a metropolitan setting will be the largest institution in the state. He said that at this point, however, the major need in the metropolitan area is the polytechnic upper-division program and that rather than to focus on expanding Portland State University in the next decade, he would give priority to the creation of the polytechnic college opportunity in the metropolitan area.

Mr. Joss said that he would be hesitant to set a limit for any of the universities that is very close to their present enrollments. He said there should be more flexibility than would be possible if the limits were set at the present enrollments and that any limits which are established should be consistent with the plans now under way for needed development at the institutions rather than an arbitrary freezing of the enrollments at the current levels. Furthermore, any limits should be recognized as being subject to change.

Mr. Joss pointed out that motivation is a very strong factor in a person's success and that he would be reluctant to see a premium placed on the inexact science of testing a person's capacity for education on the basis of high school grades.
Mr. Joss said he was very much in favor of upper-level technological or polytechnic training in the metropolitan area. He also indicated that the nonresident matter is a very difficult one because the institutions benefit by having students from other locations.

Mrs. Johnson said that she would like to have comments from the institutional executives concerning the possibility of some students entering college after one or two years of employment or other activity instead of entering immediately after graduation from high school as a possible means of making the enrollment picture more predictable.

Mr. Snider said he would be interested in hearing some concrete evidence as to the need for imposing these enrollment ceilings and stated further that when arbitrary ceilings are imposed it will be necessary for the Board to withstand constant pressures in maintaining those ceilings.

President Clark said that concrete evidence is difficult to obtain but that it was his personal impression that size has something to do with personal relationships. Unless there is some means of developing inner communities within the institution, the students get lost and in some measure alienated. Therefore, he said his inclination would be to restrict the enrollments. However, if the size is limited, the flexibility for any kind of innovation or internal growth or change is immediately removed, and there is a genuine danger in a static institution. He pointed out that staff promotions are based in some measure upon assumptions of growth. Restrictions in size should take into account the necessity of providing some funds for internal flexibility.

President Clark stated that the institutions plan for students on the basis of the statistics that are available to them. He said he believed there are students who come to the institutions who should not be in college or who should delay their entrance for a period of time, but the institutions are not responsible for their coming. He said many outside pressures compel these students to go to college and that this is a problem much larger than the university itself.

He suggested that there is a need to develop a number of possible alternatives to entering college such as voluntary national service or special programs in the business community.

President Clark said that he would hope that entrance requirements would not be set so high that it would be extremely difficult to get into the university. He said that the recommendation of the University of Oregon committee on admission had been misunderstood and indicated the recommendation had three parts: (1) alternative admission for students who have a grade-point-average of 3.00; (2) admission for students who have done well in some areas but who do not have the 3.00 average; and (3) admission of minority or disadvantaged students with high motivation.
President Clark concluded by saying that alternate ways of growth should be explored before enrollment ceilings are set. He referred to satellite college programs in which students are registered in a small college and commute to a larger nearby institution. This avoids the duplication of expenses otherwise provided in the larger institution.

President MacVicar said he would prefer to avoid enrollment ceilings if possible. He said he would support the suggestion that there be a study of the total educational program in cooperation with other agencies responsible for post-high school education.

President MacVicar said that the need is very great for persons with additional education and training beyond the secondary school but who would not be going into conventional programs in higher education.

He said there is a relationship between the size of an institution and the community in which it is located and that some communities can accommodate a larger institution than others. He said that to assume that all institutions of a certain category, such as state colleges, should be the same size, when some are located in very small communities and some in larger ones, is unwise.

President MacVicar stated that planning without limits is very difficult but that it is also difficult to establish rigid, final, fixed figures for enrollment ceilings without information concerning the missions of the institutions and the manpower requirements of society.

He concluded with the suggestion that target figures be set for 1980, recognizing that from 1980 to 1990 it is unlikely that there will be a major increase in the number of students to be served.

President Wolfe commented on his recent visit to institutions of higher learning in the Republic of West Germany. He referred particularly to the extensive financial support provided to these institutions.

President Wolfe indicated that the future and size of the institutions depend far less on numbers than on other matters such as the theory and philosophy of education. He said he felt that there should be exploration of the barriers between the various systems of education, the theories of education and the social goals that are now incorporated into the educational system. He stated that access to education is a basic social problem. He suggested that the calendar should be examined with a view to running the institutions a much longer day and a much longer year. It would also be helpful if the students, parents, and business community were consulted in the planning in order to determine what is really needed in terms of higher education.

President Wolfe concluded by saying that it is unfortunate to be planning for the 1970's in the midst of a depression in higher education, because planning depends on the state of the economy, and the economy
in higher education is very bad. The levels of support are very low at a time when demands on use perhaps have never been greater. However, he indicated that out of depression a lot of hope can be found because careful planning in the midst of a shortage of resources may result in new discoveries that would not have developed from a period of affluence.

President Layman said that the discussion of long-range planning would be continued at a subsequent meeting with statements from the other schools.
Personnel Adjustments & Appointments

It was recommended that the following personnel adjustments and appointments as submitted by the Institutional Executives concerned be approved, the necessary funds being provided in the 1970-71 budgets, or as indicated. Unless otherwise stated, appointments and adjustments in salary, rank, title and months of service are effective October 1, 1970. (See discussion and Board action following the personnel items.)

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<tr>
<th>Budgeted Name, Rank, and/or Title, Department</th>
<th>Present Service</th>
<th>Recommended Salary Rate</th>
<th>Source Salary Rate of Funds</th>
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<tr>
<td>Mr. Thomas G. Zinn, Gilliam County Extension Agent</td>
<td>12 $12,588 $15,048</td>
<td>Grant</td>
<td>(Change in assignment to Summer Fallow Specialist in Turkey Wheat Production Project with increased responsibility; effective October 15, 1970.)</td>
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<tr>
<td>Mr. Wilmer H. Post, Assistant Placement Director</td>
<td>12 13,020 13,660</td>
<td>Budget</td>
<td>(Increased responsibilities with appointment as Assistant to the President, with rank of Assistant Professor; effective November 1, 1970.)</td>
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<tr>
<td>Dr. Virgil H. Freed, Professor, Department of Agricultural Chemistry</td>
<td>12 24,984 27,689</td>
<td>Budget &amp; Grant</td>
<td>(To retain his services.)</td>
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University of Oregon

| Mr. Paul M. Lewis, Associate University Editor with rank of Assistant Professor, Lecturer in Romance Languages | 12 11,127 12,000 | Budget | (Increased responsibilities as Acting University Editor; effective September 1, 1970.) |
| Mr. Arthur L. Bowers, Assistant Director, Division of Student Services Research | 12 13,308 13,808 | Budget | (Appointment as Director, Division of Student Services Research; effective September 16, 1970.) |
| Mr. Johnny Holloway, Executive Assistant for Minority Relations and Program Development | 12 12,796 15,500 | Budget | (Designation as Director, Support Services; increase from half to full time; effective September 16, 1970.) |
| Dr. Glen A. Love, Associate Professor of English | 9 14,400 15,300 | Budget | (Appointment as Associate Dean of the Graduate School; effective September 16, 1970.) |
| Dr. Gerald R. Patterson, Professor of Education and Psychology | 9 17,666 18,200 | Grant | (Increase provided in grant; effective September 16, 1970.) |
Budgeted Name, Rank, and/or Title, Department

Mr. Robert C. James, Professor of Art

Dr. Paul S. Holbo, Associate Professor of History

Mr. William Bowerman, Professor of Physical Education, Head Track Coach

University of Oregon Medical School

Dr. Paul N. Herman, Assistant Professor of Otolaryngology

Dr. Howard Mason, Professor of Biochemistry

Dr. Donald Wood, Assistant Program Director of the Clinical Research Center and Assistant Professor in Surgery Research

Dr. Laurel G. Case, Assistant Professor, Division of Family Practice

Portland State University

Mr. William C. Neland, Associate in Planning Office

Oregon Technical Institute

Mr. David M. Hull, Assistant Professor, Civil Engineering Technology

Mr. George L. Crowe, Assistant Professor, General Studies

Division of Continuing Education

Dr. Harold Bernard, Professor, Continuing Education Specialist

<table>
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<th>Service</th>
<th>Present Salary Rate</th>
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<th>Source of Funds</th>
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<td>$ 13,056</td>
<td>$ 15,700</td>
<td>Budget (Designation as Department Head; effective January 1, 1971.)</td>
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<tr>
<td>9</td>
<td>14,048</td>
<td>14,548</td>
<td>Budget (Half-time appointment as Associate Dean of the College of Liberal Arts.)</td>
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<tr>
<td>9</td>
<td>17,723</td>
<td>18,000</td>
<td>Budget (Designation as Assistant Athletic Director, Professor of Physical Education, and Head Track Coach; effective September 16, 1970.)</td>
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<td>14,500</td>
<td>15,000</td>
<td>Grant (Increase provided in grant; effective August 1, 1970.)</td>
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<td>Grant (Increase provided in grant; effective September 1, 1970.)</td>
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<tr>
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<td>25,500</td>
<td>Grant (Increased responsibilities in Research Center.)</td>
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<td>12</td>
<td>25,000</td>
<td>30,000</td>
<td>Grant (Promotion to Associate Professor with added responsibilities; increase provided in grant.)</td>
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<tr>
<td>12</td>
<td>15,600</td>
<td>16,800</td>
<td>Budget (Change in position to Director of Physical Plant Operations; effective October 1, 1970. Note: Recommendation from PSU was dated September 25, 1970.)</td>
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<td>12,276</td>
<td>12,582</td>
<td>Budget (Completion of additional degree requirements; effective September 16, 1970.)</td>
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<tr>
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<td>12,582</td>
<td>12,906</td>
<td>Budget (Completion of additional degree requirements; effective September 16, 1970.)</td>
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<td>9 to 10</td>
<td>17,037</td>
<td>18,930</td>
<td>Budget &amp; Grant (Increased responsibilities; effective August 15, 1970.)</td>
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The Board approved the recommendations as presented, with the understanding that a report would be made to the Board concerning the staff members who are engaged in student services and campus security. The report would include the number of people involved, their rank, salary, and duties, together with an indication of any teaching duties which they might perform.
The following gifts and grants to the institutions have been approved for acceptance and expenditure by the institutions and the Board's Office in accordance with Board action on January 27-28, 1964. It was recommended that the Secretary of the Board be authorized to make suitable acknowledgement to the donors and grantors. The Board approved the recommendation as presented. (See page 939 for discussion.)

**Oregon State University**

**American Cancer Society; Oregon Division**

Grant of $4,043 from the American Cancer Society, Oregon Division, Portland, for research entitled "The Role of Tandemly Repetitions DNA Sequences in the Selective Amplification of the Genome of Drosophila Melanogaster," October 1, 1970, through March 31, 1971, under the direction of Dr. John A. Kiger, Jr., Assistant Professor of Biochemistry and Biophysics.

**Bureau of Land Management**

Grants totaling $3,114.47 from the Bureau of Land Management, for research, as follows:

1. $2,496.36 - "Environmental and Biochemical Effects of Herbicides Used in Reforestation," under the direction of Dr. Michael Newton, Associate Professor, Forest Research Laboratory.

2. $618.11 - "Development of Principles of Chemical Silviculture," under the direction of Dr. Michael Newton.

**Columbia County Community Action Team**

Grant of $20,000 from the Columbia County Community Action Team, Scappoose, to "provide for the continuation of the Emergency Food and Medical Program," July 1 through December 31, 1970, under the direction of Miss Patricia Werth, Extension Department.

**Duke University**

Grant of $5,500 from Duke University, Durham, North Carolina, "to pay costs for salaries, wages, materials and other expenses for the conduct of a Junior Science and Other Humanities Symposium," August 20, 1970, through April 17, 1971, under the direction of Dr. Thomas P. Evans, Assistant Professor of Science Education.

**Mid-Willamette Valley Community Action Agency, Inc.**

Grant of $21,952 from the Mid-Willamette Valley Community Action Agency, Inc., Salem, "for the conduct of an Emergency Food Educational Program," October 1, 1970, through February 28, 1972, under the direction of Mr. John Hansen, Polk County Staff Chairman.

**National Aeronautics & Space Administration**

Grant of $30,000 from the National Aeronautics and Space Administration, Washington, D.C., for research entitled, "Instrumental Activation Analysis of Rare Earths and Other Elements," September 1, 1970, through August 31, 1971, under the direction of Dr. Roman A. Schmitt, Associate Professor of Chemistry.

**National Council of the Paper Industry**

Grant of $5,062.50 from the National Council of the Paper Industry, New York City, for "Cooperative Research on Aquatic Biology," July 1 through September 30, 1970, under the direction of Dr. James G. Knudsen, Assistant Dean of Engineering.
Grants totaling $178,398 from the National Science Foundation, Washington, D.C., for research, training programs, and other purposes, as follows:

1. $106,838 - "Academic Year Institute," October 21, 1970, through October 31, 1972, under the direction of Dr. S. E. Williamson, Head, Science Education.


4. $13,630 - "Research Participation in Chemistry for College Teachers," October 16, 1970, through September 30, 1971, under the direction of Dr. James H. Krueger, Associate Professor of Chemistry.


6. $21,600 - "Science Advice to Oregon State Government," October 15, 1970, through October 14, 1971, under the direction of Mr. R. M. Alexander, Director, Air Resources Center. This research concerns the formulation of public policy regarding the side effects of new technologies in an expanding population and economy.


Grant of $12,000 from the U. S. Navy Department, Office of Naval Research, Arlington, Virginia, for research entitled, "The Rate of Conversion of Vibrational Energy into Translational Energy," July 1969 to July 1971, under the direction of Dr. John C. Decius, Professor of Chemistry.
Grant of $167,000 from the U. S. Navy Purchasing Office, Washington, D.C. for payment of tuition and fees for Naval ROTC students, July 1, 1970, through June 30, 1971, under the direction of Mr. H. K. Moulthrop, Commanding Officer, Naval ROTC Unit.


Grant of $87,308 from the U. S. Office of Education, Washington, D. C., for "The In-Service Training Program for the Teachers Corps," April 7, 1969, through June 30, 1971, under the direction of Mr. Ronald G. Petrie, Director of Teacher Corps.

Grants totaling $128,862 from the U. S. Public Health Service, Washington, D. C., for research, fellowships, and other purposes, as follows:

1. $1,000 - "Postdoctoral allowance in behalf of Rodney J. Croteau," September 16, 1970, through September 15, 1971, under the direction of Dr. W. D. Loomis, Professor of Chemistry.

2. $2,221 - "Valence Isomerization of Dihydropyridines," September 1, 1969, through March 31, 1971, under the direction of Dr. Elliot N. Marvell, Professor of Organic Chemistry.

3. $5,100 - "Predoctoral Fellowship Award in behalf of Joseph L. Maloney," September 1, 1970, through August 31, 1971, under the direction of Dr. Harry K. Phinney, Professor of Botany.

4. $18,027 - "Research on Fluorescence Studies of Enzyme Structure and Function," November 1, 1970, through October 31, 1971, under the direction of Dr. Sonia R. Anderson, Assistant Professor of Biochemistry and Biophysics.

5. $42,179 - "Metabolic Changes Induced by Tumor Virus," September 1, 1970, through August 31, 1971, under the direction of Dr. George Beaudreau, Associate Professor of Agricultural Chemistry.


7. $190 - "Predoctoral fellowship in behalf of John A. Jaksch," August 14 through December 31, 1970, under the direction of Dr. Herbert Stoevener, Department of Agricultural Economics.
8. $19,211 - "Career Development Award in the Field of Agricultural Chemistry for Dr. G. S. Beaudreau," September 1, 1970, through August 31, 1971, under the direction of Dr. V. H. Freed, Head, Agricultural Chemistry.

West Coast Lumber Inspection Bureau

Grant of $1,600 from the West Coast Lumber Inspection Bureau, for research entitled, "Disposal of Wood and Bark Wastes by Incineration or Alternative Methods," under the direction of Mr. S. E. Corder, Associate Professor, Forest Research Laboratory.

Western Wood Products Association

Grant of $3,150 from the Western Wood Products Association for research entitled, "Disposal of Wood and Bark Wastes by Incineration or Alternative Methods," under the direction of Mr. S. E. Corder.

Grants to the several Agricultural Experiment Station departments and divisions for research work and other purposes from various donors, as follows:

American Potash and Chemical Corporation

$2,500 - "Potato Plant Nutrition Studies," under the direction of Dr. T. L. Jackson, Professor of Soils.

Dow Chemical Company

$1,700 - "To assist in the range beef cattle nutrition research," under the direction of Dr. R. J. Raleigh, Professor of Animal Nutrition.

Herman Frasch Foundation

$2,500 - "A Study of the Effect of 2,4-D on Protein and Nucleic Acid Biosynthesis," under the direction of Dr. R. O. Morris, Assistant Professor of Chemistry.

Geigy Chemical Corporation

$350 - "Onion Soil Fertility Experiment and Chemical Analyses of Plant Samples," under the direction of Dr. T. L. Jackson, Professor of Soils.

Miller-Morton Company

$24,000 - "Parasites on Pets," under the direction of Dr. R. L. Goulding, Associate Professor of Entomology.

U. S. Bureau of Commercial Fisheries

$2,516 - "Effects of Logging on Salmon Populations in Coastal Streams," under the direction of Dr. J. D. Hall, Assistant Professor of Fisheries.

University of Oregon

Scholarships & Fellowships

Gifts totaling $49,964.25 from the following donors for scholarships and fellowships:

- Aloha Park Parent-Teacher Association, Aloha
  $ 150.00
- Alpha Omega Foundation, Inc., Berkeley, California
  $ 569.00
- Altrussa Scholarship, Albany
  $ 200.00
- Altrussa Club, Pendleton
  $ 300.00
- American Association of University Women, Coos Bay
  $ 300.00
- American Institute of Architects Foundation Scholarship Program, Washington, D.C.
  $ 500.00
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<th>Institution</th>
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<td>American Legion Auxiliary, Coos Bay</td>
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<td>Bates Plywood Co., Inc., Merlin</td>
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<td>Jim Beam Memorial Scholarship, Chicago, Illinois</td>
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<td>Bend Senior High Letterman's Club, Bend</td>
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<td>Ralph Bronson Memorial Scholarship Fund, Hermiston</td>
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<td>Churchill High School Student Body, Eugene</td>
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<td>Science Club Scholarship, Clatskanie High School, Clatskanie</td>
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<td>Confederated Tribes of the Umatilla Indian Reservation (Tribal Scholarship Grant), Pendleton</td>
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<td>Crown Zellerbach Foundation, San Francisco, California</td>
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<td>Evans Scholarships, Golf, Illinois</td>
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<td>Ft. Wayne Rubber and Plastics Group, Des Plaines, Illinois</td>
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<td>Job's Daughter Scholarship, Portland</td>
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<td>Latin American Scholarship Program of American Universities, Cambridge, Massachusetts</td>
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<td>Lions Club, Myrtle Creek</td>
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<td>Bernard Mainwaring Memorial Scholarship, Salem</td>
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<td>Mapleton Parent-Teacher Association</td>
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<td>K. E. McKay of Coos Bay, Inc., Coos Bay</td>
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<td>McKenzie-Willamette Hospital Women's Auxiliary, Springfield</td>
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<td>Miss Oregon Scholarship Pageant, Seaside</td>
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<td>Mt. Tabor Presbyterian Church, Portland</td>
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<td>Nevada State Fireman's Association, Carson City, Nevada</td>
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North American Rockwell, El Segundo, California $ 408.00
Oregon State Elks Association, Salem 600.00
Ophir Parent-Teacher Association, Ophir 500.00
P.E.O. Sisterhood International Peace Scholarship, Des Moines, Iowa 500.00
Phi Beta Patrons, Eugene 800.00
Portland Professional Chapter of Theta Sigma Phi, Portland 100.00
Rainbow Sisters, Tillamook 125.00
S & R Foundation Scholarship, New York City 900.00
South Santiam First Year Scholarships, through the South Santiam Educational and Research Project, Corvallis 301.00
J. W. Stuchell Memorial Scholarship, Portland 1,308.00
Sweet Home Community Scholarship Fund, Sweet Home 200.00
Texaco, Incorporated, Beacon, New York 3,648.00
Frank L. TouVelle Trust Fund, Phoenix 167.00
20-Year Club of the Eugene Register-Guard, Eugene 136.00
U. S. National Bank of Oregon, Salem 160.00
Vancouver Plywood, Grants Pass 500.00

Canadian Medical Research Council Grant of $485.75 from the Canadian Medical Research Council, Ottawa, Canada, for a "supply allowance on behalf of E. C. Vos, Postdoctoral Research Associate," for the 1970-71 academic year, under the direction of Dr. Graham Hoyle, Professor of Biology.

E. St. Louis, Ill., Board of Education Grant of $54,535 from the E. St. Louis, Illinois, Board of Education, E. St. Louis, Illinois, representing a subcontract for services to be provided by the University of Oregon's Headstart Follow-Through Program, June 25, 1970, through August 31, 1971, under the direction of Dr. Wesley Becker, Professor of Education.

Ford Foundation Grant of $74,450 from the Ford Foundation, New York City, "to enable two Ph.D. candidates to write a dissertation in the field of ethnic studies," October 1, 1970, through September 30, 1971, under the direction of Dr. Leona E. Tyler, Dean of the Graduate School.

National Aeronautics & Space Administration Grants totaling $60,427 from the National Aeronautics and Space Administration, Washington, D.C., for research, as follows:

1. $10,077 - "A Preliminary Photogeological Study of Mars," September 1, 1970, through August 31, 1971, under the direction of Dr. Gordon G. Goles, Associate Professor of Geology.

2. $25,000 - "Seismicity Investigations in the Cascade Mountains, Oregon," April 30, 1970, through April 30, 1971, under the direction of Dr. H. Richard Blank, Professor of Geology.

3. $25,350 - "Activation Analysis of Returned Lunar Samples," September 1, 1970, through January 31, 1971, under the direction of Dr. Gordon G. Goles, Associate Professor of Geology.
Grants totaling $139,279 from the National Science Foundation, Washington, D.C., for research, institutes, training programs, and other purposes, as follows:

1. $3,496 - "In-Service Project To Plan a Program To Meet the Needs of Mathematics Education in Oregon," September 22, 1970, through April 30, 1971, under the direction of Dr. Donald Rasmussen, Specialist in Mathematics Education, and Dr. E. A. Maier, Professor of Mathematics.

2. $102,600 - "Physics of Fluids," October 1, 1970, through September 30, 1972, under the direction of Dr. R. J. Donnelly, Head of the Department of Physics.


Grant of $17,395 from the Nichols Avenue Public School, Washington, D.C., "for services to be provided by the University of Oregon's Headstart Follow-Through Program," August 24, 1970, through June 30, 1971, under the direction of Dr. Wesley C. Becker, Professor of Education.

Grant of $500 from the Oregon Division of Vocational Rehabilitation, Salem, to provide supplemental funds for field training for rehabilitation counselor trainees," July 1 through September 30, 1970, under the direction of Dr. John Loughary, Chairman, Counseling Department, College of Education.

Grant of $49,654 from the Oregon State Employment Division, Salem, "for further development and continued testing of the Occupational Information Access System," October 1, 1970, through September 30, 1971, under the direction of Dr. Norman Sundberg, Dean, School of Community Service and Public Affairs.

Grant of $2,000 from Research Corporation, Burlingame, California, "for purchase of an electronic calculator," October 1, 1970, through September 30, 1971, under the direction of Dr. E. G. Ebbighausen, Professor of Physics.

Grant of $201,433 from the U. S. Atomic Energy Commission, Richland Operations Office, Richland, Washington, for continued support of the "Experimental and Theoretical Nuclear Physics Program," November 1, 1970, through October 31, 1971, under the direction of several staff members in the Department of Physics.

Grant of $22,055 from the U. S. Department of Labor, Washington, D.C., to provide a "Fellowship in Manpower and Computer Technology on behalf of Robert E. Hill," September 1, 1970, through August 31, 1972, under the direction of Dr. Eaton H. Conant, Director of Industrial and Labor Relations.

Grant of $232,748 from the U. S. Office of Economic Opportunity, Washington, D.C., "in continued support of the High School Equivalency Program," September 1, 1970, through August 31, 1971, under the direction of Mr. David Martinez, Project Director.

Grants totaling $395,939 from the U. S. Department of Health, Education, and Welfare, Office of Education, Washington, D. C., for the following projects:

1. $160,060 - "For continuation of the ERIC Clearinghouse on Educational Administration," September 1, 1970, through May 31, 1971, under the direction of Dr. Philip K. Piele, Assistant Professor of Education.

2. $235,879 - "In continued support of the College Work-Study Program," January 1 through December 31, 1971, under the direction of Mr. Karl Streiff, Director of Financial Aids.

Grants totaling $260,278 from the U. S. Public Health Service, Washington, D.C., for research, fellowships, and other purposes, as follows:

1. $190,268 - "Molecular Basis of Control Mechanisms," September 1, 1970, through August 31, 1971, under the direction of Dr. Aaron Novick, Professor of Biology.

2. $1,000 - "Supply allowance on behalf of Nora Laiken," September 1, 1970, through August 31, 1971, under the direction of Dr. John A. Schellman, Professor of Chemistry.

3. $1,000 - "Special supply allowance on behalf of Roger D. Longley," September 1, 1970, through August 31, 1971, under the direction of Dr. Graham Hoyle, Professor of Biology.

4. $5,600 - "Predoctoral research fellowship award on behalf of Robert R. Frost," August 16, 1970, through August 16, 1971, under the direction of Dr. Fred Attneave, Professor of Psychology.
5. $1,000 - "Supply allowance on behalf of Carol A. Gross,"
   August 1, 1970, through July 31, 1971, under the direction
   of Dr. Peter H. von Hippel, Professor, Institute of Molecular
   Biology.

6. $1,000 - "Supply allowance for Jeffery E. Siegel," September 14,
   1970, through September 13, 1971, under the direction of
   Dr. Franklin Stahl, Professor, Institute of Molecular Biology.

7. $1,000 - "Supply allowance on behalf of Joseph L. Lippert,"
   September 1, 1970, through September 1, 1971, under the
   direction of Dr. Warner L. Peticolas, Professor of Chemistry.

8. $5,800 - "Predoctoral fellowship award on behalf of Robert K.
   Pinschmidt, Jr.," October 25, 1970, through October 24, 1971,
   under the direction of Dr. John E. Baldwin, Professor of
   Chemistry.

9. $5,600 - "Predoctoral Fellowship Award on behalf of
   Geoffrey D. White," September 15, 1970, through Septem-
   ber 15, 1971, under the direction of Dr. Stephen Johnson,
   Assistant Professor of Psychology.

10. $5,800 - "Predoctoral fellowship award on behalf of Richard
    A. Block," September 15, 1970, through September 15, 1971,
    under the direction of Dr. Douglas L. Hintzman, Assistant
    Professor of Psychology.

11. $5,100 - "Predoctoral fellowship award on behalf of Kenneth C.
    Hunter," October 1, 1970, through October 1, 1971, under the
    direction of Dr. Paul P. Rudy, Director, Institute of Marine
    Biology.

12. $37,110 - "Reproductive Senescence in the Golden Hamster,"
   November 1, 1970, through October 31, 1972, under the direction
   of Dr. Arnold L. Soderwall, Professor of Biology.

Gifts to the Library:

Gifts to the University of Oregon Library from various donors, as
follows:

H. E. Arnston
Manuscripts and galleys, valued at $400, from Mr. Herbert E.
Arnston, Pullman, Washington. Mr. Arnston is an author of books
for children and young people.

Mrs. H. Arvonen
Additional manuscripts and correspondence, valued at $300, from
Mrs. Helen Arvonen, Sault Ste. Marie, Ontario, Canada. Mrs. Arvonen
is an author of light adult fiction.

F. Bensing
Illustrations and original artwork, valued at $820, from Mr. Frank
Bensing, New York City. Mr. Bensing is an illustrator and painter.

W. R. Cox
Additional manuscript materials, valued at $150, from Mr. William
R. Cox, Sherman Oaks, California. He is an author of teleplays
and screenplays.
Meeting #391-84

Mr. & Mrs. James Daugherty
Additional manuscript and illustration material, valued at $450, from Mr. and Mrs. James Daugherty, Weston, Connecticut. They are nationally-recognized artists, illustrators and authors.

Mr. & Mrs. Roger Duvoisin
A collection of manuscripts for children and young people, valued at $575, from Mr. and Mrs. Roger Duvoisin, Gladstone, New Jersey. They are internationally known writers whose works have taken both national and international awards.

Mr. & Mrs. Elmer Hader
Additional manuscripts and original artwork, valued at $7,620, from Mr. and Mrs. Elmer Hader, Nyack, New York.

Mrs. O. Hayter
Twelve Limited Editions Club publications, valued at $192.50, from Mrs. Oscar Hayter, Dallas. The gift is in memory of Mrs. Irene Hazard Gerlinger.

L. Lowenthal
Pamphlets and broadsides published during the 1930's by various extremist groups, mostly concerning anti-Semitism. The gift from Dr. Leo Lowenthal, San Francisco, California, is valued at $125.

W. McMillen
Addition to collection of professional files concerning economics, publishing, and the farm scene, from Mr. Wheeler McMillen, AnnaMaría, Florida. The gift is valued at $475.

K. W. Porter
Seven cartons of history texts and quality paperbacks, valued at $198.75, from Dr. Kenneth W. Porter, Eugene.

E. C. Robbins
Twenty cartons of books, journals, and pamphlets, mainly dealing with economics, investments, and accounting from Mr. Edwin C. Robbins, Los Angeles, California. The gift was made by Mr. Robbins shortly before his untimely death and was received in June 1970. The gift is valued at $595.40.

Mrs. E. Thomson
Two bound volumes of sheet music, 1834-1900, valued at $200, from Mrs. Evelyn Thomson, Eugene.

R. Trotter
Approximately 150 volumes concerning music, from Dean Robert Trotter of the School of Music, Eugene. The gift is valued at $269.10.

K. Werth
Original artwork and pasted-up dummies for two books, from Mr. Kurt Werth, Bronx, New York. Mr. Werth is an illustrator of children's books. The gift is valued at $700.

R. L. Wiser
Complete testimony, exhibits, etc., of the Civil Aeronautics Board docket No. 16242, Transpacific Route Investigation, from Mr. Ralph L. Wiser, Washington, D. C. Mr. Wiser is the hearing examiner of the Civil Aeronautics Board. The gift is valued at $600.

H. Zeigler
Eleven cartons of books, valued at $246.10, from Mr. Harmon Zeigler, Eugene. The gift includes contemporary fiction, drama, and poetry, as well as works dealing with social and political issues.
University of Oregon Dental School

U. S. Public Health Service
Grants totaling $229,330 from the U. S. Public Health Service, Washington, D.C., for research and training programs, as follows:


2. $187,000 - "Training Grant - Health Professions Educational Improvement Program - Institutional Grant," July 1, 1970, through June 30, 1971, under the direction of Dr. Louis G. Terkla, Dean.

University of Oregon Medical School

Scholarships & Fellowships
Gifts totaling $5,736.26 from the following donors for scholarships and fellowships:

The Allstate Foundation, Skokie, Illinois $ 600.00
Clackamas County Tuberculosis and Health Association, Oregon City 1,500.00
Clackamas County Medical Education Fund, Oregon City 250.00
Daughters of the American Revolution, Oregon State Society, Portland 500.00
Drain Plywood Company, Drain 334.00
Mr. A. J. Jacobs, Eugene 186.76
Leukemia Society of America, Inc., Portland 215.50
The National Collegiate Athletic Association, Kansas City, Missouri 1,000.00
Neah-Kah-Nie High School, Rockaway 150.00
Rogue Valley Physicians' Service Scholarship Loan Committee, Medford 1,000.00

American Cancer Society, Oregon Division
Grants totaling $19,006 from the American Cancer Society, Oregon Division, Portland, for research and other purposes, as follows:

1. $600 - "For the purchase of monograph material in the field of oncology for physicians in the State of Oregon," August 1, 1970, through July 31, 1971, under the direction of Miss Margaret E. Hughes, Librarian.


Baker Police Protective League
Grant of $1,544.20 from the Baker Police Protective League, Baker, "to be used toward the purchase of equipment in the name of Ricky Myers," under the direction of Mr. Gary J. Rood, Administrator to the Medical School Hospital.
Gift of $100 from Mrs. Grover C. Bellinger, Salem, to the Grover C. Bellinger Pulmonary Laboratory Research Fund, under the direction of Dr. Miles Edwards, Associate Professor, Acting Head of the Division of Chest Diseases.

Gift of $500 from the Chi Omega Sorority, Junior Group, Portland, as the annual contribution in support of the Chi Omega Laboratory in the Pediatrics Department, to be used under the direction of Dr. Richard W. Olmsted, Professor and Chairman of Pediatrics.

Gift of $800 from the Chi Omega Sorority, Senior Group, Portland, in continued support of the Chi Omega Laboratory in the Pediatrics Department, under the direction of Dr. Richard W. Olmsted.

Gift of $100 from Dasco, Inc., Oakland, California, for heart research in memory of James H. Hagan, under the direction of Dr. Herbert E. Griswold, Professor and Head of Cardiology.

Gift of a Bausch and Lomb Binocular Ophthalmoscope, valued at $636.25, from the Beaverton Elks Lodge No. 1862, for use in the Children's Eye Clinic, under the direction of Dr. Kenneth C. Swan, Professor and Chairman of Ophthalmology.

Gift of an American Optical Company Gaintscope, valued at $199, from Hillsboro Elks Lodge No. 1862, for use in the Children's Eye Clinic under the direction of Dr. Kenneth C. Swan.

Gift of the following equipment, valued at $2,084.80 from the Milwaukee Elks Lodge No. 2032, under the direction of Dr. Kenneth C. Swan:

$1,757.50 - Representing the value of a Nikon Photo Zoom Bio-Microscope, given in memory of Frank Bisaccio, Harold G. Seaberg, Nellie Poole, and Janeth Peters.

$327.30 - Representing the value of an American Optical Company monocular Ophthalmoscope, given in memory of Keith Arnold.

Gift of a bronze plaque, valued at $598.50, from the Portland Elks Lodge No. 142. The plaque is in memory of Charlotte Buliger.

Gift of $102 from the Employees of Balsiger Motor Company, Klamath Falls, for cancer research in memory of Mr. Elmer H. Balsiger.

Gift of $500 from Miss Marie Louise Feldenheimer, Portland, "to be used by Dr. Robert D. Goldman in the Division of Experimental Medicine," under the direction of Dr. Robert D. Kolter, Professor and Head of the Department of Experimental Medicine.

Gift of $100 from the First National Bank of Oregon, Portland, "to purchase equipment for a recreation room in the Tuberculosis Hospital," under the direction of Mrs. Barbara Hiatt, Assistant Administrator, Tuberculosis Hospital.

Grant of $900 from The Hervin Co., Tualatin, for Animal Care Research, under the direction of Mr. Allan L. Rogers, Director of Animal Care Research.
G. P. Lilley
Grant of $100 from Mr. G. P. Lilley, Baker, for "DMSO Research," under the direction of Dr. Stanley Jacob, Associate Professor of Surgery.

Norwich Pharmaceutical Company
Grant of $300 from the Norwich Pharmaceutical Co., Norwich, New York, for the "Urology Research Fund," under the direction of Dr. Clarence V. Hodges, Professor and Head of the Division of Urology.

Oregon Association of Defense Counsel
Grant of $3,000 from the Oregon Association of Defense Counsel, Portland, "to further postgraduate medical education," under the direction of Dr. M. Roberts Grover, Jr., Associate Dean and Director of Continuing Education.

Oregon State Elks Association
Gift of equipment, valued at $5,123.60 from the Oregon State Elks Association, Tigard, for use in the Ophthalmology Department, under the direction of Dr. Kenneth C. Swan, Professor and Chairman of the Department of Ophthalmology.

Portland Academy of Medicine
Gift of $1,000 from the Portland Academy of Medicine, Portland, to be used for the purchase of books, supplies, materials, and special equipment for the library, under the direction of Miss Margaret Hughes, Professor and Librarian.

A. J. Seaman
Gift of $583.33 from Dr. Arthur J. Seaman, Portland, to be used for Hematology Research, under the direction of Dr. Seaman, Chairman of the Department.

Tektronix Bridge Club
Gift of $200 from the Tektronix Bridge Club, Beaverton, for the unrestricted use of the Crippled Children's Division, under the direction of Dr. Richard L. Sleeter, Director of the Crippled Children's Division.

The Max and Rose Tucker Foundation
Gift of $500 from The Max and Rose Tucker Foundation, Portland, for the use of Doernbecher Hospital, under the direction of Dr. Michael D. Baird, Director and Administrator of Hospitals and Clinics.

U. S. Atomic Energy Commission

U. S. Public Health Service
Grants totaling $697,324 from the U. S. Public Health Service, Washington, D. C., for research and other purposes, as follows:


3. $54,328 - "Reaction of Connective Tissue Cells Corneal to Injury," September 1, 1970, through August 31, 1971, under the direction of Dr. Virginia L. Weimar, Associate Professor of Ophthalmology.


5. $27,544 - "Viral Induced Control of Host Biosynthesis," September 1, 1970, through August 31, 1971, under the direction of Dr. Wallace J. Iglewski, Assistant Professor of Microbiology.

Portland State University

Scholarships & Fellowships

Gifts totaling $9,318.80 from the following donors for scholarships and fellowships:

Air Force Aid Society, Arlington, Virginia $ 800.00
American Business Women's Association, Kansas City, Missouri 600.00
Blitz-Weinhard Foundation, Portland 300.00
Clark College Business Office, Vancouver, Washington 200.00
First National Bank of Oregon, Portland 1,000.00
L. V. Computer Systems, Inc., New York City 725.00
LASPAU, Cambridge, Massachusetts 753.00
George H. Sandy Foundation, San Francisco, California 1,150.00
Saudi Arabian Airlines Corporation, Jeddah, Saudi Arabia 1,790.80
Time, Inc., Rockefeller Center, New York City 2,000.00

Chicago Mercantile Exchange

Gift of $333.33 from the Chicago Mercantile Exchange, Chicago, Illinois, as an unrestricted gift to Security Analysis Research, under the direction of Dr. Donald D. Parker, Dean of the School of Business Administration.

Crown Zellerbach Foundation

Grant of $400 from Crown Zellerbach Foundation, San Francisco, California, for "Conservation of Natural Resources Seminar," August 18 through August 22, 1970, under the direction of Mr. Paul L. Reiling, Coordinator Special Programs, Summer Term.

Institute for Quantitative Research in Finance

Grant of $2,000 from the Institute for Quantitative Research in Finance, New York City, as an unrestricted gift to the Security Analysis Research Center, under the direction of Dr. Donald D. Parker, Dean of the School of Business Administration.

Miller Estate

Gift of recording equipment, valued at $150, from the estate of Mr. Kenneth Miller, for use in the Library under the direction of Dr. Frank Rodgers, Director of the Library.

Mr. & Mrs. G. R. Minshall, Jr.

Gift of geologic maps, charts and folios, valued at $100, from Mr. and Mrs. Glenn R. Minshall, Jr., Beaverton, for use in the Earth Science Department, under the direction of Mr. Leonard Palmer, Assistant Professor of Earth Sciences.
National Science Foundation
Grant of $37,000 from the National Science Foundation, Washington, D.C., for research entitled, "Systematic and Life Cycle Studies of Trematodes," September 1, 1970, through August 31, 1972, under the direction of Dr. Ralph Macy, Professor of Biology.

U. S. Dept. of Health, Education & Welfare
Grants totaling $375,506 from the U. S. Department of Health, Education, and Welfare, Washington, D.C., for research, training programs, and other purposes, as follows:

1. $276,776 - "Funds for Portland State University's participation in the College Work-Study Program," January 1 through December 31, 1971, under the direction of Mr. Bonner Robinson, Financial Aids Officer.

2. $25,300 - "To support the continuation of the Central European Language and Area Center," July 1, 1970, through June 30, 1971, under the direction of Dr. H. Frederick Peters, Director, Central European Studies Center.

3. $20,054 - "Undergraduate Training Proposal," September 1, 1970, through August 31, 1971, under the direction of Dr. Frank Terraglio, Associate Professor of Applied Science.

4. $53,376 - "Medical Sociology in Urban Studies (training grant)," September 1, 1970, through August 31, 1971, under the direction of Mr. James Weiss, Assistant Professor of Sociology.

College of Wooster
Grant of $8,862 from the College of Wooster, Wooster, Ohio, "to provide field placements and interdisciplinary urban studies seminar for Wooster College students during the academic year 1970-71," July 1, 1970, through June 30, 1971, under the direction of Dr. Lyndon Musolf, Director, Urban Studies Center.

Oregon College of Education
Bureau of Indian Affairs
Grant of $1,267 from the Bureau of Indian Affairs, Portland Area Office, Portland, to provide scholarship grants, April 1 through August 31, 1970, under the direction of Mr. John N. Sparks, Director of Business Affairs.

U. S. Dept. of Health, Education & Welfare
Grant of $69,964 from the U. S. Department of Health, Education, and Welfare, Office of Education, Washington, D.C., to provide "NDEA Student Loans," July 1, 1970, through June 30, 1971, under the direction of Mr. John N. Sparks, Director of Business Affairs.

Southern Oregon College
Scholarships & Fellowships
Gifts totaling $49,122.42 from the following donors for scholarships and fellowships:

Abbott Foundation, North Chicago, Illinois $ 440.00
Aid Association for Lutherans, Appleton, Wisconsin 800.00
Air Force Aid Society Educational Fund, Arlington, Virginia 1,700.00
Alpha Delta Kappa, Omicron Chapter, Medford 300.00
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<td>Mr. Clifford Cordy, Medford</td>
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<td>Elks Lodge No. 944, Ashland</td>
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Medford Senior High School, Medford $ 2,498.50
The Carpenter Foundation, through Medford Senior High School, Medford 101.00
National Council of Jewish Women, Kansas City, Missouri 300.00
National Association of Legal Secretaries, Burbank, California 2,000.00
Navy Relief Society, Washington, D.C. 1,000.00
Scholarship Fund of the NCO Wives Club, Loring Air Force Base, Maine 250.00
Oregon Congress of Parents and Teachers, Inc., Portland 588.00
Oregon Nurses Association No. 16, Grants Pass 100.00
Oregon State Elks Association, Salem 125.00
Palm Springs Scoutership, Cathedral City, California 200.00
Leslie S. Parker Memorial Scholarship Committee, Molalla 500.00
Parson's Pine Products, Ashland 100.00
P.E.O. Sisterhood, Chapter A.L., Ashland 162.00
P.E.O. Sisterhood, Klamath Falls Chapter 429.00
Pepsi-Cola Bottling, Medford 142.50
Powers High School 100.00
Rainier Union High School, Rainier 100.00
Lions Auxiliary, Rogue River 500.00
Rogue Valley Manor, Medford 1,651.00
Rogue Valley Memorial Hospital Auxiliary, Medford 2,000.00
Miss Rogue Valley Pageant, Central Point 500.00
Rogue Valley Physician's Service, Medford 625.00
Rogue Valley Quaker Workshop Group, Ashland 100.00
St. Helens Senior High School, St. Helens 100.00
St. Mary's High School, Medford 1,150.00
Sandy Union High School, Sandy 100.00
San Lorenzo High School, San Lorenzo, California 100.00
Smith River Lumber Company, Drain 167.00
Sons of Italy Western Foundation, San Francisco, California 200.00
Soroptimist Club, Ashland 141.00
Southern Oregon Plywood, Grants Pass 333.32
Southern Oregon State Bank, Grants Pass 166.66
The Carpenter Foundation, through Ashland Senior High School, Ashland 2,008.00
Frank TouVelle Scholarship Fund, through Ashland Senior High School, Ashland 132.00
U. S. Treasury Department, Washington, D.C. 7,356.00
Frank TouVelle Scholarship Fund, through Phoenix High School, Phoenix 132.00
Howard Turner Educational Trust, through the U. S. National Bank of Oregon, Portland 400.00
Umpqua Community College, Roseburg 161.00
U. S. Department of the Interior, Bureau of Indian Affairs, Minneapolis Area Office, Minneapolis, Minnesota 300.00
U. S. Department of the Interior, Bureau of Indian Affairs, Juneau Area Office, Juneau, Alaska

U. S. Department of the Interior, Bureau of Indian Affairs, Portland Area Office, Portland

U. S. National Bank of Oregon, Portland

U. S. National Bank of Oregon, Medford

Ventura College Financial Aids, Ventura, California

Woolley Logging Company, Drain

Grant of $8,700 from the U. S. Department of Defense, through the United Service Organizations, Inc., New York City, "to pay for travel expenses for the 'Choraliers' from the Music Department of Southern Oregon College to the Pacific islands for a musical tour," under the direction of Dr. Raymond Tumbleson, Associate Professor of Music.


Eastern Oregon College

Scholarships & Fellowships

Gifts totaling $27,541.33 from the following donors for scholarships and fellowships:

American Legion Post No. 24, Milton-Freewater $ 150.00
Baker Jaycees, Baker 100.00
Boise Cascade Foundation, Inc., Boise, Idaho 300.00
Bureau of Indian Affairs, Portland Area Office, Portland 12,625.00
Burns Mother's Club, Burns 200.00
Confederated Tribes of the Umatilla Indian Reservation, Pendleton 6,050.00
The Confederated Tribes of the Warm Springs Reservation of Oregon, Warm Springs 4,100.00
Elks Lodge No. 1829, Enterprise 400.00
Elks National Foundation, Chicago, Illinois 800.00
Dr. T. L. Hyde, The Dalles 100.00
International Order of Rainbow for Girls, Tillamook 250.00
La Grande Lodge No. 41, A.F. & A.M., La Grande 408.00
The Lincoln County Foundation, Newport 250.00
Lions Club, Enterprise 700.00
Nolalla Union High School 150.00
Roseburg Senior High School, Roseburg 125.00
Rotary Club, Pendleton 300.00
Sherman County Scholarship Association, Moro 200.00
Umatilla Public Schools, Umatilla 100.00
Confederated Tribes and Bands, Yakima Indian Nation, Toppenish, Washington 233.33
Oregon State
Dept. of
Education

Grant of $106,803.32 from the State Department of Education, Salem, "to support the cost of a program to provide a background of expertise for teachers of migrants," September 1, 1970, through September 1, 1971, under the direction of Mr. Theodore C. Brown, Assistant Professor of Spanish.

Oregon Technical Institute

Scholarships & Fellowships

Gifts totaling $4,301 from the following donors for scholarships and fellowships:

Aid Association for Lutherans, Appleton, Wisconsin $ 200.00
Bernard Daly Educational Fund, Lakeview 240.00
Bureau of Indian Affairs, Portland Area Office 800.00
Elks Lodge No. 1664, Toledo 150.00
Mr. Marshall Glos, Sandy 250.00
Henley Parents and Patrons Club, Klamath Falls 100.00
Jackson Foundation, through the U. S. National Bank of Oregon, Portland 1,000.00
Kiwani Club, Klamath Falls 136.00
Klamath Union High School Girls Recreation Association, Klamath Falls 100.00
Mt. View Hospital, Madras 408.00
OTT Faculty Wives and Women's Club, Klamath Falls 150.00
Rogue Valley Physicians' Service, Medford 250.00
Silverton Junior Women's Club, Silverton 150.00
South Santiam Educational and Research Project, through the Oregon State University Foundation, Corvallis 167.00
Sweet Home Community Scholarship Fund, Sweet Home 200.00

Ford Motor Company, Tractor & Implement Division

Gift of equipment, valued at $4,800, from the Tractor and Implement Division, Ford Motor Company, Klamath Falls, for use in the Auto-Diesel Department.

U. S. Dept. of Health, Education & Welfare

Grants totaling $63,674 from the U. S. Department of Health, Education, and Welfare, Office of Education, Washington, D.C., for loans and training programs, as follows:


2. $21,359 - "College Work-Study Program," January 1 through December 31, 1971, under the direction of Dr. Terrance R. Brown.

U. S. Dept. of the Interior

Grant of $1,510 from the U. S. Department of the Interior, Bureau of Indian Affairs, Juneau, Alaska, "to provide grant funds for Mr. Laurence Inga and Mr. Arnold Garner," under the direction of Mr. Terrance R. Brown, Director of Financial Aids.

T. J. Orr

Gift of $150 from Mr. Thomas J. Orr, Klamath Falls, for the purchase of equipment for the Computer Center, under the direction of Mr. Paul Chitwood, Chairman, Electro-Mechanical Engineering Technology.
Division of Continuing Education

Office of the Governor of Oregon

Grant of $2,125 from the Office of the Governor of Oregon, Economic Development Division, Salem, "to conduct a State Housing Conference to inform registrants of local, state and federal efforts to provide housing for Oregonians, including effective housing authority activity, proposed building code, financing legislation and the many Housing and Urban Development programs to assist housing," October 22 through December 21, 1970, under the direction of Dr. Kenneth Waldroff, Head, Office of Continuing Education.

Teaching Research Division

Mid-Willamette Valley Council of Governments

Grant of $2,400 from the Mid-Willamette Valley Council of Governments, Salem, "to provide 20 days of professional consulting time to conduct an evaluation of the Community Liaison Program to determine the extent to which it has attained its objectives," September 22, 1970, through June 30, 1971, under the direction of Mr. F. L. Paulson, Assistant Professor of Research.

Research Council of Great City Schools

Grant of $4,568 from The Research Council of the Great City Schools, "to conduct a training institute for research personnel of the Council Research Departments," under the direction of Mr. Dale G. Hamreus, Research Professor.

Oregon Mental Health Division

Grant of $153,721 from the State of Oregon Mental Health Division, Salem, "to fund a study which will design, develop, and test instructional materials to establish in high school students appropriate, safe attitudes toward drinking and driving," September 30, 1970, through June 30, 1973, under the direction of Miss Helen L. Farr, Assistant Research Professor.

U. S. Dept. of Health, Education & Welfare


In response to a question from Mr. Stewart, it was indicated that regularly at the close of each fiscal year a summary analysis of gifts and grants is provided to show amounts from each source.

ADJOURNMENT

The Board adjourned at 12:25 P.M.

George H. Layman, President

R. L. Collins, Secretary
APPENDIX

SUPPLEMENT A  -  Proposed Bio-Social Colony at University of Oregon -- Statement prepared by Dr. Romney, dated December 8, 1970

SUPPLEMENT B  -  Administrative Code References Omitted from Proposed Administrative Rules
Proposed Bio-Social Colony at
University of Oregon

Relationship of the Proposal to Curricular Allocations at UO

The three curricular areas specifically interested in the establishment of the facilities for the bio-social colony are: psychology, biology, anthropology.

The university has had the major allocation in psychology and anthropology since the first allocations were made by the state board of higher education to the institutions in 1932. The University of Oregon is the only institution in the state system authorized to offer a full range of degree programs (baccalaureate, master's, doctor's) in psychology and anthropology. The only other institution in the state system authorized graduate programs in these two fields is Portland State University, which is authorized master's programs, and the UO Medical School, authorized master's and doctor's programs in medical psychology.

As to biology, the University of Oregon has had a major allocation in science since 1942, under which they have been authorized to offer a full range of programs (baccalaureate, master's, doctor's) in a number of the sciences, including biology.

As the university has developed its programs - both undergraduate and graduate - it has sought to bring them to a state of quality consistent with the charge given the university by the board.

Research Integrally Related to Graduate Education. In graduate education, research and teaching are inseparably united. High quality graduate instruction cannot exist in the absence of effective research programs. Recognizing this fact the university has: (1) sought to develop research programs of substance, and (2) taken the position that since its most important function is instruction, research capabilities developed at the university must be related to and turned to the advantage of the instructional program. Thus it is that in anthropology, biology, and psychology faculty members engaged in research are teaching - many of them with some courses at the lower-division level.

UO Programs Beneficiaries of Major Federal Grants. As the university has developed its capabilities in response to the curricular authorizations given it by the board, its programs have achieved a quality that has come to the attention of federal agencies disposing of large federal funds.

For instance, when the National Science Foundation (NSF) in the mid-60's made a limited number of large institutional science development grants to institutions that were on the threshold of attaining national stature in these fields, the university was one of these. Under this grant, given in 1965, and covering a period of four years, the university was given $4,160,000 for a program of science improvement and development. Units of the university which benefited from this grant were: physics, chemistry, biology, mathematics, the institute of molecular biology, social sciences, institute of theoretical science, and the science library. It was this grant that made possible the statement by the board's office.
the establishment of the university's computer center. When the foregoing
grant ran out, the NSF provided a supplementary two-year grant beginning January
1, 1969, and totaling $2.7 million. Geology and the Center for Volcanology
were included in this supplementary grant.

Likewise, when the National Institutes of Health (NIH) gave grants to a half
dozzen or so institutions to advance them more rapidly toward national stature
in the life sciences than they could otherwise move, the University of Oregon
was one of these. It is this grant that is of particular relevance to the
bio-social colony presently under discussion by the board.

The NIH grant to the university was made in 1967. A five-year grant, it amounted,
in the aggregate, to $2.2 million. These funds could be expended for staff,
equipment, travel, technical assistance, expendable supplies, and other
justifiable costs.

The departments involved in the grant are: biology, chemistry, psychology,
and the institute of molecular biology (which institute unites biologists
and chemists in a united attack on problems which will yield only to the
combined efforts of these two disciplines).

The foregoing disciplines were at the time, and have been since, involved in
teaching and research of an interdisciplinary character in the life sciences,
centered in the following interdisciplinary fields:


b. Developmental biology.

c. Neuro-biology (including behavioral studies).

What the foregoing grant has done is to inject a pulse of money into these
interdisciplinary fields to enable teacher-scholars to make advances in the
teaching and research, and the training of student-scholars who are in
preparation to become the teacher-scholars that will be needed in the future.

Although there are dangers in trying to draw too sharp a line between basic
and applied research, it is probably not inaccurate to say that the research
programs at the university in the foregoing fields are essentially basic
research programs. It is important to note, however, that without basic
research discoveries, applied research developments would shrink or dry up
altogether.

In the development of these interdisciplinary programs, the following kinds
of interdisciplinary teams have been developed at the University of Oregon:

a. Molecular biology - 5.0 FTE biology
                           5.0 FTE chemistry

b. Developmental biology - 4.0 FTE - animal development
                           5.0 FTE - plant development

c. Neuro-biology - 2.5 FTE - biology
                           4.0 FTE - psychology
Additional staff are shortly to be added in molecular biology and in neurobiology.

**Relationship of the Proposed Colony to the Quality of Instruction at UO**

It should be emphasized that the proposed colony is designed to serve both teaching and research functions. In graduate education, as we have noted, teaching and research are inextricably bound together. But this colony is designed to have an impact on the quality of undergraduate teaching as well, in at least two ways:

1. Students from undergraduate courses, in some instances lower-division courses, will gain a new sense of reality in their studies from the observations that will be open to them on an organized, systematic basis in the bio-social colony. Typical of the undergraduate courses that it is expected will use the resource for observation and study purposes are the following:

   a. Bi 103 General Biology
   b. Psy 213 Physiological Psychology
   c. Psy 475 Animal Behavior
   d. Psy 471 Animal Behavior Laboratory

   In addition, instructors in these courses estimate that something in the order 12 to 20 of the undergraduate students who typically enroll in the foregoing courses will wish, out of their interest in research, to engage in independent research activities under the direction of faculty members.

   Graduate courses that will use the colony include, but are not limited to, the following:

   a. Bi 414, 415, 416 General and Comparative Physiology
   b. Anth 507 Social Behavior
   c. Psy 507 Advanced Animal Behavior

   In addition, graduate students in biology, psychology, anthropology will carry on independent projects of research as a significant part of their learning activities as they seek to qualify as the teacher-scholars of the future.

2. A second contribution to the quality of instruction which will be made by the colony is that resulting from the better competitive position in which it will place the university as the latter seeks to retain on its staff, and to attract into its service, the ablest possible teacher-scholars.

   It must be understood that the university is not engaged in seeking to recruit research-oriented professors who are disinterested in teaching
and who want only to be supported in their research. The university considers teaching to be its most important responsibility. When it recruits for its faculty, therefore, it does so with an eye to finding able teacher-scholars who combine a love of teaching with an interest in extending the bounds of knowledge, and in instilling in their students a self-motivating search for knowledge that is the ultimate aim of education. Professors of this character and quality are interested in the opportunity to continue their research efforts in company with their students in a teaching-learning situation. To such professors, the proposed bio-social colony will serve as a continuing attraction at the University of Oregon.

Cost of the Colony

The costs of the colony consist of: (1) capital costs related to the construction of the physical facilities to house the colony, (2) costs of maintaining the physical plant (heat, light, power, water, maintenance, grounds upkeep, security, etc.), and (3) operating costs (staff costs – caretakers, technicians, secretary – animal purchase, animal food, and the like).

- The capital costs amount to $247,000, which is being supplied by the National Science Foundation in recognition of the excellence of the UO programs and the promise they offer for the future.

- Maintenance costs (heat, light, power, water, maintenance, security) are estimated at $10,000 annually. (See attached statement, p. 7.)

- Operating costs, as defined above, are estimated at $10,000 to $31,300 annually. (See attached statement, pp. 8-9.) It should be noted that this cost would not be a net increase in cost. Already employed from grant funds are .5 FTE caretakers, .5 FTE secretary, and 1.0 FTE technician (cost: $13,500), who would be assigned to the proposed bio-social colony to do there the same work they are now doing.

Maintenance and operating costs aggregate an estimated $20,000 to $41,000 per year. The university faculty and the president are firmly convinced on the basis of past experience and conversations with those controlling federal and certain private funds that these maintenance and operation costs can be met for the foreseeable future from grant funds in support of research activities at the University of Oregon.

If, however, federal or private funding for the operation and maintenance costs of the colony should be discontinued at some point in the future, and this is always a possibility as we are very much aware from our experience with the new mental retardation center at UO Medical School, the president would expect to make the hard decision: whether to discontinue the colony's operation, or to provide $20,000 from the university's always short supply of funding, in preference to putting that amount in one or more of the other educational activities in which the university is engaged or in which it would like to be engaged. This weighing of alternative uses of available funds is a common, and often harrowing, experience with university presidents in this day of rising costs and fund shortages.
Other Animal Colonies in Oregon

The university's request to the National Science Foundation for funding of the bio-social colony was made with full knowledge of other animal research programs in Oregon, among which are those at the Northwest Regional Primate Center, the University of Oregon Medical School, the University of Oregon Dental School, Oregon State University, and Portland State University.

Regional Primate Center. The Northwest Regional Primate Center at Beaverton does have very substantial animal research resources. Their research efforts are centered in non-human primates, principally the mulatta macaque (Rhesus) monkey. The Primate Center has hundreds of these monkeys living under controlled conditions. Careful breeding records are kept and lineage tables maintained for the total colony. These records are correlated with the great mass of information gathered in the various laboratory studies - cardiovascular, mental and emotional characteristics, neuromuscular, endocrinology and metabolism, genetics, behavior, etc. Disciplines commonly involved in these cross-discipline studies include, but are not limited to, the following: physiology, psychology, immunology, biochemistry, experimental pathology, embryology and anatomy, biophysics, reproductive physiology.

Scientists at the Primate Center and those on the University of Oregon campus are in touch with each other as for instance in the case of the recent five-weeks seminar on immunology on the University of Oregon campus which brought together scientists from round the world. Scientists from the Primate Center, the Medical School, and OSU were participants. And there are, on occasion, students from the Eugene campus whose special interests are congruent with those of the scientists at the Primate Center and who, therefore, arrange to work in the Primate Center for a period of time.

The Medical School. The animal colony at the medical school has a variety of inhabitants; goats, calves, racoons, cats, mice, rats, horses, dogs, for example. These animals serve a wide variety of purposes in medical research into such areas as; drugs, metabolism, surgical techniques, cardiovascular problems, immunology, and the like.

The Dental School. The animals commonly used by the Dental School for its research program include hamsters, rabbits, rats, mice, dogs, gerbils, and occasionally, pigs and monkeys, all of which are housed in the dental school building except for the monkeys.

Oregon State University. OSU has a range of animals on campus, including cows, horses, poultry of all kinds, Japanese quail, mice, rats, etc. OSU also has extensive varieties of fish and other aquatic life under study and investigation in connection with their studies in marine biology and oceanography.

Portland State University. PSU's principal animal researches are related to rats and mice.

The question may be asked as to why all animal researches cannot be carried on at a single location in the state system? Why must each institution have animals for its teaching and research programs? Why cannot teaching and research which the proposed bio-social colony at the University of Oregon
is designed to serve be carried on using the animals at the Primate Center, the University of Oregon Medical School, or Oregon State University?

The answer is that in the life sciences meaningful graduate study - and enriched undergraduate study for that matter - must be carried on in the presence of life - animal life - where structure, and form, and life processes can be observed first-hand, and worked with under various experimental conditions.

The kinds of animal life used for teaching and research in the life sciences varies according to the matters being studied and researched. Perhaps the study of muscle and neuromuscular physiology may most effectively be carried out through study of crabs, or barnacles, or snails, or perhaps cockroaches. But some immunology studies can most effectively be carried out only when horses are available. Rats and mice are admirable for certain kinds of studies, but for others, dogs or cats may be infinitely better - or in the case of some dental studies - pigs.

The number and the variety of animals needed will vary with the nature of the studies being carried on.

The University of Oregon has a wide variety of animal life already on campus in support of its teaching and research activities in life sciences and psychology all the way from the kinds mentioned above to rats, cats, mice, monkeys, and dogs.

The specific need which the proposed bio-social colony is designed to serve is to permit the study of animal behavior under controlled conditions and under conditions which offer opportunity for close observation of animal behavior without intruding the human element into the animal's environment. The university has a team of teacher-scholars combining expertise in psychology, biology, and anthropology, who, with their students, are well equipped to use such a resource effectively and to a good advantage in the teaching and research functions.

The National Research Foundation, considering the bio-social colony a tool for teaching and research appropriate to the faculty resources that have been developed at the University of Oregon, and to the general thrust of the interdisciplinary work going forward at the university, particularly in developmental biology, is willing to provide $247,000 to meet the cost of construction of the facility. And, as we have earlier noted, the operating costs for the foreseeable future will be provided out of research grants from federal and private sources.

The board's office is of the view that given the nature of the graduate study allocations given the University of Oregon, the proposed facility is appropriate to the institution's mission.
MEMORANDUM

To: J. O. Lindstrom, Director of Fiscal Affairs

Subject: Bio-Social Center, Physical Plant costs yearly
(4,200 S.F. Bldg./2½ acres site)

A) An estimated $1.00 s.f. for Heat, Power & Light expenses for 4,200 S.F.
   = $4,200

B) We calculate 3 hrs. per work day on cleaning public area - 3 x 260 days = 780 hrs. x 1.75 & Load @ 27%
   Annual Material & Supplies
   Annual Equipment
   Custodial
   = $1,735
   = 50
   = 100
   1,885

C) Bldg. Maintenance - New building should not require new roof etc., for 5 years
   = No cost

D) Security - Additional - Using a basis of several auto runs & door checks a night @ 30 min. per day
   (x 365 days = 183 hrs. @ $5.00/hr. = 915 x 125%/load = $1,162) Estimated
   = 1,200.

E) Grounds Maintenance inside 2½ A - outside runs.
   = 2,650.
   A summary of the Annual Costs is estimated to be $10,000

Sincerely yours,

L. E. Loranger
Acting Director

cc - R. Emigh
    - Mr. Wallmann
    - Bill Manley
Projected Operating Budget - Bio-Social Colony Center

With the exclusion of routine maintenance fees, electricity, water, etc., the minimal projected operational budget for the Bio-Social Colony is approximately $10,000 per year. This includes:

- .5 animal caretaker @ $6,000 $3,000
- .5 research assistant/technician @ $7,500 $3,750
- .3 secretarial @ $6,000 $2,000

PERSONNEL $8,750

purchase of animals $250

food, bedding, misc. supplies $1,000

ANIMALS AND SUPPLIES $1,250

TOTAL $10,000

At this level of funding the Bio-Social Colony would serve base level teaching/research functions. However, it is fully anticipated that sufficient federal funds will be available to increase considerably the operational level of this facility. While it is obviously impossible to project absolutely precise figures for all future research/teaching programs, the following estimate appears realistic:

- 1.5 animal caretakers @ $6,000 $9,000
- 2.0 research assistants/technicians @ $7,500 $15,000
- .5 secretarial @ $6,000 $3,000

PERSONNEL $27,000

At approximately this level of funding the facilities would be used in a flexible manner for a variety of research-teaching projects. As noted below, it is anticipated that research and training grants from federal sources will be more than sufficient to operate at this level.

Other projected expenses at this higher (and most probable) level of operation would include:

- animals $1,500
- food and bedding 2,000
- medical supplies and services (veterinary) 800 $4,300

A statement by John C. Fentress, assistant professor of psychology and biology, University of Oregon.
At the present time we have necessary animal cages. These will be moved to the Bio-Social Colony. (These cages are to be used for the small laboratory animals; an additional feature of the facility, of course, is the provision for animal runs and outdoor cages. These are provided in the construction budget).

Research equipment needed for the facility is already available on campus. These items have been purchased through federal grants. Any future items that are needed would be purchased in the same way.

Federal Funds Available

The University of Oregon has benefited, and should continue to benefit, from a high level of funding in terms of federal research and training grants. For example, Dr. John Pentress, the director of the facility, currently holds a three year research grant of $59,000 (not including additional 32.6% of personnel budget added for overhead). Of this, $12,340 per year is available for direct personnel costs. Drs. James Weston, Paul Simonds, Dan Kimble, Charles Kimmel, and Philip Grant have budgeted a mean figure of approximately $5,000 per year (total = $25,000) in federal research grants that should be available for use in this facility. In addition we anticipate that upon the completion of this facility additional federal funds will be available in terms of both research and training grants. Funds are currently available from the physiology training grant and Health Science Advancement award which in themselves should provide a minimal operating budget for the facility.

A training grant in developmental biology is pending, and one in physiological psychology is in preparation. Each of these has provisions for programs relevant to the Bio-Social Colony. Thus current and anticipated funds from federal sources should more than cover anticipated operation expenses of this facility. We do not anticipate that funds from state sources will be needed for any of the above mentioned categories at any time.

The overhead funds accruing to the university from research and training grants specifically associated with the Bio-Social Colony should be sufficient to cover all expenses associated with the routine maintenance of this facility (e.g., electricity, janitorial services, etc.).

Several final points may be useful to consider. First, research assistants, technicians, animal caretakers, etc., being hired on "soft money" can be dismissed if necessary (i.e., funds becoming unavailable). Thus the state does not have an obligation to "pick up the tab," so to speak. Second, personnel sources are available through the university at a cost considerably below the figures mentioned above. For example, the federally supported Work Study program makes it possible to employ deserving students at 20% of the usual rate (the Work Study program paying 80% of the wages). Thirdly, there is a general university Bio-Medical Fund which can, if necessary, be applied to the operating expenses of this facility.
STATEMENT CONCERNING THE BIO-SOCIAL COLONY PROJECT

November 21, 1970

INTRODUCTION

There is a growing awareness among scientists of the importance of increased understanding of relationships between organisms and their environment. One fundamental approach to this problem—an approach that is made possible by the quality of existing authorized programs in the biological and social sciences at the University of Oregon—is to focus upon the patterning and development of behavior in various higher organisms as expressed under diverse environmental conditions. The study of behavior, normally done only within the framework of the social sciences, proves to be a most sensitive assay of these basic life functions. In recent years on the Eugene campus there has been a growing interdisciplinary effort among faculty members in the biological and social sciences to examine behavioral and developmental mechanisms of adaptation in different species and under a variety of environmental conditions. The Bio-Social facility has thus been designed with the explicit purpose of consolidating these existing interdisciplinary efforts on the campus.  

There are two major points here. First, without the facility it would be impossible for these programs to attack the fundamental complex social and developmental interactions that form an integral part of biological adaptation. This concern is a natural extension of the University's ongoing programs.

Second, the facility itself is non-departmental, which simply means that it has been designed explicitly to enhance meaningful intercommunication between different faculty and student groups.

1Statement by the University of Oregon.
The Eugene campus is very fortunate in having considerable and overlapping strengths in both the behavioral and biological disciplines that are critical for such an undertaking. There are already strong interdisciplinary programs among genetic-developmental biologists, neurobiologists, psychologists and anthropologists. The degree of communication among faculty and students in these areas is indeed remarkable. It is largely because of these existing strengths that our proposal for a Bio-Social facility received such enthusiastic support from the National Science Foundation. For example, our initial request for $110,000 was, on NSF initiative, funded at more than twice this amount, $247,000. We are very confident that continuing Federal support for this facility will be available, for it is the only program of its type to be developed in the entire country. We believe that individual faculty research programs will also be funded via Federal sources; thus there should be sufficient overhead to cover major running expenses. Indeed, one faculty member in Biology was told explicitly by a member of his Federal review panel that his probability of obtaining a major research grant was now much higher as a result of the proposed construction of this facility.

Because teaching and research functions at this University are intimately related, the facility has been designed for student use at both the graduate and undergraduate levels. For example, in our General Biology course, which enrolls more than 700 students, it would be possible to use this facility for demonstrations of basic behavioral and developmental phenomena of direct relevance to the life sciences. It would also facilitate our teaching programs in lower-division Anthropology and Psychology courses.

Our present facilities in this area are totally inadequate. Because of this inadequacy we have unfortunately lost several outstanding graduate students in
recent years to out-of-state institutions. Research efforts among faculty members have obviously been greatly hampered, to the extent that we would almost certainly lose certain members if the situation is not improved. Conversely, the new facility would help us attract, and keep, outstanding faculty in the future.

The Bio-Social colony has such broad support on the campus that its future is not dependent upon any one department or individual. The program we envision is an extremely broadly-based one. Perhaps that is its major importance.

With this general statement of the facility and program as background, we can now examine some specific aspects.

SPECIFIC CONSIDERATIONS

Title of the Facility

The title "Bio-Social Colony" was used in our initial application to the National Science Foundation to stress the interdisciplinary nature of the program as well as existing strengths on the campus in both the biological and social sciences. The plan is designed to permit us to consolidate our current efforts to examine behavioral organization and development as an integral part of the life sciences. The term "Bio-Social" serves the function of explaining the relationship of the new facility to our current interdisciplinary research and teaching efforts.

Relationship to Authorized Programs

The proposed facility may properly be seen as one which will enhance present interdisciplinary programs in the biological and social sciences. It is thus not in itself a new program. For example, the field of animal behavior has been taught and studied on this campus for several years. The new facility would help students and staff within the area of animal behavior relate their investigations with other branches of the biological and social sciences (e.g. genetics, development, experimental psychology, and anthropology). This multi-dimensional approach is now
hampered primarily by inadequate facilities rather than lack of interest. Existing animal facilities are much too small. They permit physiological and behavioral investigations only under highly restricted conditions (small cages) in which normal behavior is impossible.

Current faculty members who have expressed a particularly strong need for such a facility include: Joel Adkins, Psychology (interested in higher integrative functions in behavior and development); John Fentress, Biology and Psychology (complex behavior patterns and neurobehavioral development); Graham Hoyle, Biology (neuroethology and comparative foundations of behavior); Charles Kimmel, Biology (genetic-environmental interactions in central nervous system development and control); David Kimble, Psychology (sequential organization of behavior as a function of different internal and external control mechanisms); Donald Maynard, Biology (comparative foundations of behavior and neural integration); Frederick Munz, Biology (environmental physiology and sensory function); Paul Simonds, Anthropology (animal communication and social organization); James Weston, Biology (normal and abnormal nervous system development as a function of interactions of genetic mechanisms and environment). Of these, Professors Fentress, Simonds and Weston would be the major users at present.

Relationship to Other State Programs

This facility and program does not duplicate any other in Oregon. For example, the Primate Center in Beaverton is devoted exclusively to non-human primates. Our facility is designed explicitly to permit broader comparative research (e.g. Canidae, rodents, birds, and fish) and any primate work will be only a minor component. Neither Oregon State University nor the University of Oregon Medical School has a combination laboratory-field station of this kind. The University of Oregon has traditionally been the major center for detailed investigations of
behavior mechanisms underlying complex adjustments between organisms (human and non-human) and their environments. Given our current strengths in such fields as experimental psychology, comparative physiology, genetics and developmental biology, an interdisciplinary facility of the present design is of maximum importance.

It is our understanding that the University of Oregon Medical School program in areas related to the one in question consists of neurophysiology and endocrinology. The two programs do not overlap. The facilities at the Medical School are not used for, nor adaptable for, studies of behaviour.

Oregon State University has faculty members who are interested in animal behaviour, but to our knowledge, no experimental facility suitable for observation on mammals.

The Primate Center does have a strong behaviour program, but it is concentrated solely on primates (monkeys and apes). In particular, there are two large monkey pens. However, as stated above, our program will not deal with primates, but with other mammals for comparative studies. Thus we feel that our proposed facility would complement the Beaverton Center but not compete with it.

Use of Other State Facilities

Faculty and students at the University of Oregon have used, and will continue to use, facilities at other state institutions when this appears most appropriate. However, it must be emphasized that the state has no adequate facilities for the comparative study of behavior at the present time. This is an extremely important area of academic endeavor at the present time, and the University of Oregon is highly qualified to pursue this work as part of its basic existing programs.

Siting of the Facility

Siting of the colony was studied with great care by appropriate committees within the University for more than nine months. It is essential that this
facility be readily accessible to students and faculty on the Eugene campus and yet be removed from the main lines of campus traffic. It was also considered most appropriate to locate it as a natural extension of the current animal laboratories, which are designed solely for physiological and behavioral investigations under highly restricted conditions. The eastern end of the Foster-Silva property is the only location that satisfies each of these requirements. This site has been approved by both the University and the Eugene Planning Commission.

Projected Future of the Facility

No expansion of the proposed facility is anticipated. It is essential for our current programs and should serve this function adequately.

It will not be necessary to add new faculty members to achieve the goals of this program for, as noted above, the University of Oregon is already well attuned for and staffed for interdisciplinary approaches of this kind. It is obviously not possible to project future academic developments with certainty, but if additions do prove necessary, it is expected that Federal resources will be available.

We also do not anticipate any major increase in the animal populations to be studied. A major function of the facility is to work with complex behaviors in a relatively small number of animals at any given time so that they will have sufficient freedom to express normal environmental adjustments. The major species to be used are Canidae, and wild and inbred rodents. The facility is so designed, however, that small groups of birds, fish, etc. can be employed for particular projects when necessary. Thanks both to the species used and the relatively small number of animals per unit area, no problems of noise, odor, or related disturbances are foreseen.
Operating Budget

It is anticipated that most faculty members who use this facility will have grant support from Federal funds. In addition to budgeted items, provisions for overhead should insure adequate operating funds. In addition, it should be emphasized that the National Science Foundation has a strong tradition of supporting facilities that it helps construct. Finally, training grant programs (e.g., physiology, developmental biology, physiological psychology) should greatly assist in the operation of this program. It is believed that the existence of this facility will considerably facilitate future applications for research and training funds in relevant areas. These funds have traditionally had a most beneficial effect upon undergraduate teaching programs in addition to graduate training and research.

What would happen if Federal research support should cease altogether, or in large part? As far as faculty is concerned, there would be no budgeting effect. As previously stated, no new faculty are being contemplated; everyone concerned is presently on campus. With respect to maintenance and operating expenses, if such a cut-off of funds should occur, the University would be faced with the choice of maintaining the facility out of its then existing resources or closing it. A decision as to which course of action to take cannot be made in advance but must be left to a weighing of priorities existing at the time, should such a decision become necessary.

Stability of the Facility and Program

Neither the facility itself nor the research-teaching program is dependent for its continuity upon any single department or individual faculty member. Thus its continued usefulness in our academic program should be assured.
SUPPLEMENT B

OREGON STATE BOARD OF HIGHER EDUCATION

ADMINISTRATIVE CODE REFERENCES OMITTED FROM PROPOSED ADMINISTRATIVE RULES

B-9-B.

B. A majority vote of all members of the board shall be necessary to determine matters of educational policy or institutional management such as adding or eliminating curricula and changing administrative or other major officers such as deans and heads of departments. (By-Laws, Art. I, Sec. 6)

Dropped. Majority vote of those present govern if a quorum is present. See AR 10.235 and 10.250.

B-15

B-15. Honorary Degrees

When the head of any unit shall desire to nominate a person for an honorary degree, he shall file such nomination with the board not later than March 1 preceding the commencement at which such honor is proposed to be conferred. For confirmation, such nomination must have the approval of at least six members of the board. (Meeting #109, 1-28-41, p. 8)

Dropped. The practice of granting honorary degrees has been discontinued during recent years. The Board may wish to consider a substitute statement.

C-1

C-1. One Administrative Head

It shall be the policy of the board to organize a single, unified, and coordinated system of higher education under one administrative head. (Meeting #18, 5-27-31, p. 14)

Covered in AR 10.140 (Appointment of Chancellor).

C-4

C-4. Visitation of Institutions

Members of the board will keep in touch with the several institutions through personal visitation. At frequent intervals members or committees of the board will visit the several institutions so that all members of the board may become familiar with their work and spirit. (By-Laws, Art. II, Sec. 7)

It was deemed unnecessary to include this statement in the Board's rules.

C-14

C-14. Traffic Control on Properties Under the Supervision of the State Board of Higher Education

Covered by ORS 352.360 (1969); see AR 72.010.
D-13. Division of Continuing Education Budget

The director of the division of continuing education is to organize and conduct all the departments in general extension with a view to reducing the requirements from board funds to the minimum consistent with reasonable service to the people of the state. (Meeting #112, 6-10-41, p. 18)

Board's staff recommended omission, on basis that the admonition applies to all operations of the institutions and divisions of the State System.

D-29. Financing of Student Union Activities

A. The board approved a general program for financing student union activities in which it is recognized that such building actually serves general educational purposes and recommended that all general physical plant services be provided from the institutional physical plant budget except in those areas of the student union building used for commercial or revenue-producing purposes, and as restaurants, retail stores, barbershops, or other concessions. In these areas the physical plant costs would be paid from the receipt of the respective commercial activities from the student union activity list. The general institutional physical plant budget will provide the same amount of service for the areas in general use in the student union building as provided for the other general educational buildings of equal area.

B. The following student union costs shall be met from the income of student union activities or from student union fees:

(1) All physical plant operating and maintenance costs in areas occupied by commercial activities or concessions.

(2) All excess physical plant operation and maintenance costs in the general areas of the student unions above that required in the average educational building, whether the excess cost be due to intensive use of the buildings, to a higher standard of maintenance, or to the special nature of activities carried on in the building.

(3) All costs of furniture repair and replacement including an adequate annual reserve to cover future repairs and replacements.

(4) All costs of student union activities including salary of director and other personnel. (Meeting #186, 8-9-49, pp. 5-6)

Board's staff recommended omission on basis that such operating details should not be included in the Administrative Rules. It is recommended that the above be included in the Administrative Rules by reference only, as follows:

61.045 Financing of Student Union Activities

See minutes of Board meeting of August 9, 1949, pp. 108-9.

D-34 and D-35

D-34. Travel Expense of Committees of the Board

The board authorized the payment of necessary travel expenses of persons appointed to serve on committees created by the board. (Meeting #21, 12-7-31, p. 21)
D-35. Travel Expense of Staff Members

A. The following principles shall govern the payment of traveling expenses of staff and faculty members. (Followed by extensive details subject to frequent change.) Covered by AR 10.030 and by administrative rules issued by the State Executive Department and by travel regulations issued by the Controller's Office.

D-43

D-43. Charges to State Agencies for Central State Services.

Certain central state services, such as the Personnel Division and the Department of General Services are financed through assessments to the state agencies served. Charges for such services to the institutions and divisions of the Department of Higher Education become a part of the operating expenses of those institutions and divisions. (Budget for 1969-1971, approved by the 1969 Legislature.)

From State budget 1969-71; not suitable for inclusion in Administrative Rules.

E-1

E-1. Utilization of Specialists

The board directed the use of various specialists in the system as consultants on plumbing, electrical work, heating, landscaping and grounds, and building repairs and improvements. (Meeting #36, 6-7-33, p. 3.)

Not suitable for inclusion in Administrative Rules.

E-6

E-6. Issuance of Keys

All requests for keys are approved by the head of the department concerned. A deposit is required for each key issued. The deposit may be refunded on return of the key. Under no circumstances are keys to be duplicated by outside agencies. (Meeting #34, 4-26-38, pp. 20-21) (Policy on keys shall be up to the administrative head.)

Left to institutional administration. See AR 12.110.

G-3-R

B. The president of Oregon State University is authorized to approve all necessary transfers in both requisition and salary budgets in the divisions of agricultural research and federal cooperative extension where no millage funds are involved. (Meeting #38, 9-10-34, p. 3)

Authority delegated to Chancellor; see AR 11.210.

K-1-A and B

K-1. Fellowships and Scholarships

A. Teaching or research fellowships in the several institutions shall be offered only on a basis of uniformity as to rate of compensation and requirements of service. (Meeting #18, 5-27-31, p. 10)
B. Free scholarships of any kind, whether such scholarships be in the form of monies or exemptions from or remission of tuition or other fees, shall not be offered from institutional funds except on a basis applicable alike at all the state institutions of higher learning. (Meeting #18, 5-27-31, p. 7)

K-1-A dropped. Most fellowships are financed through contracts with federal agencies. Compensation and service requirements vary in different contracts.

K-1-B covered in State Scholarship Law, ORS 348.505 - 348.620; see Appendix C.

K-3
K-3. Student Automobiles (See C-9 and C-14)

The use of automobiles by students shall be regulated to the end that such use shall not in any way be a detriment to the maintenance of the highest standards of scholarship, social life, and general welfare of the institutions and the individual members thereof. (Meeting #29, 10-17-32, p. 19)

Covered in Institutional Traffic Regulations, authorized in ORS 352.360; see AR 72.010.

K-7, K-8, K-9

K-7. Admission of Nonresident Students

Grade Point Average requirements for nonresident students in the State System institutions are:

<table>
<thead>
<tr>
<th>Institution</th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UO, OSU, PSU:</td>
<td>2.75</td>
</tr>
<tr>
<td>Freshman</td>
<td></td>
</tr>
<tr>
<td>Transfer</td>
<td>2.25 (on college work)</td>
</tr>
<tr>
<td>OCE, SOC, EOC:</td>
<td>2.50</td>
</tr>
<tr>
<td>Freshman</td>
<td></td>
</tr>
<tr>
<td>Transfer</td>
<td>2.00 (on college work)</td>
</tr>
<tr>
<td>OTI:</td>
<td>2.00</td>
</tr>
<tr>
<td>Freshman</td>
<td></td>
</tr>
<tr>
<td>Transfer</td>
<td>2.00 (on college work)</td>
</tr>
</tbody>
</table>

Alternative admissions requirements for nonresident students not eligible for admission to freshman standing on the basis of high school grades:

<table>
<thead>
<tr>
<th>Institution</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UO, OSU, PSU:</td>
<td>Students with high school GPA between 2.25 and 2.75 may be admitted on the basis of their predicted success in college as determined by a combination of high school GPA and CEEB test scores or 2.25 on 12 quarter hours of college level work taken in accredited collegiate institution or on 9 quarter hours in a prescribed program in a regular collegiate summer session.</td>
</tr>
</tbody>
</table>
OCE, SOC, EOC: Combined score of 950 on Scholastic Aptitude Test 
or
2.00 on 12 quarter hours of college level work completed in accred-
ited collegiate institution or 9 quarter hours in a prescribed 
program in a regular collegiate summer session.

OTI: Same as resident  
(Meeting #367, 7-23-68, pp. 519-20, 594-5)

K-8. Early Admission—Resident Students

Each institution in the Oregon State System of Higher Education is authorized to admit resident high school graduates on the basis of seven semesters of high school work provided the high school principals submit statements that the students (1) have a cumulative grade-point average of 2.50 or above for the seven semesters (or five semesters in the instance of senior high schools), and (2) are recommended for admission. (Meeting #301, 1-23-62, p. 29)

K-9. Early Admission—Nonresident Students

Early admission for nonresident high school graduates will be on the basis of a cumulative grade-point average of 3.00. (Meeting #301, 1-23-62, p. 29)


K-12

K-12. Married Student Housing

The primary purpose of the married housing program is to provide housing for graduate students. (Meeting #312, 3-12-63, p. 79)

General purpose for providing student housing shown in AR 31.110.