## DENTAL CLINICS

### FTE AND FUND COMPARISON

<table>
<thead>
<tr>
<th>Program and Function</th>
<th>1975-76 Initial Budget</th>
<th>1976-77 Proposed Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Academic FTE</td>
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### DIVISION OF CONTINUING EDUCATION

**FTE AND FUND COMPARISON**

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## Cooperative Extension Service

(Division)

### Statewide Public Service Divisions

**Estimated Source and Application of Funds**

1976-77

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* Includes Predator Control Program $22,290.

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### AGRICULTURAL EXPERIMENT STATION (Division)

#### STATEWIDE PUBLIC SERVICE DIVISIONS

#### ESTIMATED SOURCE AND APPLICATION OF FUNDS

1976-77

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UNIVERSITY HOSPITALS  
(Division)

STATEWIDE PUBLIC SERVICE DIVISIONS  
ESTIMATED SOURCE AND APPLICATION OF FUNDS  
1976-77

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### DENTAL CLINICS

(division)

**STATEWIDE PUBLIC SERVICE DIVISIONS**

**ESTIMATED SOURCE AND APPLICATION OF FUNDS**

**1976-77**

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<tr>
<td>Federal Funds</td>
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<tr>
<td>Totals</td>
<td>$43,897</td>
<td>$734,875</td>
<td>$680,608</td>
<td>$98,164</td>
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# RURAL MEDICAL PRACTICES ACT

(Division)

STATEWIDE PUBLIC SERVICE DIVISIONS

ESTIMATED SOURCE AND APPLICATION OF FUNDS

1976-77

<table>
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May 25, 1976
### Statewide Public Service Divisions

#### Estimated Source and Application of Funds

**1976-77**

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<tr>
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The Oregon Educational Coordinating Commission has reviewed twelve new programs approved by the Board for the institutions at the Board's January and March meetings, and has submitted to the President of the Board copies of its findings and recommendations. For one program among the twelve, (the MA/MS in Interdisciplinary Studies at Southern Oregon State College), the Commission asked that the Board delay offering the program until the Board had reviewed the program in light of certain policy issues as set forth by the Commission, and discussed below.

Staff Recommendation to the Committee

The Board's Office recommended that the Board's Committee affirm the earlier action taken by the Board authorizing Southern Oregon State College to offer the MA/MS in Interdisciplinary Studies.

Discussion and Recommendation by the Committee

Dr. Romney summarized Commission staff findings and the Board's Office comments. He said that in respect to the question of unnecessary duplication, the proposed program is in effect a repackaging of existing courses available at the institution, developed there in support of programs authorized by the Board. He noted that the Board foresaw, in 1973, the possibility that a request of this character would come from Southern Oregon State College when it adopted Guidelines for the institution. These Guidelines clearly indicate the expectation on the part of the Board that Southern Oregon State College might repack for resources already available in support of its master's degree work in education to serve a different clientele without added cost to the institution. He said the Board's Office is not suggesting that additional resources be added to Southern Oregon State College to support this program, or that new courses be developed, but simply that Southern Oregon State College be permitted to package courses already being offered in a way that will enable persons living in the southern region to develop programs that have real significance to them. This action is consistent with the long-standing policy of the Board that where available resources can, by repackaging, be used to serve the needs of more than one group of students, they should be. To say that this multiple use of resources is an unnecessary duplication of programs available at Oregon College of Education, the University of Oregon and Oregon State University, seems to the Board's Office to ignore the fact that Southern Oregon State College is talking not about the development of new resources, but the utilization of resources already there.

In respect to need, he said, the Oregon Educational Coordinating Commission staff indicates that need has not been demonstrated because there is no indication of potential employment opportunities for graduates of the program or regional non-employment benefits to be received from the program. The Board's Office believes the case for need has been made in the sense that there is a clientele residing in the southern Oregon region which can utilize resources already available at the institution in a bona fide way. In respect to the remaining broad questions raised by the Commission (Items 4-b, -c, -d, p. 6), Dr. Romney said these are questions that would affect graduate programs throughout the State System. The questions are worthy of examination, but because of their broad application, the Board's Office does not feel the examination should be made in the context of this particular program alone.

Dr. Betty Lou Dunlop, Director of Graduate Studies for Southern Oregon State College, presented statistical information reporting the numbers of students enrolled in Southern Oregon State College's MA/MS degree program in general studies over the past five years who were not interested in teacher certification. While the numbers are not large, they constitute about one-fifth of the students enrolled in this program. Mrs. Dunlop also presented a list of some of the career interests...
of persons who would be served by the interdisciplinary degree format. She noted that many of these people are already employed in private business, human services, and city government, for example.

Mrs. Rosemary Stanek, a former student at Southern Oregon State College who has completed the MA/MS degree program in general studies and who served for three and a half years as secretary in the graduate office, said she took the education component of the general studies degree because it was required. While the classes were interesting, she said, her vocational interest is in working in the area of research, perhaps starting a local research service, and courses in mathematics and computer science would have better suited her needs than did the required course work in professional education. Other prospective students, those working in the human service areas for example, have found the general studies format unsatisfactory because they could not design a program which would cross disciplines, combining work in psychology and biology for example. She said her present vocational goals developed out of her program of studies. She said she felt education was important to a large segment of people, that their goals were often personal at first but during the course of their studies they see how they can use their education to serve others, either in gainful employment, if that is important to them, or in other ways.

Dr. T. K. Olson, Executive Director of the Oregon Educational Coordinating Commission, described the development of the Commission's findings and recommendations. He said the report before the Board was the result of many long hours of discussion between the staffs of the Board and the Commission and the two Commissioners who serve on the Commission's program review committee. In many ways, he continued, the report represents the different nature of the examination the Commission makes of programs and, in some ways, a different set of values between the approach of the Commission and the approach of the Board. He said he had spoken extensively to the Commission about this at its last meeting and each time the Board's staff meets with the program review committee, effort is made to narrow the differences. But clearly, he said, there are differences. One difference is explained by the fact that the Board's staff have been reviewing programs for many years and many of the basic questions are already answered for them because they have seen them many times. And because the Board has overlapping membership, he continued, there is no imperative for the Board's staff to go back and spell out everything for Board members over and over again. In contrast, the Commission is a new Commission and does not have an experienced staff and so the Commissioners and its staff sometimes ask a lot of minutiae questions and sometimes some basic questions which the Board might have examined but did not feel it was necessary to do so because the answers, to the Board, were self-evident.

The Commission report reflects to some extent this picture, he said. In it, the Commission has tried to spell out its analysis and in its conclusions to present some of its concerns. The Commission has suggested that the Board might wish to delay implementation of the interdisciplinary studies program at Southern Oregon State College until it has considered four basic questions. Dr. Romney suggested the questions are good ones, but questions their relationship to this particular program. The Commission feels there is a very direct relationship between the questions and the proposed program, he said. He said if the Board agrees that there is legitimacy to the questions, and the program itself is the manifestation of each of the questions, then the Board will wish to the best of its ability within a reasonable time frame, to answer these questions before it puts its imprimatur on another program. In essence, he said, this is the nature of the Commission's request—that the Board examine these broad policy issues before it approves the program. Dr. Romney is saying these are important questions but let us address them at some time in the future and not delay this program. In essence that is the difference in the tactical situation before the Board, he concluded.

Mr. Harms said he had read the Oregon Educational Coordinating Commission report with interest because he had expressed some concerns about the program when he had
voted to approve it. He said, however, that he was satisfied, with the additional justification of need that had been provided, that the difference between the two reports, that of the Oregon Educational Coordinating Commission and of the Board's Office, is simply that each has reached a different answer on this particular subject. He said he concurred that the three questions raised by the Commission which have not been spoken to in the Board's Office report should not be just let hang, and if the Committee affirms the Board's previous position, he would move that the Committee request the staff to bring these questions, with staff recommendations, to the Board for its consideration.

Mr. Joss noted that, if the Board affirmed its position, students enrolling in the program would pay graduate tuition. Dr. Olson agreed, saying the dollar impact is not great because in essence the population which would enroll in the program is already enrolled in the graduate program. Mr. Joss observed, however, that the Commission was raising the point that perhaps these students should not be receiving graduate credit and completing degrees but enrolling at the undergraduate level.

Dr. Romney said the questions being raised by the Commission would have an impact, whatever the response, across the whole spectrum of graduate education, and, as Mr. Harms has indicated, these questions will be examined in the very near future. The issue before the Board, he said, is whether Southern Oregon State College should be authorized to offer the proposed program for people who are for the most part already in a graduate program at Southern Oregon State College and who would elect this program in lieu of the one they are now in.

Mrs. Carpenter said she had found some aspects of the suggestion that the Board delay authorization of this program very disturbing. She said she felt the Board would be in an untenable position should it attempt to judge the reason for student interest or willingness to enroll in a particular situation. How can the Board evaluate the reasons people enroll in courses, she asked, for example the reasons of persons who say they are taking a course in psychology because in this course they find insight that enables them to function in a more adequate fashion in their employment or in other situations than heretofore. She said she felt the Board was getting into a totally, absolutely untenable position when it begins to estimate or judge whether someone's interest or willingness to enroll in a course is something which it can approve or disapprove.

Dr. Olson said the Commission was not addressing the purpose of an individual student's enrolling in a program, but rather whether the program itself had a sufficiently clear focus to merit support for graduate state funding. What is being asked, Dr. Olson said, is as to whether the Board is clear in its own mind as to the purpose of the general studies program on the basis of the evidence supplied by students enrolled in the program. One of the questions associated with this is when you have a number of students who wish to take programs which are composed of undergraduate courses, is it justifiable on the basis of the evidence supplied alone to fund the program at the graduate level.

Dr. Romney responded that Dr. Olson's term "unfocused" is inappropriately applied to the proposed program. He asserted that the proposed program is a focused program. He said it was true that the program did not have focus in a given subject matter area as do departmental major programs, in that it does not permit a student to accumulate 30-36 hours in a single subject matter area. But it is improper to say the program is unfocused. It is very much focused to serve the interests and needs of specific students. As to employment outlets for graduates of the program, many of the students who will be attracted to a program of this nature are already employed. The program serves very well the needs of this particular clientele.

Dr. Olson said it was difficult to determine the focus of the program from past record in terms of students enrolled in the previous program or the existing program because it is difficult to know what they would have enrolled in had they had another option.
Dr. Romney said that given an array of programs from which to choose, some folks will prefer a departmental major program with a heavy concentration in a given subject area, but others, a number of whom live in the southern Oregon region, prefer a program having the characteristics of the program proposed by Southern Oregon State College.

Mr. Maden noted that Oregon State University and the University of Oregon had a wide range of master's degree programs in the individual disciplines, and asked what students at these institutions used the interdisciplinary degree for. Dr. Romney said Oregon State University offers master's degree programs in the sciences but not in the humanities and social sciences and the University of Oregon offers master's degree programs across the spectrum. The interdisciplinary studies degree, he said, is used by teachers, people in other lines of employment such as business, and people who simply wish to engage in advanced study unrelated to employment objectives.

Mrs. Kahananui said she herself had completed an interdisciplinary master's degree. The focus in this degree pattern, she said, is on a problem rather than a discipline. The student comes to the program with a problem interest. He and his adviser look over the offerings of the institution to see what is available that can be used in better understanding this problem. They are not limited in the selection of courses to a single discipline but can select courses across disciplinary lines. The focus is the problem, some aspect of which becomes the thesis topic.

Mr. Maden asked if experience at the University of Oregon and Oregon State University with interdisciplinary programs showed it was not a program people use only because nothing else is available.

Mrs. Kahananui said, on the contrary, the interdisciplinary program is the preferred program if the student wants a problem-focused program. The departmental degree program ties the student to a very heavy requirement within a single discipline. There is no opportunity to draw upon courses outside the major and minor if one wants to complete the program within the normal 45-54 hours.

Since the program is individually focused, Mrs. Kahananui continued, there are as many focuses as there are students. To determine the employment objective of the program one would have to go to each student and determine his focus. So far as quality is concerned, Mrs. Kahananui said, Southern Oregon State College has built in a lot of supervision of the students' programs. There is a mid-program evaluation of the student's progress; each student must complete a thesis, two major research papers, or field project with written report; and at the end there are comprehensive examinations, or an oral defense of the thesis.

Dr. Olson said he felt the question was not whether there should be a range of educational opportunities for students in terms of course work or focus but to what degree the state has responsibility to fund high cost programs. At what point, he asked, does the state, through its entity the Board, develop some criteria that say that a certain experience is sufficiently valuable to society that it merits extra funding. The problem is compounded in this circumstance, he said, in that the courses the students are taking are undergraduate courses, yet the state is investing graduate amounts of money for these students.

Dr. Romney noted that 400-level courses identified with a (G) or (g) in State System institutions offer graduate credit which is applicable to a bona fide degree in education at Southern Oregon State College and to bona fide graduate degrees on other campuses as well. Dr. Olson said he was not contending otherwise. He said the point being made is not salient to the interdisciplinary program, but is a question which should be examined for the State System as a whole.

Mrs. Feves said she felt it was important that the Board consider the development of human resources in the state, and the fact that there is student interest and students wish to study in this kind of situation is important to the Board's consideration.
Mr. Harms said he felt this was one justification for the program. He said he felt the difference between this program and some of the programs the Board may consider in the future is cost. The proposed program, he noted, can be offered at low cost. Even the Commission's concern is not with the cost of this program, he said, but with future costs and these questions will have to be looked at carefully. He said the type of examination that has occurred with this program has been useful and that, if the Board is going to avoid unnecessary duplication, decisions on programs must be made on a case-by-case basis by the Board. He then moved adoption of the staff's recommendation that the Committee affirm the action taken by the Board in approving the proposed program with the provision that the three broad questions raised in the Commission report be examined by the Committee in the near future.

Mr. Joss seconded the motion, saying there should not be geographical discrimination.

The motion was approved by unanimous vote.

Board Discussion and Action

The Board approved the staff recommendation as presented, with the following voting in favor: Directors Carpenter, Peves, Harms, Maden, McIntyre, Stewart, and Layman. Those voting no: None. Director Perry was absent from the meeting at this time.

Commission Action

At its April 9, 1976, meeting the Oregon Educational Coordinating Commission adopted the recommendation of its Executive Director that it accept the Commission staff findings in respect to the proposed MA/MS in Interdisciplinary Studies at Southern Oregon State College and forward them to the Board of Higher Education for their review and appropriate action.

In brief, the Commission staff findings are these:

1. **Intersegmental Impact**: That there is no indication that the proposed program would have a significantly adverse impact on other segments; that hence, the Commission's review of the program is advisory only.

2. **Duplication**: That the question as to whether the proposed program is unnecessarily duplicative or not "hinges to some extent on the case for need for the program. Need not having been established, the [Commission] staff has determined that this program could result in unnecessary duplication of programs between SOSC and others presently being offered at OSU, CCE, and UO."

3. **Need**: That "... the case for need for this program has not been made."

4. **Fiscal Impact**: That the proposed program "would have little immediate impact on SOSC's budget or on State funds committed to that institution." But that the "long-range impact of this and similar graduate programs within the State System is a matter of concern, however. The [Commission] staff believes that a number of policy issues should be clarified by the Board of Higher Education prior to any implementation of this program."

5. **Consistency with Statewide Policies and Objectives**: That there was no evidence "indicating any serious inconsistency between this program and the stated objectives of the State System of Higher Education." But that the Commission staff concludes that the proposed program "would result in a significant change in the graduate role and mission of SOSC and an overall review of the role and mission is warranted before the program is implemented."

Discussion of the Commission Staff's Findings

1. **Intersegmental Impact**: No evidence of any significantly adverse impact on any other segments of education was found.
2. Duplication: The assertion by the Commission staff that the offering of an M.A./M.S. in Interdisciplinary Studies at Southern Oregon State College "could result in unnecessary duplication of programs between SOSC and others presently being offered at OSU, OCE, and UO," is without warrant, in the judgment of the Board's Office.

The interdisciplinary studies degree program permits students, with the help of a faculty adviser (and in the case of Southern Oregon State College, the help of a faculty advisory committee, as well), to develop an interdisciplinary program using courses already available at the institution. The Southern Oregon State College degree requirements provide for a minimum of 9 credit hours in each of two fields, a minimum of 15 credit hours in a third field, with not more than 21 credit hours in any one of the three fields. It is expected that students will generally complete 21 credit hours in one of the three fields.

This, then, represents a "repackaging" of existing courses which are already available on campus to serve the specific interests and needs of given students who feel that an interdisciplinary program would serve their needs better than other available programs. The Board has encouraged institutions to review their resources to discover if there are ways of "repackaging" resources already available on campus so as to serve better the needs of their students.

The Board has authorized the University of Oregon, Oregon State University, and Oregon College of Education to repackage their resources to serve students interested in the interdisciplinary degree program. It is difficult to see how the Board's authorizing Southern Oregon State College to "repackage" its courses under the same general requirements, would constitute unnecessary duplication.

It is anticipated that students drawn to this program will be preponderantly from the southern region.

3. Need. The Commission staff finds that "... the case for need for this program has not been made." In elaboration of that blunt assertion the Commission staff comments as follows:

... the staff finds [that information presented by the Board's Office and by Southern Oregon State College] is incomplete and does not establish need for the program in terms of potential employment opportunities for the graduates, any non-employment related regional benefits to be received from the program, nor any statement of statewide benefits likely to result from instituting this program. Rather, the only criteria [sic] of need is that there are a number of students available for enrollment who do not wish to take the teaching degree.

Board's Office Comment

As we have indicated in the discussion above, the proposed program represents a "repackaging" of resources already being provided in the southern region by Southern Oregon State College, so as to make more effective use of these resources.

The clientele for the program will be, to a significant degree, persons who are living and working in the southern region, who see in this program an opportunity to take advantage of resources already available at Southern Oregon State College in developing, with the assistance of a faculty adviser and advisory committee, a program which focuses on their interests and needs--many of which programs relate to career interests and needs, although some will not have a vocational orientation.
The range of those who would be served by this program is quite broad—including persons from the business and industrial community, various levels of government in the southern region, professional persons outside government and industry, various categories of citizens who fall outside these broad groupings.

We believe that the importance to the southern region of having access to the type program here discussed has been well expressed in discussions with the Commission's staff.

4. Fiscal Impact: Quoting the Commission's staff, "This program would have little immediate impact on SOSC's budget or on State Funds committed to that institution. The long-range impact of this and similar graduate programs within the State System is a matter of concern, however. The staff believes that a number of policy issues should be clarified by the Board of Higher Education prior to any implementation of this program." These policy issues were set forth by the Commission staff in a series of four questions, as follows:

a. Where there is no state or regional need demonstrated for a particular graduate program, is student interest and willingness to enroll sufficient justification to merit authorization of such programs?

b. Should the State Board continue to allow postbaccalaureate and fifth-year students to take courses for graduate credit and generate graduate funding entitlements without being admitted to graduate degree programs?

c. Should the State Board change its tuition and admission policies to allow postbaccalaureate students taking courses through the 400G level to take these courses without receiving graduate credit for them or without having to pay graduate tuition? (Credit hours generated by such students would receive entitlements at 1.25 FTE rather than 2.0 FTE.)

d. Should the State Board change its admission requirements so as to require all graduate students to be either admitted to graduate degree programs or not receive graduate credits for courses taken through 400G level? (400G are technically undergraduate courses which are eligible under certain conditions for graduate credits.)

Board's Office Comment

Questions 4b, c, and d, above, relate to policies affecting postbaccalaureate and graduate degree programs broadly in the State System. They should be considered in that context rather than in the context of the program review relating to the MA/MS in Interdisciplinary Studies at Southern Oregon State College. The program here under consideration would have little or no impact on Southern Oregon State College's budget or on the state funds committed to Southern Oregon State College. When these broader issues are discussed, involving the funding pattern for graduate education in the State System, they should be considered in the light of their impact across the total array of postbaccalaureate and graduate degree programs in the State System. If, as a result of consideration of these broad issues, changes are made by the Board and the Legislature in the admissions, or funding policies, they would become applicable, as appropriate, to the MA/MS in Interdisciplinary Studies and to all other graduate programs in like fashion, at that time.

Meanwhile, let us respond to question 4a.

First, let us be reminded that what is being proposed is not the creation of a new graduate program at Southern Oregon State College requiring the diversion of extensive resources to that program. What is being proposed, as explained elsewhere, is authorization to Southern Oregon State College to "repackage" resources already available on the campus in support of other authorized programs, so that these resources may be made to serve more people in the southern region than they currently do.
Now, as to the Commission staff's question above. The Board's Office believes the question begins with an unwarranted assumption and presents the matter which is before the Board in an unfavorable light.

The Board's Office believes that there is a regional need to authorize the proposed program, and that in meeting that regional need, the state's interests will be better served.

Access to educational opportunities is a significant factor in creating an environment of social and economic progress. This is so commonplace an understanding as usually not to require comment.

For instance, in very practical terms, business and industrial firms, and other large organizations and aggregations of people place high on their lists of matters to be considered in determining where to locate, the educational resources available to their employees and their families, and to the organization itself. And having located in an area where the educational environment is favorable, business, industrial, governmental, and other organizations commonly provide incentives for their employees to use these resources.

The foregoing facts are not lost on the people of the southern region of Oregon any more than they are on the mid-Willamette Valley and Portland area citizens of Oregon. It should not be surprising, therefore, if in the light of the Commission's staff's question, above, important elements of the southern region should accept this question as an opportunity to elaborate their views on the matter under discussion.

5. Consistency with Statewide Policies and Objectives. The Commission staff found that there was no evidence of "serious inconsistency between this program and stated objectives of the State System." They did also say, however, that the program "would result in a significant change in the graduate role and mission of SOSC." In its detailed findings, the Commission staff recommends that "the Commission advise the Board of Higher Education to review and clarify its own policy which has in the past limited development of graduate programs at the regional colleges to the area of teacher education before SOSC is permitted to implement the MA/MS interdisciplinary studies program."

This is a problem of semantics. The Board's Office does not see the interdisciplinary studies program as a significant change in the graduate mission of Southern Oregon State College.

The Board has always encouraged the institutions to make their courses and other resources available to citizens residing in the vicinity of the institutions to the extent this could be accomplished without diversion of resources from the primary mission of the institutions. Moreover, guidelines adopted by the Board in 1973 foresaw the development of this program at Southern Oregon State College. Those guidelines (adopted January 22, 1973) speak directly to this matter as follows: "The board of higher education does not envision the development at SOSC [now SOSC], in the period to which these guidelines address themselves, of graduate programs to any degree beyond those in teacher education and general studies to serve non-teacher education." [Emphasis added.]

The proposed interdisciplinary studies program is the "general studies" program to which the Board specifically referred, above. Moreover, on several occasions over the intervening years, Southern Oregon State College has been told that if they proposed an interdisciplinary program of the type here under discussion, the Board would likely look kindly on the proposal as being consistent with the general principle cited above. Long-time members of the Board will recall such discussions.
The Committee reviewed a report titled The Role of the Regional State Colleges, prepared for them by the Office of Academic Affairs. This document, dated April 29, 1976, is on file in the Board’s Office.

The report noted that it has been the consistent policy of the Oregon State Board of Higher Education, since its establishment in 1932, to operate within guidelines established by the Board as the basis for orderly, systematic, planned growth and change in the State System of Higher Education.

In January 1973, the Board adopted new guidelines for the State System and its institutions, replacing the early guidelines which had governed institutional development during the 1960's and the early 1970's.

Staff Recommendation to the Committee

The Board’s Office recommended that:

- The Board examine the information and data presented including the guidelines established in 1973 by the Board for Eastern Oregon State College and Southern Oregon State College;
- The Board consider whether the developments at Eastern Oregon State College and Southern Oregon State College have been consistent with the foregoing guidelines and other Board policies relating to these institutions;
- The Board consider what modifications, if any, in these guidelines and policies are required for the appropriate future development of Eastern Oregon State College and Southern Oregon State College.

Discussion and Recommendation by the Committee

The Committee discussed the action that should be taken in respect to the report. Mr. Joss indicated that he had read the report and was ready to act on it. Mrs. Carpenter said she felt that the question has been raised as to whether the Board should modify its policies in respect to the regional colleges, and this question required thorough and intelligent discussion. Mr. Harms said the question of the role of the regional colleges was a serious one and he, personally, felt he needed more time to consider the matter.

Mr. Maden said he felt that central to the issue of the role of the regional colleges were policies of the Board which were strongly in disfavor of duplication of programs at the graduate level but is less regulatory in respect to duplication of undergraduate programs in the fields of the humanities, social sciences, and sciences. He said he felt the Committee should examine whether the Board should continue the policy permitting duplication of programs at the undergraduate level in view of budgetary and enrollment prospects with which the Board will be dealing over the next 5-10 years.

Dr. Romney reviewed the development of the regional institutions from two-year normal schools devoted to the preparation of elementary teachers to baccalaureate degree granting teachers' colleges, which, as they developed strengths in the liberal arts in support of their teaching programs, and consistent with policies of the Board for maximum utilization of courses and materials, began serving regional needs in areas other than teacher education. He noted that the institutions in the regional areas early in their history offered two-year programs available to residents of their areas. This aspect of their program has continued and the Board has confirmed from time to time the desire that this service continue and, should need exist, be expanded.
Dr. Romney said that while the authorization to offer departmental degrees in the liberal arts at the regional institutions is duplication, it is not, in the opinion of the Board's Office, unnecessary duplication because if upper-division classes are sufficiently enrolled, it is no more expensive to enroll the students in classes at the regional schools than to enroll them in classes at the larger institutions. He said that to whatever extent non-teacher education students enroll in courses developed for the teacher education program at the regional schools, these schools provide a service to their region beyond that open only to those interested in teacher education.

In respect to the question of continuation of two-year programs at the regional colleges, Dr. Romney said it has been the view of the Board that it made good sense for regional colleges operating in areas not served by the community colleges to continue to offer two-year transfer and associate degree programs. As to the question of whether local property tax funds should be required in order for people residing in a region to have access to lower-division study offered by a regional college, he said this is a question that will need to be dealt with by the Legislature.

Mr. Maden asked if it was Dr. Romney's recommendation that no modification be made in policies of the Board in respect to the regional colleges. Dr. Romney replied that he felt that within the guidelines as they currently exist there is opportunity for development of regional services, and this development will probably be in the area of continuing education and public service areas.

Mrs. Carpenter asked President Briggs for his observations on the role of Eastern Oregon State College. Mr. Joss said he felt President Briggs had done a magnificent job at Eastern Oregon State College. He said he felt it would be helpful to the Committee to know whether in President Briggs' view the Board's guidelines for Eastern Oregon State College were hampering him in achievement of his objectives for the college.

Testimony of President Briggs. President Briggs said there was leeway in the present guidelines to allow development of different kinds of regional institutions in the eastern and southern regions of the state to respond to the needs of these very different regions. In the eastern Oregon region, he said, we are dealing with a very small institution and the labels of teacher education and professional and liberal arts programs may be given too much importance. What is needed, he continued, is to look toward some kind of undergraduate comprehensive educational programming involving all the existing educational resources in eastern Oregon--the community colleges, Agricultural Extension Service, and the Division of Continuing Education. He said the one restraint he saw at this time concerned guidelines for continuing education, and at least in the eastern Oregon region, the Board might have to look to some different kind of relationship between the Division of Continuing Education and the institutions than now exists. Part of the problem, he indicated, is a legislative one, and part a problem for the Educational Coordinating Council in terms of establishing equity of funding for continuing education in Oregon, but part of the problem is the time-consuming effort required to effect change in servicing education and regional needs.

Mr. Harms said he was concerned that the regional colleges and Oregon Institute of Technology might adopt the philosophy that addition of programs improves education. He said he had some real reservations about adding programs unless there were some specific reasons for doing so.

President Briggs said the reorganization of course work and the resulting disruption of the faculty at Eastern Oregon State College had been a slow, tenacious, and heart rending process, but he thought the College had begun moving with new dimensions, new horizons, and changing attitudes and directions. The real future activities of the College, he said, lay in cooperation with other educational resources in
the vast, isolated, rural eastern Oregon region. The institution is committed to this and in this effort, he said, he believed Eastern Oregon State College would gain some crucial size, with perhaps some turn around in enrollment fall term 1976.

Testimony concerning Southern Oregon State College. Mrs. Carpenter asked President Sours to present his views on the situation in southern Oregon. President Sours said he supposed if the Legislature were to start over again in the southern region, it would establish a single institution in Medford and assign to this institution multiple missions under self-contained administrative entities. Instead, there are two public post-secondary institutions with somewhat competitive missions, and a question of unmet educational needs in the Medford area. In an effort to ascertain the nature of this unmet need, Southern Oregon State College has distributed 11,000 questionnaires to homes and industries in Medford asking a variety of questions concerning educational needs and interests, traditional and non-traditional, credit and non-credit, he said. Findings of this survey will be brought back to the Board's Committee and any findings not germane to the mission of Southern Oregon State College will be shared with other educational post-secondary institutions, public and private. He said he would like to be informed if this action were contrary to the Committee's views concerning Southern Oregon State College's role as a regional college.

President Sours introduced Mr. Gene Hopkins, general manager of the Greater Medford Chamber of Commerce. Mr. Hopkins read two letters addressed to President Sours, the first from John R. Holmes, president of Harry and David Bear Creek Orchards, which read as follows:

I understand the proposed master's degree in interdisciplinary studies has been called into question by the Oregon Educational Coordinating Commission and that it may not be available to students attending SOSC. You and I have discussed before our company's concern about the relative lack of ability to hold local college-trained people in our region of this state, our very own southwestern Oregon brain drain. One way to help overcome this problem, and indeed it is a problem for the future economic development of southern Oregon, surely is to provide a post-collegiate educational opportunity.

As I understand the proposed new degree, it would afford at little or no additional cost to the state, the System of Higher Education, or SOSC, an added and needed means for people to continue to upgrade and renew their education locally. Many of our own employees may wish to do this rather than commute 175 miles to Eugene to have such an opportunity. Moreover, people who wish to have this educational opportunity should not be required to spend time and tuition money on what for most would be irrelevant professional education courses. It seems to me that the interdisciplinary degree is eminently workable and it is precisely the kind of service that should be available from our regional college.

Your effort to achieve success in the outcome of this matter certainly has my support.

And a second letter, from Stephen W. Ryder, publisher of the Medford Mail Tribune, reading:

We understand that an informal public survey will soon be underway in the greater Medford area to determine the needs for further educational services from Southern Oregon State College. It is wholly consistent with our abiding interest in low-cost convenient and quality education to applaud this exploration by SOSC. Such off-campus extension course offerings can fill a genuine need as well as making maximum use of the considerable skills of your faculty. We look forward to learning the survey results with hope that respondents will encourage you to provide these further educational opportunities in this southern Oregon community.
Mr. Hopkins said these letters and others indicate the type of education citizens of southern Oregon are looking to Southern Oregon State College to provide. He said he felt these requests were entirely consistent with the direction outlined by the State Legislature in Senate Bill 224 creating the Economic Development Commission which emphasizes development of rural and undeveloped areas of the state. He said the work of the Chamber of Commerce has shown that education and educational institutions available in a community are very important in an industrial development program.

Mrs. Feves said she felt very strongly that the regional colleges should be able to serve the needs of their particular regions. She asked Dr. Sours if he felt the guidelines set down by the Board for the regional schools were sufficiently flexible to allow for needed change.

President Sours said he would like some opportunity for an immediate capacity to experiment. If an unidentified need suddenly becomes identified, he said, he felt the institutions ought to be able to test its resources to see if it could do something about it.

Mrs. Carpenter said a good many persons were deeply concerned about the problems of continuing education as it is now required to be financed. Under this arrangement, she said, continuing education has become unwieldy and oriented towards very specific types of courses that can be self-supporting. She asked Dr. Sours what changes he felt were needed to make continuing education a more useful educational tool.

President Sours responded that while he agreed that there must be statewide coordination of continuing education activities, each institution should have a central role to play in extending its services off campus, and should be endowed with flexibility within a broad Board-set framework for financing different kinds of off-campus activities. In response to further questions from Mrs. Carpenter, Dr. McGill said Southern Oregon State College feels its hands are tied in respect to serving the needs of people in its vicinity except as they might relate to non-credit activities.

In respect to the survey of educational needs in Medford, he said responses from about 10% of the persons surveyed received to date show about one-third of those looking for educational opportunities are interested in credit work and two-thirds in non-credit programs offering job training, vocational training, and similar activities.

Dr. Romney said Southern Oregon State College had not been restricted by statewide policy in going off-campus with non-credit services which, according to Dr. McGill's statement could account for about two-thirds of the needs in Medford. Dr. Sours agreed, saying the problem in serving non-credit needs has been one of funding. Dr. Romney explained, in response to questions from the Committee, that the Legislature determined three biennia ago that it would not continue to provide funds in support of courses, either credit or non-credit, offered off-campus by institutions of the State System of Higher Education except in the instance of the Cooperative Extension Service. A different funding policy exists for the community colleges, however, which may offer courses anywhere in their districts and receive state fund support on the same basis as they receive this support for courses offered on-campus. He said he felt some effort might be made in the 1977 Legislative Session to provide some state support for off-campus instruction offered by the institutions of the State System. Under present funding policies, however, all work offered off-campus must be self-supporting.

The Committee continued its discussion of policies in respect to course work offered off-campus. Mr. Joss said he felt it imperative that the Board be prepared to discuss these problems with the 1977 Legislature so the situation didn't remain in the status quo without any study or opportunity for change.
Mrs. Elizabeth Johnson, of the Educational Coordinating Commission, said it was very necessary for the state to develop guidelines for off-campus instruction, pointing out that this concerned not only the institutions of the State System but also the community colleges and private institutions.

Mr. Maden said competition between institutions in the System and the Division of Continuing Education would operate to the detriment of all.

Dr. Olson commented that the Commission and Commission staff have given high priority to trying to determine how to serve areas of the state which are underserved or not served at all. He said the initiative of Southern Oregon State College in making the survey of the Medford area is very desirable. It will be equally important, he said, to make an inventory of the educational resources available in that area so that effort is made to serve these needs in a cooperative fashion. That is what President Briggs is trying to do in the eastern Oregon area, he said, and from recent conversations with President Sours and President Pete of Rogue Community College this appears to be the direction in which the institutions are moving in southern Oregon.

A second concern of the Commission he said, is how residence requirements of the institutions relate to the role of the Division of Continuing Education. He suggested the Board might wish to reexamine its policies in this regard as it studies how best to meet off-campus educational needs.

Mr. Joss moved that the Committee recommend that the Board reaffirm guidelines for Eastern Oregon State College and Southern Oregon State College as adopted by the Board in January 1973; that it express its support for the endeavors of these two institutions to serve the needs of their respective regions as described in the report to the Committee; that the Board encourage cooperation among all the educational resources in these regions in the service of regional needs; that the Board commend Southern Oregon State College for the study of educational needs in the Medford area; that the Board's staff and the institutions endeavor to work out ways to permit the institutions more freedom to experiment with course material in meeting regional needs; and that the Board's staff be directed to review problems concerning continuing education and make recommendations to the Board with respect to (a) possible modification of the Board's policies in respect to continuing education and (b) continuing education funding, for possible consideration by the Legislature.

The motion was approved. Mrs. Carpenter, Mr. Joss, Mr. Harms, and Mrs. Feves voted aye. Mr. Maden abstained.

Mr. Harms noted that he did not consider the motion as foreclosing further Committee discussion of the role of the regional schools at some future date.

Board Discussion and Action

The Board approved the Committee recommendation as stated by Mr. Joss. The following voted in favor: Directors Carpenter, Feves, Harms, Ingalls, Maden, McIntyre, Stewart, and Layman. Those voting no: None. Director Perry was absent from the meeting at this time.

Report on Action of OECC As To New Programs

The Oregon Educational Coordinating Commission has reviewed twelve new programs approved by the Board for its institutions at the Board's January and March meetings, and has submitted to the President of the Board copies of its findings and recommendations.

Programs Reviewed by the Commission

Programs reviewed by the Commission at its March 5 meeting were:

- Option in Criminal Justice leading to the Master's and Ph.D. degrees in Urban Studies - Portland State University
Meeting #430-157

May 25, 1976

Master of Public Administration (MPA) degree program - Portland State University.

Programs reviewed by the Commission at its April 9 meeting were:

- Certificate in Human Services - Oregon State University
- BS in Biology - Oregon State University
- MS/MF/Ph.D. in Forest Science - Oregon State University
- Basic and Standard Teacher Certification Endorsements in Reading - Oregon College of Education
- MA/MS in Interdisciplinary Studies - Southern Oregon State College
- BA/BS in Geology - Southern Oregon State College
- BA/BS in Psychology - Eastern Oregon State College
- BS in Agribusiness - Eastern Oregon State College
- Associate in Science (AS) degree in Early Childhood Education - Eastern Oregon State College

Key Points in Commission Review

The Commission reviews programs in respect to the following:
- Intersegmental Impact
- Duplication
- Need
- Fiscal Impact
- Consistency with Statewide Policies and Objectives

None Would Have Significant Intersegmental Impact on Other Segments

The Board will recall that under the law, the Commission's review of a proposed new program is an advisory review - advisory to the segmental or governing boards - except in those instances in which the Commission makes a finding that the proposed program would have a significantly adverse impact on one or more other segments of education. In the latter case, the law provides that the Commission's authority is governing. Under this circumstance, the Commission has authority to approve or disapprove the offering of the proposed new program.

In none of the 12 programs listed above did the Commission find that there was any indication that the proposed program would have a significantly adverse impact on one or more other segments of education in Oregon. Hence, the Commission's role in these instances is advisory. The Board's decision is governing.

None Are Inconsistent With Statewide Policies/Objectives

Also, in none of the 11 programs whose review the Commission has completed was there any evidence that the program was inconsistent with the statewide policies and objectives. (The twelfth program - Associate degree program in Early Childhood Education at Eastern Oregon State College - has been only partially reviewed by the Commission staff and committee. It will be considered by the Commission committee at its May meeting.)

Areas of Further Exploration

In the protracted discussions between the Board's Office and the Commission staff and committee on program review during the review of these 12 programs, attention turned on several occasions to such matters as (1) the measurement of need, (2) the interpretation to be applied to the term "unnecessary duplication," (3) the
way in which fiscal data relating to proposed new programs should be displayed. On the last-named matter, Mrs. Johnson of the Commission has a proposal which the Commission will be discussing shortly.

Each of the foregoing matters will be the subject of further discussions and exchanges of views in the near future between representatives of the segments (Department of Higher Education, Department of Education, independent colleges and universities) and the Commission staff and committee on program review. The Board's staff will be pleased to provide the Board with information concerning the observations of the Commission concerning these matters as they were set forth in the review of the foregoing programs, but prefer to do so at the June meeting of the Board's Committee when we are hopeful that necessary time can be allowed on the Committee's agenda to permit a proper review, and when there shall have been some further clarification of these issues growing out of further talks between segmental and Commission personnel.

Board Discussion and Action

The Board received the report as presented, with the understanding that there be continuing staff contact between the Board and Commission to assure that there is no unnecessary duplication.

The following voted in favor of receiving the report: Directors Carpenter, Feves, Harms, Ingalls, Maden, McIntyre, Stewart, and Layman. Those voting no: None. Director Perry was absent from the meeting at this time.

Staff Recommendation to the Board

It was recommended that the appropriate Board officials be authorized to approve the drawings and specifications prepared by the staff architect of the Agricultural Experiment Stations of Oregon State University, solicit bids and award a contract for the construction of an industrial- or agricultural-type building for the sorting, cleaning, treatment and storage of cereal grains at the Hyslop Field Laboratory near Corvallis within an expenditure limitation of approximately $53,500 financed from funds available in the operating budget of the Agricultural Experiment Stations.

Board Discussion and Action

The Board approved the staff recommendation as presented, with the following voting in favor: Directors Carpenter, Feves, Harms, Ingalls, Maden, McIntyre, Stewart, and Layman. Those voting no: None. Director Perry was absent from the meeting at this time.

Staff Report to the Board

In response to legislative direction, increased support has been provided for cereal grain research by the Agricultural Experiment Station staff of Oregon State University. This has involved additional program support by the Oregon Wheat Commission and the U. S. Department of Agriculture. Consistent with this effort, it is proposed that additional facilities be constructed at the Hyslop Field Laboratory north of Corvallis and be used for the sorting, cleaning, treatment and storage of cereal grains. Drawings and specifications for the project have been completed by Eugene Gilstrap, staff architect, and construction bids are expected to be received on or about June 3, 1976. The unit would be either a steel- or wood-framed, metal-covered building on a concrete slab. It would contain approximately 6,480 square feet, and would be attached to an existing structure. The estimated cost of $53,500, including $49,700 for direct construction, would be financed from resources available within the operating budget of the Agricultural Experiment Stations at Oregon State University, subject to appropriate authorization by the Board and the State Emergency Board.
Mr. Layman announced that the next meetings of the Board's Committees would be held on June 21 and 22, 1976, at Portland State University. The Committee on Finance, Administration, and Physical Plant will meet on June 21 and the Committee on Instruction, Research, and Public Service Programs is scheduled for June 22.

The next regular meeting of the Board will be held on July 20, 1976, on the campus of the University of Oregon. Mr. Layman called attention to the fact that the location for this meeting had been changed from the schedule announced at the beginning of the year. He also reminded Board members that the July meeting is the time set for the annual election of officers under the statute and the Board's Administrative Rules. He indicated he would appoint a nominating committee within a few days to make recommendations for the positions of President, Vice President, and member of the Executive Committee.
Sale of
Zimmerman
Property,
Silverton,
Oregon, UO

Staff Report to the Board

At its January 20, 1976, meeting, the Board approved the staff recommendation to sell a 76-acre parcel of land located near Silverton, Oregon. The minimum acceptable terms approved by the Board were $70,000 total price, with 20% down payable on closing and the balance payable in semiannual installments including principal and interest at not less than 8% per annum over a period not to exceed 15 years.

On April 1, 1976, the highest bidder for the property and the Board's President and Secretary closed a land sale contract calling for a total contract price of $75,650, with $15,130 down (20%) and the remainder to be paid in equal semiannual installments of $3,500 including principal and interest at 8%. The final payment is due April 1, 1991.

Board Discussion and Action

The Board received the report as presented.

Report of Bids and Contract

At its January 20, 1976, meeting, the Board approved the staff recommendation to sell a 76-acre parcel of land located near Silverton, Oregon. The minimum acceptable terms approved by the Board were $70,000 total price, with 20% down payable on closing and the balance payable in semiannual installments including principal and interest at not less than 8% per annum over a period not to exceed 15 years.

On April 1, 1976, the highest bidder for the property and the Board's President and Secretary closed a land sale contract calling for a total contract price of $75,650, with $15,130 down (20%) and the remainder to be paid in equal semiannual installments of $3,500 including principal and interest at 8%. The final payment is due April 1, 1991.

Following the sale of Series 1976A bonds by the Board on April 29, a contract award was made to the lowest bidder and the following tentative budget was approved for the project:

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct construction costs - Marion Construction Co., Salem</td>
<td>$2,313,600</td>
</tr>
<tr>
<td>Professional services fees</td>
<td>217,268</td>
</tr>
<tr>
<td>Construction supervision and miscellaneous costs</td>
<td>68,147</td>
</tr>
<tr>
<td>Movable equipment</td>
<td>175,305</td>
</tr>
<tr>
<td>Contingencies</td>
<td>115,680</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$2,890,000</strong></td>
</tr>
</tbody>
</table>

These amounts exclude the intrafund transfer of approximately $880,000 which will be made pursuant to ORS 351.460 for the conversion of Snell Hall from student residence hall and cafeteria use to student union use.

All of the project expenditures will be financed from the proceeds of self-liquidating bonds issued under the provisions of Article XI-F(1) of the Oregon Constitution and/or from balances, including commingled student building fees, available for auxiliary enterprises, consistent with the program reviewed and approved previously by the Board and the Legislature.
The ground, first, second and third floor levels of Snell Hall, involving a total of approximately 29,856 square feet, will be remodeled under this contract to provide more adequate space for the student activities staff, student organization offices, program planning and service facilities for student publications and other communications (broadcast) media, as well as improved and enlarged areas for arts and crafts. After the remodeling is completed, the remainder of the building will continue to be used, at least temporarily, as a residence hall.

Included in the contract work is the construction of an addition, containing about 15,378 square feet, which will extend into the courtyard which now exists between Snell Hall and Snell Cafeteria. The first floor of this new structure will provide additional student activities offices, integrated with those planned at that level in the existing building, as well as two studios, service and storage areas for the student-operated television station. A partial lower floor, below grade, will house television operations and control functions and this portion of the building's mechanical equipment.

Approximately 12,836 square feet of space within the Snell Cafeteria will also be remodeled to improve the food service facilities and there will be general refurbishing and redecorating of this building. The entire Snell Hall facility will be made more accessible for the physically handicapped, as well as others, by the addition of elevators and treadle-operated entrance doors.

An elevator installation, with attendant access revisions involving about 2,284 square feet, will be accomplished within the Memorial Union Building in order to adapt that structure for greater use and enjoyment by physically handicapped persons.

RECAPITULATION UPON RECEIPT OF BIDS AND CONTRACT AWARD

Project - OSU Student Union Facilities
Architects - Jeppsen, Miller & Tobias, Corvallis
Board's priority - No. 7 in 1975-1977 (Auxiliary Enterprises)
Legislative authorization - Chapter 331, Oregon Laws 1975

Total project costs $2,890,000
Total direct construction costs $2,313,600
Total direct construction costs of addition and alterations exclusive of sitework $2,075,216

Cost per square foot for each portion of the work:
Snell Hall:
  Building Alterations 29,856 sq. ft. at $ 692,162 = $23.18 per sq. ft.
  Building Addition 15,378 sq. ft. at 794,473 = 51.66 per sq. ft.
  Cafeteria Alterations 12,836 sq. ft. at 468,190 = 36.47 per sq. ft.
  Sitework N. A. 218,997 = N. A.
  Subtotal $2,173,822

Memorial Union Building:
  Building Alterations 2,284 sq. ft. at $ 120,391
  Sitework N. A. 19,387
  Subtotal $139,778

  Total direct construction costs $2,313,600

Scheduled completion - July 1977

Tentative financing plan:
  Article XI-F(l) bond borrowings and/or balances available for auxiliary enterprises $2,890,000

Board Discussion and Action

The Board received the report as presented.
Report of Bids and Contract

Award for Safety Deficiency Corrections, Phase I (Weniger Hall Fume Collection System), OSU

Staff Report to the Board

Upon the recommendation of officials of Oregon State University, the final drawings and specifications for the improvements to the fume collection system within Weniger Hall, which had been prepared with the assistance of Morrison, Funatake & Associates, Inc., consulting engineers, Portland, were accepted on behalf of the Board. Three bids for the work were received in Corvallis on March 16, 1976, ranging from a low of $59,093 to a high of $89,879. An extension was included within the bid invitation as an allowance to provide for the possible replacement of certain fans should their condition warrant it following a more thorough inspection than was possible prior to the bid opening. The low bid was within the estimate and the funding resources available; therefore, a contract award was made and the following tentative budget was approved for the project:

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct construction costs - Armprist Sheet Metal, Salem</td>
<td>$59,093</td>
</tr>
<tr>
<td>Professional services fees</td>
<td>$5,319</td>
</tr>
<tr>
<td>Construction supervision and miscellaneous costs</td>
<td>$6,755</td>
</tr>
<tr>
<td>Contingencies</td>
<td>$2,133</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$73,300</strong></td>
</tr>
</tbody>
</table>

(1) Including an allowance of $9,311 for fan replacement of different types and sizes.

The work includes revising the fume hood exhaust system ductwork, adjusting and cleaning existing fans and the installation of new fans as demanded by their condition.

The estimated total budget of $73,300 is being charged against the expenditure limitation for safety deficiency corrections, Phase I, at Oregon State University, funded as part of the program authorized within Chapter 48, Oregon Laws 1975.

RECAPITULATION UPON RECEIPT OF BIDS AND CONTRACT AWARD

Project - OSU Safety Deficiency Corrections, Phase I (Weniger Hall Fume Collection System)

Engineers - Morrison, Funatake & Associates, Inc., Portland

Board's priority - Part of No. 1 in 1975-1977 (Educational and General Plant)

Legislative authorization - Chapter 48, Oregon Laws 1975

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total project costs</td>
<td>$73,300</td>
</tr>
<tr>
<td>Total direct construction costs</td>
<td>$59,093</td>
</tr>
<tr>
<td>Scheduled completion - October 1976</td>
<td>$36,650</td>
</tr>
</tbody>
</table>

Tentative financing plan:

- General Fund appropriation: $36,650
- Article XI-G bond proceeds

Total: $73,300

Board Discussion and Action

The Board received the report as presented.
Staff Report to the Board

Drawings and specifications for the correction of safety deficiencies within Lawrence Hall and the Library at the University of Oregon were prepared with the assistance of Marquess Engineering Company, Springfield, project engineers. This work was authorized by Chapter 48, Oregon Laws 1975. Upon the recommendation of institutional officials, these documents were accepted on behalf of the Board and bids for the work were opened in Eugene on April 8, 1976. Two separate basic bids were requested: Basic Bid "A" related to the installation of emergency lighting in the Library and fire detection systems in Lawrence Hall and the Library, and Basic Bid "B" was for the installation of an automatic fire sprinkling system in Lawrence Hall.

Three bids were received for Basic Bid "A", ranging from a low of $62,117 to a high of $75,280. Basic Bid "B" was quoted by five contractors in amounts ranging from $46,172 to $79,365. Inasmuch as the low bids were well within the engineers' estimates and the resources available for the work, contract awards were made and the following tentative budget was approved for the project:

Direct construction costs:
- Basic Bid "B" - Underwriters Fire Sprinkler Co., Springfield $46,172
- Total $108,289

Professional services fees $10,829
Construction supervision and miscellaneous costs $15,219
Contingencies $8,663
- Total $143,000

As noted, charges for this project are being made against the expenditure limitation authorized by Chapter 48, Oregon Laws 1975, for the correction of safety deficiencies.

RECAPITULATION UPON RECEIPT OF BIDS AND CONTRACT AWARDS

Project - UO Safety Deficiency Corrections, Phase I (Lawrence Hall and Library Fire Safety Improvements)

Engineers - Marquess Engineering Company, Springfield

Board's priority - Part of No. 1 in 1975-1977 (Educational & General Plant)

Legislative authorization - Chapter 48, Oregon Laws 1975

Total project costs $143,000
Total direct construction costs $108,289

Scheduled completion - October 1976

Tentative financing plan:
- General Fund appropriation within Chapter 48, Oregon Laws 1975 $71,500
- Article XI-G bond proceeds $71,500
- Total $143,000

Board Discussion and Action

The Board received the report as presented.
Upon the recommendation of institutional officials and Balzhiser & Colvin Engineering, Inc., project engineers, the work of the prime contractor for safety deficiency corrections work in Deady Hall and College of Education at the University of Oregon was accepted on behalf of the Board as of April 6, 1976, subject to the completion of minor items on the punchlist.

A revised semifinal project budget is shown below in comparison with the budget reported to the Board on November 25, 1975:

<table>
<thead>
<tr>
<th>Description of Cost</th>
<th>Revised Budget 4/6/76</th>
<th>Original Budget 11/25/75</th>
<th>Increase or Decrease</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct construction costs -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>National Automatic Sprinkler Co. of Oregon, Portland</td>
<td>$30,031</td>
<td>$30,031</td>
<td>$0</td>
</tr>
<tr>
<td>Professional services fees</td>
<td>3,003</td>
<td>3,003</td>
<td>0</td>
</tr>
<tr>
<td>Construction supervision</td>
<td>1,080</td>
<td>1,080</td>
<td>0</td>
</tr>
<tr>
<td>Physical Plant and miscellaneous costs</td>
<td>6,886</td>
<td>4,483</td>
<td>2,403</td>
</tr>
<tr>
<td>Contingencies</td>
<td>-</td>
<td>2,403</td>
<td>(2,403)</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>$41,000</strong></td>
<td><strong>$41,000</strong></td>
<td><strong>$0</strong></td>
</tr>
</tbody>
</table>

The work includes the installation of automatic fire sprinkler systems complete with alarm valves, alarm bells and hose connections for use by the fire department. It is part of the program for safety deficiency corrections, Phase I, authorized by Chapter 48, Oregon Laws 1975.

RECAPITULATION UPON INSPECTION AND ACCEPTANCE

Project - UO Safety Deficiency Corrections, Phase I, (Deady Hall and College of Education)

Engineers - Balzhiser & Colvin Engineering, Inc., Eugene

Board’s priority - Part of No. 1 in 1975-1977 (Educational & General Plant)

Legislative authorization - Chapter 48, Oregon Laws 1975

Estimated total project costs

Estimated total direct construction costs

Financing plan:

1. General Fund appropriation $20,500
2. Article XI-G bond proceeds 20,500
3. Total $41,000

Board Discussion and Action

The Board received the report as presented.
A revised semifinal project budget is shown below in comparison with the budget reported to the Board on January 20, 1976:

<table>
<thead>
<tr>
<th>Budget</th>
<th>Revised Budget</th>
<th>Original Budget</th>
<th>Increase or Decrease</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct construction costs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vik Construction Co., Eugene</td>
<td>$170,784</td>
<td>$165,300</td>
<td>$5,484 (1)</td>
</tr>
<tr>
<td>Professional services fees</td>
<td>19,579</td>
<td>24,768 (2)</td>
<td>(5,189)</td>
</tr>
<tr>
<td>Construction supervision</td>
<td>3,240</td>
<td>3,240</td>
<td></td>
</tr>
<tr>
<td>Physical Plant and miscellaneous costs</td>
<td>14,279</td>
<td>9,177</td>
<td>5,102</td>
</tr>
<tr>
<td>Movable equipment</td>
<td>6,000</td>
<td>6,000</td>
<td></td>
</tr>
<tr>
<td>Contingencies</td>
<td></td>
<td></td>
<td>(11,134)</td>
</tr>
<tr>
<td>Subtotals</td>
<td>$213,882</td>
<td>$219,619</td>
<td>$(5,737)</td>
</tr>
<tr>
<td>Reserved for 2nd Floor Remodel</td>
<td>63,118</td>
<td>57,381</td>
<td>5,737</td>
</tr>
<tr>
<td>Totals</td>
<td>$277,000</td>
<td>$277,000</td>
<td>$0</td>
</tr>
</tbody>
</table>

(1) Includes addition of a glulam beam and three timber columns, relocation of existing plumbing lines, addition of a new janitor's room, modifications to finish hardware requirements, additional refinishing of two existing offices, the addition of a new service bell, modifications to the electrical system to accommodate the replacement of improperly concealed wiring, installation of additional floor closure at the fifth floor in the archives area, revisions to mechanical ductwork to accommodate future work on the second floor, modifications to the painting schedule, and other minor modifications included within five approved change orders.

(2) Included estimated fee requirements for remodeling on second floor. (In the revised budget, such fees are combined with other amounts reserved for this additional work.)

The work completed included improvements in circulation, exiting and electrical wiring, increased fire-rating of partition construction, the enclosure of stairs and the installation of a fire detection system. The remodeling work created or renovated offices on the third floor and class/seminar rooms on the first floor. Additional work on the second floor, expected to be bid separately in the near future, will provide offices, a resource center and a lounge/conference room.

Of the total project costs, $137,000 was funded as a portion of the expenditure limitation for safety deficiency corrections, Phase I, authorized by Chapter 48, Oregon Laws 1975, and the remaining $140,000 was provided from the expenditure limitation for various campus buildings remodeling authorized by Chapter 331, Oregon Laws 1975.

RECAPITULATION UPON INSPECTION AND ACCEPTANCE

Project - UO Safety Deficiency Corrections, Phase I, and Various Campus Buildings Remodeling (portions for Fenton Hall)

Architects - Balzhiser, Longwood, Smith, Paul & Anderson, Eugene

Board's priority - Part of Nos. 1 and 4 in 1975-1977 (Educational & General Plant)

Estimated total project costs (including amount reserved for 2nd floor remodel, to be bid separately) $277,000
Meeting #430-166

Report of Bids
and Contract
Award for Safety
Deficiency
Corrections, Phase I, and Remodel (Condon Hall), UO

May 25, 1976

Estimated total direct construction costs (excluding remodeling work on 2nd floor, expected to be bid separately) $170,784

Financing plan:

General Fund appropriations:
Chapter 48, Oregon Laws 1975 $68,500
Chapter 331, Oregon Laws 1975 70,000
Subtotal $138,500
Article XI-G bond proceeds $138,500
Total $277,000

Board Discussion and Action

The Board received the report as presented.

Staff Report to the Board

With the assistance of Payne Setecase Smith & Partners, Salem, project architects, drawings and specifications were prepared for the correction of safety deficiencies and certain other remodeling within Condon Hall at the University of Oregon, authorized by Chapters 48 and 331, Oregon Laws 1975. Upon the recommendation of institutional officials, these documents were accepted on behalf of the Board and bids for the work were opened in Eugene on March 24, 1976. Five bids were received, ranging from a low of $151,250 to a high of $168,757 after deducting an alternate to omit work in a third floor classroom area.

A contract award was made to the lowest bidder and the following tentative budget was approved for the project:

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct construction costs - John T. Moody &amp; Sons Construction Co., Junction City</td>
<td>$151,650</td>
</tr>
<tr>
<td>Professional services fees</td>
<td>$15,165</td>
</tr>
<tr>
<td>Construction supervision and miscellaneous costs</td>
<td>$13,508</td>
</tr>
<tr>
<td>Equipment</td>
<td>$7,000</td>
</tr>
<tr>
<td>Contingencies</td>
<td>$8,677</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$196,000</strong></td>
</tr>
</tbody>
</table>

The work includes the installation of an elevator and the construction of ramps for improved access to the building by persons physically disabled, as well as the installation of fire detection equipment, emergency lighting, and a new exterior stairway. It also provides improvements to existing areas used for housing maps and documents, space for Cartography and the Upward Bound program, and two general purpose classrooms, one with 230 stations and the other with 53 stations.

Of the total project costs, $46,000 is being charged against the expenditure limitation for safety deficiency corrections, Phase I, authorized by Chapter 48, Oregon Laws 1975, and the remaining $150,000 is being charged against the expenditure limitation of $1,450,000 for various campus buildings remodeling authorized by Chapter 331, Oregon Laws 1975.

RECAPITULATION UPON RECEIPT OF BIDS AND CONTRACT AWARD

Project - UO Safety Deficiency Corrections, Phase I, and Remodel (Condon Hall)

Architects - Payne Setecase Smith & Partners, Salem

Board's priority - Part of Nos. 1 and 4 in 1975-1977 (Educational & General Plant)

Legislative authorization - Chapters 48 and 331, Oregon Laws 1975
Meeting #430-167
May 25, 1976

Total project costs $196,000
Total direct construction costs $151,650

Tentative financing plan:

General Fund appropriations:
- Chapter 48, Oregon Laws 1975 $23,000
- Chapter 331, Oregon Laws 1975 $75,000

Article XI-G bond proceeds

Total $196,000

Board Discussion and Action

The Board received the report as presented.

Report of Inspection and Acceptance of Safety Deficiency Correcions, Remodel (Gerlinger Hall), UO

Upon the recommendation of institutional officials and the SRG Partnership, project architects, the work of the prime contractor for safety deficiency corrections and other remodeling work in Gerlinger Hall at the University of Oregon was accepted on behalf of the Board as of March 9, 1976, subject to the completion of minor items on the punchlist. The work was inspected by the Vice Chancellor for Facilities Planning on behalf of the Board.

A revised semifinal project budget is shown below in comparison with the budget reported to the Board on November 25, 1975:

<table>
<thead>
<tr>
<th>Item</th>
<th>Revised Budget</th>
<th>Original Budget</th>
<th>Increase or (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct construction costs -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>John T. Moody &amp; Sons Construction Company, Junction City</td>
<td>$125,583</td>
<td>$115,800</td>
<td>$9,783 (1)</td>
</tr>
<tr>
<td>Professional services fees,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>including study applicable to</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>future remodeling</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction supervision</td>
<td>25,359</td>
<td>23,580</td>
<td>1,779</td>
</tr>
<tr>
<td>Physical Plant and miscellaneous</td>
<td>4,253</td>
<td>2,430</td>
<td>1,823</td>
</tr>
<tr>
<td>costs</td>
<td>8,671</td>
<td>9,400</td>
<td>(729)</td>
</tr>
<tr>
<td>Movable equipment</td>
<td>12,134</td>
<td>9,163</td>
<td>2,971</td>
</tr>
<tr>
<td>Contingencies</td>
<td>9,263</td>
<td>(9,263)</td>
<td></td>
</tr>
<tr>
<td>Subtotal</td>
<td>$176,000</td>
<td>$169,636</td>
<td>$6,364</td>
</tr>
</tbody>
</table>

Less - Portion applicable to 
remodeling near the East Lobby funded separately $35,000

Net project costs $141,000

(1) Includes work of additional demolition, addition of a new concrete floor slab between pool and locker room, replacement of a rotted wall with concrete block, additional patching of plaster walls and concrete floors, changes to time clock system to tie with central system, addition of an electrical load center panel to accommodate emergency electrical systems, addition of three locksets, addition of full walls at new offices in East Lobby area and other minor modifications included within three approved change orders.

The remodeling of the locker room made separate facilities available for men and women students. Other work accomplished included improvements in ventilation, circulation, exiting, and electrical wiring as well as increased fire-rating of partition construction.
Of the net project costs, $36,000 was funded as a portion of the expenditure limitation for safety deficiency corrections, Phase I, authorized by Chapter 48, Oregon Laws 1975, and the remaining $105,000 was financed within the expenditure limitation applicable to various campus buildings remodeling authorized by Chapter 331, Oregon Laws 1975. The work within the East Entry Lobby, in the amount of $35,000, was funded separately from the institution's Physical Plant budget for maintenance and operations.

RECAPITULATION UPON INSPECTION AND ACCEPTANCE

Project - UO Safety Deficiency Corrections, Phase I, and Various Campus Buildings Remodeling (portion for Gerlinger Hall)

Architects - SRG Partnership, Portland

Board's priority - Part of Nos. 1 and 4 in 1975-1977 (Educational & General Plant)

Legislative authorization - Chapters 48 and 331, Oregon Laws 1975

Estimated total project costs (net of work funded separately) $141,000

Estimated total direct construction costs (excluding remodeling work in East Entry, funded separately) $97,569

Financing plan:

<table>
<thead>
<tr>
<th>General Fund appropriations:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 48, Oregon Laws 1975</td>
<td>$18,000</td>
<td></td>
</tr>
<tr>
<td>Chapter 331, Oregon Laws 1975</td>
<td>52,500</td>
<td></td>
</tr>
<tr>
<td>Subtotal</td>
<td>$70,500</td>
<td></td>
</tr>
<tr>
<td>Article XI-G bond proceeds</td>
<td>70,500</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>$141,000</td>
<td></td>
</tr>
</tbody>
</table>

Board Discussion and Action

The Board received the report as presented.

Staff Report to the Board

Upon the recommendation of University of Oregon officials and Balzhiser & Colvin Engineering, Inc., project engineers, the work of the prime contractor for safety deficiency corrections work in McArthur Court was accepted on behalf of the Board as of April 6, 1976, subject to the completion of minor items on the punchlist.

A revised semifinal project budget is shown below in comparison with the budget reported to the Board on January 20, 1976:

<table>
<thead>
<tr>
<th></th>
<th>Revised Budget 4/6/76</th>
<th>Original Budget 1/20/76</th>
<th>Increase or (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct construction costs -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>McPheeters Electric Co., Eugene</td>
<td>$47,087</td>
<td>$45,990</td>
<td>$1,097 (1)</td>
</tr>
<tr>
<td>Professional services fees</td>
<td>4,709</td>
<td>4,599</td>
<td>110</td>
</tr>
<tr>
<td>Construction supervision</td>
<td>2,430</td>
<td>2,430</td>
<td>0</td>
</tr>
<tr>
<td>Physical Plant and miscellaneous costs</td>
<td>6,774</td>
<td>4,502</td>
<td>2,472</td>
</tr>
<tr>
<td>Contingencies</td>
<td></td>
<td>3,679</td>
<td>(3,679)</td>
</tr>
<tr>
<td>Totals</td>
<td>$61,000</td>
<td>$61,000</td>
<td>$0</td>
</tr>
</tbody>
</table>
(1) Includes the installation of additional exit lights, separation of circuits to relieve overloading, change in an electrical panel to provide more modern circuit breakers (thus relieving overloading), modification to a main switch to accommodate the installation of a transformer having a higher impedance rating than specified, and other minor modifications included within two approved change orders.

The work included the installation of a generator for emergency electrical power, improvements to emergency and exit lighting and the upgrading of a portion of the general building electrical system.

The total project costs of $61,000 were funded as part of the program for safety deficiency corrections, Phase I, authorized by Chapter 48, Oregon Laws 1975.

RECAPITULATION UPON INSPECTION AND ACCEPTANCE

Project - UO Safety Deficiency Corrections, Phase I, McArthur Court Electrical System Improvements

Engineers - Balzhiser & Colvin Engineering, Inc., Eugene

Board's priority - Part of No. 1 in 1975-1977 (Educational & General Plant)

Legislative authorization - Chapter 48, Oregon Laws 1975

Estimated total project costs $61,000

Estimated total direct construction costs $47,087

Financing plan:
- General Fund appropriation $30,500
- Article XI-G bond proceeds 30,500
- Total $61,000

Board Discussion and Action

The Board received the report as presented.

Staff Report to the Board

Upon the recommendation of officials of the University of Oregon Health Sciences Center and Daniel, Mann, Johnson & Mendenhall/Hilton, project architects, the work of the prime contractor for the Ophthalmology Clinic Expansion at the University Hospital South was accepted on behalf of the Board as of March 29, 1976, subject to the completion of minor items on the punchlist. The work was inspected by the Vice Chancellor for Facilities Planning on behalf of the Board.

A revised semifinal project budget is shown below in comparison with the adjusted budget reported to the Board on August 26, 1975:

<table>
<thead>
<tr>
<th></th>
<th>Revised Budget 3/9/76</th>
<th>Original Budget (Adjusted 8/26/75)</th>
<th>Increase or Decrease</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct construction costs - Bart Hess Building Contractor, Portland</td>
<td>$284,108</td>
<td>$262,344</td>
<td>$21,764 (1)</td>
</tr>
<tr>
<td>Professional services fees</td>
<td>29,000</td>
<td>28,000</td>
<td>1,000</td>
</tr>
<tr>
<td>Construction supervision</td>
<td>5,009</td>
<td>7,500</td>
<td>-2,491</td>
</tr>
<tr>
<td>Physical Plant and miscellaneous costs</td>
<td>11,883</td>
<td>4,000</td>
<td>7,883</td>
</tr>
<tr>
<td>Contingencies</td>
<td>-</td>
<td>28,156</td>
<td>28,156</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>$330,000</strong></td>
<td><strong>$330,000</strong></td>
<td><strong>$0</strong></td>
</tr>
</tbody>
</table>
(1) Includes the reinstatement of a bid alternate to provide additional casework, modifications to welding process due to field conditions, addition of electrical outlets, provisions for additional structural capacity to hang surgical light with TV boom, addition of sign painting, addition of cost of inspection and testing of welds at steel work, and other minor modifications included within four approved change orders.

The indicated total of $330,000, which excludes donated furnishings and equipment, corresponds with the expenditure limitation approved by the Board and the State Emergency Board. (Authorization to proceed with the project within the amount of $315,000 approved by the 1973 Legislature was obtained at the January 7, 1975, meeting of the State Emergency Board and an expenditure limitation increase of $15,000 was authorized at their September 12, 1975, meeting.)

The project provides an addition of approximately 3,563 square feet of gross area in new construction on the tenth floor of University Hospital South, utilizing space which was a roof deck of the East Wing. Construction was accomplished utilizing concrete and steel in order not to impair the future vertical expansion capacity of this wing. The exterior appearance and the interior finishes match those of the existing building.

The new space, adjacent to the existing Adult and Children's Eye Clinics, provides approximately 2,000 square feet occupied by the new Children's Eye Clinic and Center identified with the Elks Vision for the Future program which has provided extensive financial support to the Medical School for many years. Three rooms on the south side of the new space are occupied by photographic, optics, prosthetics, and instrument laboratories. Five examining rooms, two staff offices, three waiting rooms, a visual fields room, a dark room, a nurses' station, and a utility room comprise the remainder of the space. Minor remodeling was accomplished within the existing tenth floor area to provide staff access and the integration of new spaces with the existing clinic areas.

All of the funds required for the project were provided from gifts and grants in accordance with the financing plan approved by the Board on May 20, 1975, and August 26, 1975. No state tax funds were involved in the construction.

RECAPITULATION UPON INSPECTION AND ACCEPTANCE

Project - UOHS Ophthalmology Clinic Expansion  
Architects - Daniel, Mann, Johnson & Mendenhall/Hilton, Portland  
Board's priority - No. 19 in 1973-1975 (Educational and General Plant)  
Legislative authorization - Chapter 592, Oregon Laws 1973

Estimated gross area - 3,563 square feet  
Estimated total project costs $330,000  
Direct construction costs - Total $284,108  
Average (per square foot) - $79.74

Financing plan:  
Gifts and Grants:  
- UO Medical School Advancement Fund $80,000  
- B.P.O.E. contributions $85,000  
- Watzek Ophthalmology Endowment Income $54,000  
- Weeks Ophthalmology Fund $64,500  
- Watzek Reserve for Ophthalmology $46,500  
Total $330,000

Board Discussion and Action  
The Board received the report as presented.
Meeting #430-171

Report of Staff Report to the Board

Appointment of Architects for Dental School Building Remodeling, UOHS C

Upon the recommendation of institutional officials, arrangements have been made for the professional services of Wolff/Zimmer/Gunsul/Frasca Partnership, Architecture and Planning, Portland, in the design and contract administration of the proposed remodeling of areas within the ground floor of the Dental School Building for the Department of Continuing Education at the University of Oregon Health Sciences Center. The space was used as a cafeteria initially, but has not been used for this purpose for several years and is available for remodeling to accommodate the continuing education program.

For their services, the architects are being compensated on a time and materials basis within a maximum of ten percent of the direct construction costs (tentatively estimated at approximately $180,000).

All of the funds required for the planning and remodeling are being provided from gifts obtained through the assistance of the Alumni Association of the School of Dentistry. It is expected that the schematic design phase of planning will be reviewed with the Board's Committee on Finance, Administration and Physical Plant in the near future and that authorization to proceed with the project during this biennium will be requested from the Board and the State Emergency Board.

Board Discussion and Action

The Board received the report as presented.

Report of Appointment of Engineers for Correction of Safety Deficiencies, UOHS C

Upon the recommendation of officials of the University of Oregon Health Sciences Center, arrangements have been made for the professional services of Bhupindar S. Dhillon, dba Dhillon Engineers, Portland, to assist in the study, preparation of drawings, specifications and cost estimates, and in contract administration, of the up-grading of the emergency power distribution system for University Hospital South. This work is part of the program authorized by the 1975 Legislature for the correction of safety deficiencies.

The professional services are to be provided on a time and materials basis within a maximum of $12,445 for the study, including an in-depth analysis of the existing system, an evaluation of feeder size and overload protection, along with recommendations and preliminary cost estimates, and within a maximum of ten percent of the direct construction costs for design and contract administration.

Funds required for the planning are being provided from the General Fund appropriation within Chapter 48, Oregon Laws 1975.

Board Discussion and Action

The Board received the report as presented.

Report of Bids and Contract

Award for Utility Improvements (Monitoring System), PSU

Under the provisions of Chapter 592, Oregon Laws 1973, the Legislature authorized funds for improvements to the central steam distribution system and the first phase of a central mechanical and electrical monitoring system at Portland State University. The full amount of the expenditure limitation for these utility improvements, $450,000, was released by the State Emergency Board on May 10, 1974.

As reported to the Board on January 20, 1976, the steam system improvements portion of this project was completed and was accepted on November 25, 1975. The costs thereof totaled $371,526, leaving a balance of $78,474 available for the initial development of the central monitoring system.
Specifications for the monitoring system were prepared by the professional staff of the Physical Plant Department, Portland State University, with assistance from C. W. Timmer & Associates, consulting engineers, Portland. Based upon these documents, six firms submitted one or more bids on January 20, 1976. After a very lengthy review and comprehensive analysis of the various proposals received, and following appropriate clearances from the Data Services Division, the Executive Department and the Legislative Fiscal Office, a contract award in the amount of $74,960 was made on April 19, 1976, to International Business Machines Corporation which will utilize field components manufactured by the Powers Regulator Company.

The contract will provide the core of a centralized, computer-based, real-time monitoring system which ultimately will monitor, control and optimize over 200 existing campus mechanical and electrical systems and any future systems added. When fully developed at some future time, the system will enable the Physical Plant staff to manage and troubleshoot installed systems more effectively, refine and expand energy conservation programs, implement a maintenance management system and monitor heating and cooling equipment, boilers, chillers, fans, pumps, compressors, elevators, fire alarms, primary electrical power distribution, security, scientific experiments, cold rooms, etc.

Of the total project cost, $30,000 is being provided from restricted funds available for auxiliary enterprises and the remainder is being financed in equal shares from the General Fund appropriation within Chapter 592, Oregon Laws 1973, and from proceeds from the sale of bonds under the provisions of Article XI-G of the Oregon Constitution.

Board Discussion and Action

The Board received the report as presented.

Sale of Hershey Property, Ventura County, California, PSU

Staff Report to the Board

On September 23, 1975, the Board approved a staff recommendation to invite bids for the purchase of 4.83 acres of unimproved real property bequeathed (to Portland State University) on November 26, 1974, as part of the Virginia S. Hershey estate. Minimum terms of the proposed sale approved by the Board were $8,500 for a cash sale and $11,000 under an installment sale contract.

Subsequently, the Board's staff invited bids by placing legal notices and classified advertisements four successive weeks in four area newspapers. Since no bids were received by the November 24, 1975, advertised deadline for acceptance of bids, the Board's Office, acting under authority of ORS 273.216 as interpreted by Assistant Attorney General Edward Branchfield took steps to "sell such property in such manner as it considers appropriate...[at] not less than the minimum terms offered in the notice of sale...."

Escrow was completed March 9, 1976, with receipt of a check for $7,568.77 representing the proceeds after deductions for costs associated with the sale.

Board President George Layman and Board Secretary Don Larson signed the grant deed February 10 and February 17, 1976, respectively.

Board Discussion and Action

The Board received the report as presented.

Report of Bids and Contract Award for Recreation Area Security Fencing, SOSC

Staff Report to the Board

Drawings and specifications for the installation of security fencing around the main track and football field area at Southern Oregon State College were prepared by the Physical Plant Department. Upon the recommendation of institutional officials, these documents were accepted on behalf of the Board and bids for
the work were opened in Ashland on March 11, 1976. Nine bids were received, ranging from a low of $10,255 to a high of $22,000. A contract award was made to the lowest bidder and the following tentative budget was approved for the project:

| Direct construction costs - Hudson Bay Fence Company, Vancouver, Washington | $10,255 |
| Construction supervision and miscellaneous costs | $2,733 |
| Contingencies | $512 |
| **Total** | **$13,500** |

The work of the contract includes the installation of approximately 2,000 lineal feet of eight-foot high fence with gates around the main track and football field area. The fencing is needed to protect those recreational facilities from unwarranted use and for crowd control at athletic events.

Consistent with the action of the Board on November 26, 1974, when authorization was obtained for the allocation of building fees to cover a portion of the cost of the project, the financing plan involves participation from several sources of funds in recognition of the joint use of the facilities for multiple purposes, as follows:

<table>
<thead>
<tr>
<th>Type of Use</th>
<th>Source of Funds</th>
<th>% of Total</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recreational use</td>
<td>Commingled student building fees</td>
<td>45%</td>
<td>$6,075</td>
</tr>
<tr>
<td>Physical Education classes</td>
<td>Board’s Reserve for Physical Plant Rehabilitation and Minor Capital Outlay</td>
<td>34%</td>
<td>$4,590</td>
</tr>
<tr>
<td>Athletics</td>
<td>Incidental fees</td>
<td>21%</td>
<td>$2,835</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td></td>
<td><strong>100%</strong></td>
<td><strong>$13,500</strong></td>
</tr>
</tbody>
</table>

The use of incidental fees for the share of the costs applicable to athletics was approved by the student government at Southern Oregon State College.

RECAPITULATIATION UPON RECEIPT OF BIDS AND CONTRACT AWARD

Project - SOSC Recreation Area Security Fencing

Board's priority - None

Legislative authorization - None required

Total project costs | $13,500
Total direct construction costs | $10,255

Scheduled completion - July 1976

Tentative financing plan:

- Commingled student building fees: $6,075
- Board’s reserve for physical plant rehabilitation and minor capital outlay: $4,590
- Incidental fees: $2,835

Total: $13,500

Board Discussion and Action

The Board received the report as presented.
Discontinuance of Supplemental Commercial Insurance on Self-Supporting Buildings Financed by XI-F(l) Bonds

(Considered by Committee on Finance, Administration, and Physical Plant, April 29, 1976; present--Perry, Harms, Ingalls, McIntyre, McLaurin.)

Staff Recommendation to the Committee

It was recommended that the supplemental fire and extended coverage commercial insurance presently carried on self-supporting dormitories, student centers, parking structures, and similar type facilities financed by XI-F(l) G/O Bonds be discontinued as of July 1, 1976.

Discussion and Recommendation by the Committee

It was the consensus of the Committee that the staff report should be received and transmitted to the Board without requiring Board action.

Board Discussion and Action

The Board received the report as presented.

Staff Report to the Committee

At the December 9, 1947, meeting, the Board directed that supplemental commercial insurance should be carried on self-supporting dormitory properties. This action was taken because at that time the State Restoration Fund, a self-insuring program for all state properties, had virtually no cash reserves, and was also limited by state statute to a $100,000 annual assessment for the payment of fire losses.

The need for supplemental commercial insurance was again reviewed by the Board at the June 12, 1962, meeting. The statutory limit on the annual assessment had now been changed to $400,000 and the cash reserves had reached the $3,000,000 ceiling, after which the annual assessment would not be levied until the fund balance dropped below the statutory ceiling. Although the Restoration Fund financial status had improved considerably since 1947, the Board concluded that the $30,000,000 of supplementary commercial insurance on Higher Education self-supporting buildings should be continued.

Since the last review of the supplemental commercial insurance by the Board in 1962, state statutes governing the Restoration Fund have been substantially modified. The lump sum levy method has been changed to a rate assessment basis applied to the replacement cost of the properties protected. The fund balance, currently invested to yield about 8% per annum, has built up to more than $8,500,000. Commercial excess insurance of $35,000,000 has been purchased by the fund to protect against catastrophic losses. The previous statutory provisions allowing an 80% discount on the fund assessment rate for property covered by supplemental insurance has been changed to a discount of not less than 40%. The State Department of General Services, as the administrator of the fund, has advised Higher Education that the maximum discount for buildings covered by supplemental commercial insurance will be only 50%, effective July 1, 1976.

Higher Education currently has in force supplemental insurance on $187,305,000 of self-supporting buildings. In 1976-77, the Restoration Fund assessment at the current rate of 10¢ per hundred would be $187,305. If the commercial insurance is renewed on July 1, 1976, at the current premium rates, combined costs of the commercial insurance and the 50% payment to the Restoration Fund will be $193,111 or an additional cost of $5,806 per year. The loss experience on these buildings, constructed primarily of reinforced concrete, has been very low. The commercial insurance carrier over the past eight years paid only one small claim of $3,698. All other losses, including losses below the $5,000 commercial policy deductible, were paid by the Restoration Fund.
Condition of Board's Special and Plant Rehabilitation Reserves

I. Board's Unallocated Reserve

(No funds reserved in allocation plan for year 1975-76.)

II. Board's Reserve for Plant Rehabilitation

Balance reported as of March 23, 1976 $43,250
Add: Partial return of SOSC allocation for fencing physical education area following receipt of bids 910
Less: Allocation to SOSC to participate in costs of traffic signals at Siskiyou and Mountain Boulevards, as approved by Board action on March 23, 1976 2,750
Balance estimated as of May 25, 1976 $41,410

III. Computer Systems Development

Balance reported as of March 23, 1976 $70,500
Balance estimated as of May 25, 1976 $70,500

Board Discussion and Action

The Board received the report as presented.

Staff Report to the Board

Rental rates for married student housing are established under the following Board policy:

The rental rates for married student housing at each institution should be established for each fiscal year by the institutional executives, with the approval of the Chancellor and report to the Board by June 1 of the preceding fiscal year.

Married student housing rental rates for 1976-77 at Southern Oregon State College and Eastern Oregon State College will remain as currently charged for 1975-76. The University of Oregon and Oregon State University have scheduled public hearings to consider proposed rate increases for 1976-77.

The following is a schedule of the proposed rates for 1976-77:

<table>
<thead>
<tr>
<th>Institution</th>
<th>One Bedroom</th>
<th>Two Bedrooms</th>
<th>Three Bedrooms</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Oregon*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Westmoreland</td>
<td>($85)</td>
<td>($105)</td>
<td>$113.50</td>
</tr>
<tr>
<td>Amazon</td>
<td>(54) 60</td>
<td>(60) 70</td>
<td>(77.50) 80</td>
</tr>
<tr>
<td>Oregon State University*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Orchard Court</td>
<td>(90) 100</td>
<td>(104) 115</td>
<td>(119) 130</td>
</tr>
<tr>
<td>Southern Oregon State College</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>College Court</td>
<td>--</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>Eastern Oregon State College</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eocene Court, New Units</td>
<td>--</td>
<td>95</td>
<td></td>
</tr>
<tr>
<td>Eocene Court, Old Units</td>
<td>50</td>
<td>60-70**</td>
<td></td>
</tr>
</tbody>
</table>

* Current rates in parenthesis. (Proposed rates subject to confirmation or change following public hearing on May 17.)
** The rate differential is based upon quality of accommodations.

Board Discussion and Action

The Board received the report as presented.
### SUMMARY OF GIFTS AND GRANTS
TO DATE FOR YEAR 1975-76

<table>
<thead>
<tr>
<th>Meeting Date</th>
<th>Meeting Total</th>
<th>Cumulative Total for Current Year</th>
<th>Comparable Cumulative Total for Preceding Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 22, 1975</td>
<td>$13,636,435.23</td>
<td>$13,636,435.23</td>
<td>$8,914,842.74</td>
</tr>
<tr>
<td>September 23, 1975</td>
<td>$18,196,102.74</td>
<td>$31,832,537.97</td>
<td>$30,491,269.52</td>
</tr>
<tr>
<td>November 25, 1975</td>
<td>$16,197,215.73</td>
<td>$48,029,753.70</td>
<td>$42,612,625.14</td>
</tr>
<tr>
<td>January 20, 1976</td>
<td>$ 7,483,854.31</td>
<td>$55,513,608.01</td>
<td>$50,951,212.86</td>
</tr>
<tr>
<td>March 23, 1976</td>
<td>$ 7,525,918.03</td>
<td>$63,039,526.04</td>
<td>$58,518,200.21</td>
</tr>
<tr>
<td>May 25, 1976</td>
<td>$ 6,828,091.38</td>
<td>$69,867,617.42</td>
<td>$64,404,418.35</td>
</tr>
</tbody>
</table>
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 is recommended that the Secretary of the Board be authorized to call upon the institutions to make suitable acknowledgement on behalf of the Board to the donors and grantors.

**BOARD ACTION:**

**Oregon State University**

**Benton Linn Community Service Agency**

Grant of $2,355 from the Benton Linn Community Service Agency, Corvallis, "to improve nutrition of pregnant and lactating disadvantaged residents of Linn County through prenatal nutrition education and food distribution," January 15 through June 30, 1976, under the direction of Mrs. Gloria Shibley, Linn County Extension Agent.

**Central Lincoln, Clatskanie, Northern Wasco, and Tillamook People's Utility Districts**

Grant of $155,678.30 from the Central Lincoln, Clatskanie, Northern Wasco, and Tillamook People's Utility Districts, Tillamook, for research entitled, "Wind Power Potential in Selected Areas of Oregon," January 1 through December 31, 1976, under the direction of Dr. E. Wendell Hewson, Professor, Atmospheric Science.

**Jones & Stokes Associates, Inc.**

Grant of $800 from Jones & Stokes Associates, Inc., Sacramento, California, "for an archeological reconnaissance survey along the coastal strip in Lincoln County, Oregon," March 15 through March 26, 1976, under the direction of Dr. Richard E. Ross, Department of Anthropology.

**National Aeronautics and Space Administration**

Grant of $100,000 from the National Aeronautics and Space Administration, Washington, D.C., for research entitled, "The Development and Operation of an Environmental Remote Sensing Application Laboratory," April 1, 1976, through March 31, 1977, under the direction of Mr. Barry J. Schrumpf, Acting Director, Environmental Remote Sensing Application Laboratory.

**National Council of the Paper Industry for Air and Stream Improvement, Inc.**

Grant of $9,335.73 from the National Council of the Paper Industry for Air and Stream Improvement, Inc., New York, for "Sulfite Waste Research," January 1 through March 31, 1976, under the direction of Dr. James G. Knudsen, Associate Dean of Engineering.

**National Oceanic and Atmospheric Administration**

Grant of $57,600 from the National Oceanic and Atmospheric Administration, Rockville, Maryland, for the "Pacific Sea Grant Advisory Program-Phase IV," January 1 through December 31, 1976, under the direction of Dr. Kenneth S. Hilderbrand, Head, Marine Advisory Program.

**National Science Foundation**

Grants totaling $228,360 from the National Science Foundation, Washington, D.C., for research and other purposes, as follows:

1. **$18,100** - "International Southern Ocean Studies (ISOS): Theoretical Studies of Time-Dependent Flow in the Vicinity of Drake Passage," February 1, 1976, through July 31, 1977, under the direction of Dr. John S. Allen, Associate Professor of Oceanography.

2. **$35,000** - "For the purchase of specialized equipment," February 15, 1976, through July 31, 1977, under the direction of Dr. R. W. Newburgh, Head of Biochemistry and Biophysics.

4. $12,360 - "Undergraduate Research Participation Training Project," March 11, 1976, through May 31, 1977, under the direction of Dr. Walter D. Loveland, Associate Professor of Chemistry.

5. $55,400 - "Potassium-Argon Dating of Oceanic Rocks," February 1, 1976, through July 31, 1977, under the direction of Dr. Jack Dymond, Associate Professor of Oceanography.

6. $25,000 - "For the purchase and repair of Oceanographic equipment," July 1, 1976, through June 30, 1977, under the direction of Captain Richard Redmond, Senior Instructor in Oceanography.

7. $16,600 - "Intramolecular Cyclizations of Organo-metallic Compounds," December 1, 1976, through November 30, 1977, under the direction of Dr. Stanley E. Wilson, Assistant Professor of Chemistry.

8. $4,600 - "Invertebrate Mechanisms of Internal Defense," September 1, 1975, through February 28, 1977, under the direction of Dr. C. J. Bayne, Assistant Professor of Zoology.

9. $43,100 - "Recorded History of Explosive Island Arc Eruptions in Ash Layer Sequences in Deep-Sea Sediments," April 1, 1976, through September 30, 1978, under the direction of Dr. Kenneth F. Scheidegger, Research Associate in Oceanography, and Dr. John B. Corliss, Assistant Professor of Oceanography.

Oregon Arts Commission Grant of $1,000 from the Oregon Arts Commission, Salem, "to present to the public a theatre touring group dramatizing the settlement and development of the Oregon territory," March 1 through September 5, 1976, under the direction of Dr. C. V. Bennett, Associate Professor of Speech Communication.

Oregon Committee for the Humanities Grant of $10,240 from the Oregon Committee for the Humanities, Portland, for a project entitled, "Dingbats, Dolls, Domestics: Television's Portrayal of Women," March 4 through June 30, 1976, under the direction of Mrs. Vida J. Krants, Program Coordinator, Women's Studies.

Oregon State Dept. of Education Grants totaling $25,441 from the Oregon State Department of Education, Salem, for the following purposes:

1. $4,518 - "Improving Vocational Instructional Competencies," February 10 through September 30, 1976, under the direction of Dr. Arnie Heuchert, Instructor, Vocational Education.

2. $5,373 - "Competency-Based Associate Degree Teacher Education Program," August 1, 1975, through June 30, 1976, under the direction of Dr. Arnie Heuchert, Instructor, Vocational Education.

3. $15,550 - "Prepare a Cadre of Leaders to Work with Vocational Personnel in Cooperative Work Experience and Community Resources," February 10 through September 30, 1976, under the direction of Dr. Arnie Heuchert, Instructor, Vocational Education.

Oregon State Manpower Planning Division Grant of $395,170.35 from the Oregon State Manpower Planning Division, Salem, "for employment training for low-income youth," February 1 through June 30, 1976, under the direction of Mr. James McAlister, CETA Coordinator.

Oregon State Public Welfare Division Grant of $8,499 from the Oregon State Public Welfare Division, Salem, "for the conduct of a survey of all Oregon pharmacies participating in the state's medical assistance program," March 22 through August 31, 1976, under the direction of Dr. Lee R. Strandberg, Assistant Professor of Pharmaceutical Science.
Grant of $5,000 from Pacific Northwest Bell, Seattle, Washington, for the "Willamette Simulation Unit," beginning March 1, 1976, under the direction of Mr. C. C. Calligan, Director, Willamette Simulation Unit.

Grant of $20,000 from the Port of Brookings, Brookings, "for a monitoring program to determine water quality maintenance at the Port of Brookings Marina," January 1 through June 30, 1976, under the direction of Dr. Larry Slotta, Director, Ocean Engineering.

Grant of $30,000 from the Rockefeller Foundation, New York, "for research on alternative approaches to the prevention and control of air pollution in the Willamette River basin region of Oregon," February 17 through December 31, 1976, under the direction of Dr. T. P. Kistner, Associate Professor of Veterinary Parasitology.

Grant of $11,606 from the Smith Kline Animal Health Products, Westchester, Pennsylvania, for research entitled, "The Bionomics, Pathogenicity and Control of Ruminant Helminth Parasites: To Evaluate the Anthelmintic Action of SKF62979 in Cattle Harboring Fasciola Hepatica," September 1, 1975, through August 31, 1976, under the direction of Dr. T. P. Kistner, Associate Professor of Veterinary Parasitology.

Grant of $2,500 from the State of Alaska Department of Education, Juneau, Alaska, "for a training project in Vocational Education," January 1 through May 31, 1976, under the direction of Dr. E. Wayne Courtney, Coordinator of Vocational Education.

Grant of $19,980 from the Swiss Federal Institute for Reactor Research, Switzerland, for research entitled, "Heat Transfer in Sphere Reactor Pins," January 1 through December 31, 1976, under the direction of Dr. Kenneth L. Peddicord, Assistant Professor of Nuclear Engineering.

Grant of $9,658 from Syntex Research, Palo Alto, California, for research entitled, "The Bionomics, Pathogenicity, and Control of Ruminant Helminth Parasites: To Evaluate the Anthelmintic Activity of Syntex Compound RS-8858 Against Inhibited Larvae in Naturally Infected Cattle," October 1, 1975, through September 30, 1976, under the direction of Dr. T. P. Kistner, Associate Professor of Veterinary Parasitology.

Grant of $6,164 from Theta Resource, Inc., Beaverton, for research entitled, "Geophysical Measurements in the Ivanpah Valley, California," April 1 through September 30, 1976, under the direction of Dr. Richard W. Couch, Associate Professor of Geophysical Oceanography.

Grants totaling $36,956 from the U. S. Department of Agriculture, Portland, for the following purposes:

1. $1,000 - "For an inventory and mapping of the surface resources of the Calapooya Creek Watershed, Douglas County, Oregon," February 11 through June 30, 1976, under the direction of Dr. Barry J. Schnlpf, Director, Environmental Remote Sensing Application Laboratory.

2. $29,230 - "To develop an animal-damage control program for Region 5," July 1, 1976, through June 30, 1977, under the direction of Dr. J. R. Dilworth, Head, Forest Management Department.

3. $6,726 - "Regulation of Bud Bursting Time of Douglas-fir and Grand Fir," March 12, 1976, through March 11, 1977, under the direction of Dr. Michael Newton, Associate Professor of Forest Ecology.

Grant of $162,156 from the U. S. Department of the Air Force, Hanscom Air Force Base, Massachusetts, for research entitled, "Growth of Pure Single Crystals of Alkali Halides and Alkaline Earth Fluorides," March 1, 1976, through June 1, 1978, under the direction of Dr. William J. Fredericks, Professor of Chemistry.
Grants totaling $94,562 from the U. S. Department of the Interior, Washington, D. C., for the following purposes:

1. $43,520 - "Ecological Evaluation of Wildlife Populations and Habitats Affected by Highway Development in Major Geographical Areas of the United States," February 16, 1976, through February 15, 1977, under the direction of Dr. E. Charles Meslow, Acting Director, Oregon Cooperative Wildlife Research Unit.

2. $44,047 - "Minimizing Total Energy Requirements of Irrigation Water Management Systems," April 1, 1976, through March 31, 1979, under the direction of Dr. Robert B. Wensink, Assistant Professor of Agricultural Engineering, and Dr. John W. Wolfe, Professor of Agricultural Engineering.

3. $6,995 - "Archeological Survey of the John Day Fossil Beds National Monument," March 1 through November 1, 1976, under the direction of Dr. Wilbur A. Davis, Professor of Anthropology.

Grant of $100,000 from the U. S. Department of Labor, Washington, D. C., "for the conduct of a training and certification program in manpower management," July 1, 1976, through June 30, 1977, under the direction of Dr. Gary W. Sorenson, Chairman, Economics Department.

Grant of $5,280 from the U. S. Department of the Navy, Washington, D. C., "for Dr. Joseph W. Nibler to become familiar with and to exploit a new spectroscopic technique called Coherent Anti-Stokes Raman Spectroscopy," August 15, 1975, through July 15, 1976, under the direction of Dr. David P. Shoemaker, Head, Chemistry Department.


Grants totaling $124,256 from the U. S. Environmental Protection Agency, Cincinnati, Ohio, for the following purposes:

1. $1,374 - "Effects of Environmental Contaminants on Cell-Mediated Immunity," February 1, 1976, through January 31, 1977, under the direction of Dr. Loren D. Koller, Research Associate in Veterinary Medicine.

2. $35,911 - "For John Douglas Children while on assignment to the Terrestrial Ecology Branch of the Environmental Protection Agency," March 21, 1976, through January 1, 1978, under the direction of Dr. Ernst J. Dornfeld, Chairman of Zoology.

3. $6,680 - "A study of flow measurements at 15 stream sites within the Huckleberry Creek, 8th Creek, 9th Creek drainages northeast of Oakridge, Oregon," March 18, 1976, through March 1, 1977, under the direction of Dr. Peter C. Klingeman, Associate Professor of Civil Engineering.

4. $60,440 - "The Effect of Chemical Carcinogens from Petroleum By-Products on the Marine Environment," June 1, 1976, through May 31, 1977, under the direction of Dr. Michael C. Mix, Associate Professor of Biology.

5. $19,851 - "Development of Procedures Based on Hepatic Toxicities To Evaluate Effects of Chronic Exposure of Fishes to Environmental Contaminants," September 1, 1975, through August 31, 1976, under the direction of Dr. Lavern J. Weber, Associate Professor of Pharmacology and Fisheries.
Grants totaling $516,978 from the U. S. Public Health Service, Bethesda, Maryland, for research and other purposes, as follows:

1. $93,840 - "Metabolism of Antineoplastic Agents," February 1, 1976, through January 31, 1977, under the direction of Dr. Donald J. Reed, Associate Professor of Biochemistry.


3. $22,056 - "Photoreaction and Herbicide Metabolism," April 1, 1976, through March 31, 1977, under the direction of Dr. Sheng C. Fang, Professor of Agricultural Chemistry.

4. $100,557 - "Metabolism and Co-Carcinogenicity of Cyclopropenes," April 1, 1976, through March 31, 1977, under the direction of Dr. Russell O. Sinnhuber, Professor of Food Science and Technology.

5. $100,253 - "Metabolism and Carcinogenicity of Aflatoxins," April 1, 1976, through March 31, 1978, under the direction of Dr. Donald J. Lee, Associate Professor of Food Science and Technology.

6. $43,746 - "Subunit Structure of Chromatin," April 1, 1976, through March 31, 1977, under the direction of Dr. Kensal E. Van Holde, Professor of Biophysics.

7. $114,268 - "Biomedical Research Support Grant," April 1, 1976, through March 31, 1977, under the direction of Dr. Roy Young, Vice President for Research.

Grants of $41,061 from the University of Washington, Seattle, Washington, for research entitled, "Participation in the Arctic Ice Dynamics Joint Experiment (AIDJEX) Air Stress Measurements," January 1 through December 31, 1976, under the direction of Dr. Clayton A. Paulson, Associate Professor of Oceanography.

Gifts to the several Agricultural Experiment Station Departments and Divisions for research and other purposes, from various donors, as follows:

Agricultural Research Foundation

$2,000 - "Control of Pests in Hops," under the direction of Dr. Ralph Berry, Associate Professor of Entomology.

$8,933.50 - "Epidemiology and control of fungus diseases of wheat," under the direction of Dr. R. L. Powelson, Professor of Plant Pathology.

$10,000 - "Hop Research," under the direction of Mr. Sam T. Likens, Associate Professor of Agricultural Chemistry.

$4,500 - "For chemical analysis of various samples carried out by the Forage Analytical Service," under the direction of Dr. Frank Adams, Assistant Professor of Chemistry, and Dr. Paul H. Weswig, Professor of Chemistry.

$950.31 - "Research of insect pests of peppermint," under the direction of Dr. Ralph Berry, Associate Professor of Entomology.

$119 - "Research on Broccoli Breeding," under the direction of Dr. J. R. Baggett, Professor of Horticulture.

American Hoechst Corporation

$5,000 - "Herbicide Research Program," under the direction of Dr. Arnold P. Appleby, Professor of Crop Science.
$1,400 - "Study the biology and management of insect pests of peppermint," under the direction of Dr. Ralph Berry, Associate Professor of Entomology.

$2,800 - "Study Wilt-resistant strain of Scotch Spearmint and higher yielding strains of wilt-resistant peppermint," under the direction of Dr. C. E. Horner, Professor of Plant Pathology.

$1,000 - "Research on insects affecting nursery crops," July 1, 1976, through June 30, 1977, under the direction of Dr. R. G. Clarke, Assistant Professor of Entomology.

$1,000 - "Study soil fertility," under the direction of Dr. Thomas L. Jackson, Professor of Agronomy/Soils and Crop Science.

$1,537.76 - "Digestion trial on bakery waste products," under the direction of Dr. David C. Church, Professor of Beef Cattle Research.

$2,500 - "Role and management of wild bees for optimum crop pollination," July 1, 1976, through June 30, 1977, under the direction of Dr. W. P. Stephen, Professor of Entomology.

$2,820 - "Research on Vitamin A requirements in reproducing female minks," July 1, 1976, through June 30, 1977, under the direction of Dr. James E. Oldfield, Professor of Animal Science.

$2,170 - "Role and management of wild bees for optimum pollination," July 1, 1976, through June 30, 1977, under the direction of Dr. W. P. Stephen, Professor of Entomology.

$5,000 - "Study of Type 3 Bovine Adenovirus," under the direction of Dr. Donald Mattson, Associate Professor of Veterinary Medicine.

$2,820 - "Research on Vitamin A requirements in reproducing female minks," July 1, 1976, through June 30, 1977, under the direction of Dr. James E. Oldfield, Professor of Animal Science.

$1,000 - "Field trial with RD 10-3108 for pear psylla control," under the direction of Dr. Peter H. Westigard, Professor of Entomology.

$2,000 - "Ruminant Nutrition-Experimental drugs in beef cattle," under the direction of Dr. David C. Church, Professor of Beef Cattle Research.

$2,000 - "Research on pulp mill effluents," under the direction of Dr. Charles E. Warren, Professor of Water Pollution Biology/Fisheries.

$2,250 - "Pulp waste studies," under the direction of Dr. Charles Warren, Professor of Biology.

$7,500 - "Kraft Mill Effluent Project," under the direction of Dr. Charles Warren, Professor of Biology.

$994.72 - "Biology of fishes," under the direction of Dr. Howard Horton, Professor of Fisheries.

$4,500 - "Research and study the infectious diseases of Salmonid fishes," under the direction of Dr. John L. Fryer, Professor of Microbiology and Fisheries.

$9,669 - "Utilization of seafood industrial waste," under the direction of Dr. David L. Crawford, Associate Professor of Food Science.
Meeting #430-183

May 25, 1976

$1,875 - "Salmonid nutrition," under the direction of Dr. David L. Crawford, Associate Professor of Food Science.

$1,263 - "Maintain the research facilities in Astoria," under the direction of Dr. David L. Crawford, Associate Professor of Food Science.

$443 - "Research Overhead," under the direction of Dr. David L. Crawford, Associate Professor of Food Science.

Oregon Nursery Advisory Council

$6,205 - "Crown gall in nursery stock," under the direction of Dr. Larry Moore, Assistant Professor of Plant Pathology.

Oregon Processed Prune and Plum Growers Commission

$8,734 - "Problems of importance to the Oregon Prune Industry," under the direction of Dr. M. N. Westwood, Professor of Horticulture.

$1,266 - "Diseases of orchard crops (prune and plums)," under the direction of Dr. H. Ronald Cameron, Professor of Plant Pathology.

Oregon State Dept. of Fish & Wildlife

$1,200 - "Research on Oregon fishes," under the direction of Dr. Carl Bond, Associate Professor of Fisheries.

$10,000 - "Research on bear and waterfowl," under the direction of Dr. Charles Meslow, Assistant Professor of Wildlife Ecology.

$20,000 - "Two research projects on salmon," under the direction of Dr. John D. McIntyre, Assistant Professor of Fisheries Ecology.

Oregon State University Foundation

$11,888 - "Douglas fir rooting project," under the direction of Dr. A. N. Roberts, Professor of Horticulture.

Oregon Strawberry Commission

$5,700 - "Physiological research, systems of culture and training program," July 1, 1975, through June 30, 1976, under the direction of Dr. Patrick Breen, Associate Professor of Horticulture.

$5,000 - "Handling of mechanically harvested strawberries," July 1, 1975, through June 30, 1976, under the direction of Dr. R. F. Cain, Professor of Food Science and Technology, and Mr. George Varsveld, Assistant Professor of Food Science and Technology.

$13,800 - "Planting and breeding support program and for strawberry mechanical harvesting research and development," under the direction of Dr. Lloyd W. Martin, Associate Professor of Horticulture.

$1,500 - "Diseases of strawberries," under the direction of Dr. Richard Converse, Professor of Plant Pathology.

$2,000 - "Research on the mechanization of harvest," under the direction of Dr. Dale Kirk, Professor of Engineering.

Oregon Wheat Commission

$7,500 - "Cereal Improvement - Wheat project," under the direction of Dr. Warren Kronstad, Professor of Plant Breeding.

$3,750 - "Improvement and varietal testing of small grains in Northeastern Oregon," under the direction of Dr. Charles R. Rohde, Professor of Agronomy.

Oregon Wildlife Commission

$2,500 - "Control of vibriosis in salmon," under the direction of Dr. John L. Fryer, Professor of Microbiology and Fisheries.

$2,500 - "Detection and prevention of infectious pancreatic necrosis in salmonid fish," under the direction of Dr. John L. Fryer, Professor of Microbiology and Fisheries.
$1,000 - "Diagnosis and epizootiology of fish diseases," under the direction of Dr. John L. Fryer, Professor of Microbiology and Fisheries.

Pacific Kenyon Corporation

$2,660 - "Animal feed supplement to support research to determine the effect of feeding PKE & R & D Blocks and supplements to cattle," under the direction of Dr. Harley A. Turner, Assistant Professor of Animal Nutrition.

Soils & Fertilizer Research Branch, TVA

$4,500 - "S-Urea Research," under the direction of Dr. Larry Boersma, Professor of Soil Science.

State of Montana

$4,071.54 - "Bunt diseases of wheat caused by Tilletia caries and T. Controversa," under the direction of Dr. Ed Trione, Professor of Plant Pathology.

A. M. Todd Company

$6,500 - "Herbicide research in mint crops," under the direction of Dr. Arnold P. Appleby, Professor of Crop Science.

$6,100 - "Biology and management of insect pests of peppermint," under the direction of Dr. Ralph Berry, Associate Professor of Entomology.

$9,850 - "Control of mint diseases," under the direction of Dr. C. E. Horner, Professor of Plant Pathology.

Treasurer of Curry County

$3,500 - "Ornamental Research Program," under the direction of Dr. L. H. Fuchigami, Assistant Professor of Horticulture.

Union Collier

$325 - "Lab analysis work in connection with the field testing of popcorn sulfur," July 1, 1975, through June 30, 1976, under the direction of Dr. Thomas L. Jackson, Professor of Agronomy and Soils Science.

U. S. Department of Agriculture

$1,456.65 - "Management of Bark Beetle populations using Pheromones," under the direction of Mr. James Swaby, Graduate Research Assistant in Entomology.

$13,217.32 - "Study field burning," under the direction of Dr. D. O. Chilcote, Professor of Crop Physiology, and Dr. H. W. Younberg, Professor of Agronomic Crop Science.

$1,250 - "Investigation and development of new crops," under the direction of Dr. Wheeler Calhoun, Associate Professor of Agronomy.

$2,196.53 - "Study watershed changes in relation to cattle and big game grazing," under the direction of Dr. John C. Buckhouse, Assistant Professor of Rangeland Resources.

$1,255.44 - "Study the restoration of Bitterbrush," under the direction of Dr. A. H. Winward, Assistant Professor of Rangeland Resources.

$761.01 - "Study the management of bark beetle populations using Pheromones," under the direction of Mr. Don Scott, Graduate Research Assistant in Entomology.

$893.02 - "Management of Bark Beetle populations using Pheromones," under the direction of Mr. Anthony Start, Graduate Research Assistant in Entomology.

$7,503.28 - "Study the diseases and viruses of pome fruits," under the direction of Dr. Paul Bertrand, Assistant Professor of Plant Pathology.

$6,781 - "Determinates of incomes and human resource mobility in Oregon's natural resource," under the direction of Dr. Joe B. Stevens, Associate Professor of Agricultural Economics.
Meeting #430-185  
U. S. Department of the Interior

$3,430 - "Research the effects of Tussock Moth virus on salmonid fish," under the direction of Dr. John L. Fryer, Professor of Microbiology and Fisheries.

$2,560 - "Research to control the Eastern Filbert Blight disease, affecting filbert orchards in the Pacific Northwest," under the direction of Dr. H. Ronald Cameron, Professor of Plant Pathology.

$176.56 - "Control of insects that affect production of grass seed," under the direction of Dr. J. Kamm, Associate Professor of Entomology.

$3,000 - "New Crops Research - Selection and Breeding of Brassica Species," under the direction of Dr. Wheeler Calhoun, Associate Professor of Agronomy.

$4,996.50 - "Virological investigations of calfhood diseases," July 1, 1974, through June 30, 1975, under the direction of Dr. Donald Mattson, Associate Professor of Veterinary Medicine.

U. S. Department of the Interior

$2,480 - "Studies of nesting waterfowl," under the direction of Dr. Charles Meslow, Assistant Professor of Wildlife Ecology.

$672.52 - "Study Band-Tailed Pigeon," under the direction of Dr. Robert L. Jarvis, Assistant Professor of Wildlife Ecology.

$5,666 - "Study of Columbia River Chinook Salmon," under the direction of Dr. John D. McIntyre, Assistant Professor of Fisheries.

University of Idaho

$2,652.81 - "Development, evaluation and maintenance of Pathogen-free vegetation - propagated planting stock," under the direction of Dr. T. C. Allen, Professor of Plant Pathology.

$1,498 - "Control of basal rot and its ecology," under the direction of Dr. Larry Moore, Assistant Professor of Plant Pathology.

Washington State Bulb Commission

$2,500 - "Cherry pitting study," under the direction of Dr. T. J. Facteau, Associate Professor of Horticulture.

Washington Tree Fruit Research Commission

$840 - "Study the effects of fertilizer and lime treatments on the yield and chemical composition of onions," under the direction of Dr. Thomas L. Jackson, Professor of Agronomy/Soils.

Western Oregon Onion Growers

$1,600 - "Study the poultry disease Pasteurella," under the direction of Dr. M. Matsumoto, Assistant Professor of Comparative Pathology.

Willamette A.B.C. Laboratories, Inc.

Scholarships & Fellowships

Gifts totaling $20,433.86 from the following donors for scholarships and fellowships:

<table>
<thead>
<tr>
<th>Scholarship/Fellowship Details</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>All-American Collegiate Golf Foundation, New York</td>
<td>$500.00</td>
</tr>
<tr>
<td>Elmer Bankus Memorial Scholarship Fund, Brookings</td>
<td>$534.00</td>
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<tr>
<td>Brookings Emblem Club No. 265, Brookings</td>
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<td>Brookings Rotary Club Scholarship, Brookings</td>
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<tr>
<td>Francis Ouimet Caddie Scholarship Fund, Weston, Massachusetts</td>
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<td>Carpenter Scholarship, through Ashland Senior High School, Ashland</td>
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<tr>
<td>Carpenter Scholarship, through Medford Senior High School, Medford</td>
<td>$1,679.01</td>
</tr>
<tr>
<td>Carpenter Scholarship, through School District No. 6, Central Point</td>
<td>$100.00</td>
</tr>
<tr>
<td>Cockerline Memorial Trust Fund, through the U. S. National Bank of Oregon, Salem</td>
<td>$600.00</td>
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May 25, 1976

College Entrance Examination Board, New York...$279.00
Coles Bay Educator's Association, Coos Bay...200.00
Educational Testing Service, Princeton, New Jersey...475.00
Evans Products Company Foundation, Portland...500.00
Evans Scholars Foundation-Western Golf Association,
Golf, Illinois...6,068.35
Paula Fisher Memorial Scholarship, Grants Pass...215.50
Georgia-Pacific Foundation, Portland...2,771.00
The Hanna Mining Company, Cleveland, Ohio...667.00
Josephine County Legal Secretory Scholarship, Grants Pass...200.00
Kiwaniis Club of Newport, Newport...200.00
Louisiana-Pacific Foundation, Portland...375.00
Charles Luce Scholarship, through the Seattle-First
National Bank, Spokane, Washington...588.00

Marshall Family Charitable Trust, through Woodside High
School, Woodside, California...333.00
Carl E. Morrison Scholarship Fund, through Family Federal
Savings and Loan Association, Dallas...228.00
Nez Perce Tribal Executive Committee, Lapwai, Idaho...400.00
Oregon Congress of Parents and Teachers, Inc., Portland...498.00
Phi Chi Theta Scholarship, Portland...100.00
Portland Rose Festival Association, Portland...345.00
Rotary Foundation of Medford and Central Point,
Central Point...133.00
Salem Junior Miss Scholarship Program, Salem...100.00
Sigma Chi Foundation, Evanston, Illinois...200.00
Jim Southworth Memorial Scholarship, Cottage Grove...500.00
Max D. Tucker Scholarship Fund, through the U. S.
National Bank of Oregon, Portland...668.00
United Methodist Ethnic Scholarship, Nashville,
Tennessee...275.00
U. S. National Bank of Oregon, Medford...205.00
Vermont Student Assistance Corporation, Burlington,
Vermont...100.00
Women's Architectural League Scholarship, Portland...646.50
Yale University, New Haven, Connecticut...215.50
Thomas H. Youell Memorial Scholarship Fund, through the
Convoy Company, Portland...150.00

Action
Grant of $123,600 from Action, Seattle, Washington, for the "Action Program,"
April 1, 1976, through March 31, 1977, under the direction of Dr. Anita
Runyan, Assistant Professor, Community Service and Public Affairs.

Archaeological
Institute of
America, City of
Eugene, UO
Development
Fund
Grant of $2,110 from the Archaeological Institute of America, City of Eugene,
and University of Oregon Development Fund, New York and Eugene, "for a
symposium and exhibit on classical mythology in art," March 1 through May 31,
1976, under the direction of Dr. Frances Stern, Assistant Professor of Art
History and Dr. Dean McKenzie, Professor of Art History.

City of Eugene
Grant of $5,000 from the City of Eugene, Eugene, for "the Summer Festival of
Music," July 1, 1975, through June 30, 1976, under the direction of Dr. H. Royce
Saltzman, Associate Dean, School of Music.

Council on Legal
Education for
Professional
Responsibility, Inc.
Grant of $7,000 from the Council on Legal Education for Professional
Responsibility, Inc., New York, for a "skills training component added to the
required first-year Torts course," September 1, 1976, through August 31, 1978,
under the direction of Dr. Frederic R. Merrill, Professor of Law.

The Institute of
Mathematical
Statistics
Grant of $13,000 from The Institute of Mathematical Statistics, San Carlos,
California, "for Professor Truax's second year as managing editor for the
Institute of Mathematical Statistics," January 1 through December 31, 1976,
under the direction of Dr. Donald Truax, Professor of Mathematics.
Meeting #430-187

May 25, 1976

Jet Propulsion Laboratory
Grant of $1,617 from the Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California, for research entitled, "A Study of Quantum Fluids in Space," May 13 through September 30, 1975, under the direction of Dr. Russell J. Donnelly, Professor of Physics.

Dr. R. F. Lane
Gift of six volumes for the Robert Carr Hall Collection of books dealing with the history of printing, from Dr. Robert F. Lane, New York. The gift is valued at $600.

National Bureau of Standards
Grant of $5,000 from the National Bureau of Standards, Washington, D. C., "to evaluate the commercial feasibility of energy related inventions submitted," February 6 through May 31, 1976, under the direction of Dr. Gerald G. Udell, Director, Innovation Center.

National Endowment for the Arts
Grant of $15,000 from the National Endowment for the Arts, Washington, D. C., "to research the role of public agencies in design and research and produce an illustrated report on architecture and urban design reflecting innovative options in the design process and the solution of significant design issues," January 1 through December 31, 1976, under the direction of Dr. Ting-li Cho, Associate Professor of Architecture and Urban Planning.

National Science Foundation
Grants totaling $303,550 from the National Science Foundation, Washington, D. C., for research and other purposes, as follows:

1. $55,000 - "Environmental Control of Mosquito Development," February 15, 1976, through July 31, 1978, under the direction of Dr. William E. Bradshaw, Assistant Professor of Biology.

2. $27,200 - "Pre-Devonian Land Plant Evolution and Paleoecology," February 15, 1976, through July 31, 1977, under the direction of Dr. Jane Gray, Curator of Paleobotany, Museum of Natural History.

3. $56,000 - "Molecules with Novel Pi-Electron Systems," July 1, 1976, through December 31, 1977, under the direction of Dr. Virgil Boekelheide, Professor of Chemistry.

4. $15,700 - "A Comparative Study of Salt Marsh-Types in the Coos Bay Estuary," March 17, 1976, through January 31, 1977, under the direction of Dr. Paul Rudy, Associate Professor of Biology.

5. $16,750 - "Changes in the Quality of Life: The Results of Rapid Growth," March 17, 1976, through January 31, 1977, under the direction of Dr. John M. Orbell, Professor of Political Science.

6. $16,300 - "Group Algebras of Nonabelian Locally Compact Groups," July 1, 1976, through December 31, 1977, under the direction of Dr. Kenneth A. Ross, Professor of Mathematics, and Dr. Theodore W. Palmer, Associate Professor of Mathematics.

7. $35,000 - "Photon Scattering from Biological Polymers," June 1, 1976, through August 31, 1977, under the direction of Dr. Warner L. Peticolas, Professor of Chemistry.

8. $20,100 - "Alumina-Catalyzed Extrusion of Heteroatoms in Organic Chemistry," June 1, 1976, through November 30, 1977, under the direction of Dr. LeRoy Klemm, Professor of Chemistry.

9. $46,000 - "Electronic Scattering and Electron-Impurity Interactions in Dilute Metal and Semimetal Alloys," April 1, 1976, through September 30, 1977, under the direction of Dr. Douglas H. Lownes, Associate Professor of Physics.
10. $15,500 - "Geochemistry of Precambrian Gneisses and Their Contamination Effect on Magna of the Skaergard Intrusion, East Greenland," April 1, 1976, through September 30, 1977, under the direction of Dr. M. Allan Kays, Associate Professor of Geology.

Oregon Committee for the Humanities
Grant of $7,996 from the Oregon Committee for the Humanities, Portland, for a project entitled, "The Unfinished Revolution: Women's Struggle for Life, Liberty & Happiness," April 1 through September 30, 1976, under the direction of Dr. Mavis Mate, Assistant Professor of History.

Oregon Mathematics Education Council
Grant of $15,885 from the Oregon Mathematics Education Council, Salem, "to provide summer salary and benefits for Donald Rasmussen and Eugene Maier, Mathematics and David Moursund, Computer Center who will be engaged in the direction of the Oregon System in Mathematics Education," under the direction of Dr. Eugene Maier, Professor of Mathematics.

Oregon Research Institute, Inc.
Grant of $80,313 from the Oregon Research Institute, Inc., Eugene, for a project entitled, "Oregon Competency Based Education: Causes and Effects within the School," January 1 through October 31, 1976, under the direction of Dr. Max Abbott, Director, Center for Educational Policy and Management.

Oregon State Employment Division
Grants totaling $1,631.50 from the Oregon State Employment Division, Eugene, for the following purposes:

1. $950 - "To provide tuition and general deposit for Sharon W. Deckert," March 29, 1976, through March 31, 1977, under the direction of Mr. Emmett Williams, Acting Director, Office of Financial Aids.

2. $681.50 - "To provide tuition and general deposit for Mary I. Bravo," March 29 through December 17, 1976, under the direction of Mr. Emmett Williams, Acting Director, Office of Financial Aids.

U. S. Dept. of the Air Force
Grant of $28,000 from the U. S. Department of the Air Force, Arlington, Virginia, for research entitled, "Coding Systems and the Comprehension of Instructional Materials," April 1 through August 30, 1976, under the direction of Dr. Ray Hyman, Professor of Psychology.

U. S. Dept. of Health, Education, and Welfare
Grants totaling $1,436,736 from the U. S. Department of Health, Education, and Welfare, Washington, D. C., for the following purposes:

1. $1,136,736 - "Northwest Regional Resource Center," February 1, 1976, through January 31, 1977, under the direction of Dr. James Crosson, Associate Professor of Education.

2. $300,000 - "Research and Training Center in Mental Retardation," March 1, 1976, through February 28, 1977, under the direction of Dr. Andrew S. Halpern, Associate Director, Center on Human Development.

U. S. Dept. of Labor
Grant of $16,100 from the U. S. Department of Labor, Washington, D. C., for the "High School Equivalency program," September 1, 1975, through August 31, 1976, under the direction of Mr. Enrique Gallegos, Instructor, Education.

U. S. Public Health Service
Grants totaling $454,210 from the U. S. Public Health Service, Bethesda, Maryland, for research and other purposes, as follows:

1. $30,686 - "New Spin-Labels for Studying Biological Membranes," June 1, 1976, through May 31, 1977, under the direction of Dr. John F. Keana, Associate Professor of Chemistry.

2. $102,928 - "Genetic Studies with Zebra Fish (Brachydanio Rerio)," March 1, 1976, through February 28, 1977, under the direction of Dr. George Streisinger, Research Associate, Institute of Molecular Biology.
Meeting #430-189

May 25, 1976

3. $56,965 - "Interactions of Nucleotides and Proteins," April 1, 1976, through March 31, 1977, under the direction of Dr. John A. Schellman, Professor of Chemistry.

4. $21,327 - "Self Administered Treatment of Depression," April 1, 1976, through March 31, 1977, under the direction of Dr. Anthony Biglan, Assistant Professor of Psychology.

5. $93,930 - "Biomedical Research Support Grant," April 1, 1976, through March 31, 1977, under the direction of Dr. Aaron Novick, Dean of the Graduate School.

6. $26,176 - "Physiology of Visual Afferent Pathways," May 1, 1976, through April 30, 1977, under the direction of Dr. Richard T. Marrocco, Assistant Professor of Psychology.

7. $38,097 - "Genetics of Visual Pigments," May 1, 1976, through April 30, 1977, under the direction of Dr. Frederick W. Manz, Professor of Biology.

8. $13,650 - "Longitudinal Study of Infant Temperament," September 1, 1975, through August 31, 1977, under the direction of Dr. Mary Rothbart, Assistant Professor of Psychology.

9. $70,451 - "Training program in Human Experimental Psychology," July 1, 1976, through June 30, 1977, under the direction of Dr. Wayne Wickelgren, Professor of Psychology.

Gifts to the University of Oregon Museum of Art:

Mrs. W. A. Haseltine
Gift of a collographic print, from Mrs. William A. Haseltine, Portland. The gift is valued at $200.

Mrs. G. Hull & Friends of G. Hull
Gift of $1,000 for the purchase of a sculpture, from Mrs. George Hull and friends of George Hull, Eugene.

Mr. M. E. Walsh
Gift of a mixed media sculpture and a plexiglas box containing bone and robin's egg shell mounted on black paper in wood frame, from Mr. Mike E. Walsh, Eugene. The gift is valued at $100.

University of Oregon Health Sciences Center
Grant of $2,619 from the University of Oregon Health Sciences Center, Portland, for "Continuing Education in Mental Health in Oregon," July 1, 1975, through June 30, 1976, under the direction of Dr. Robert Fagot, Head, Psychology.

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

Mrs. W. A. Haseltine
Gift of a collographic print, from Mrs. William A. Haseltine, Portland. The gift is valued at $200.

Mrs. G. Hull & Friends of G. Hull
Gift of $1,000 for the purchase of a sculpture, from Mrs. George Hull and friends of George Hull, Eugene.

Mr. M. E. Walsh
Gift of a mixed media sculpture and a plexiglas box containing bone and robin's egg shell mounted on black paper in wood frame, from Mr. Mike E. Walsh, Eugene. The gift is valued at $100.

University of Oregon Health Sciences Center

University of Oregon Dental School

U. S. Dept. of the Army
Grant of $22,375 from the U. S. Department of the Army, Washington, D. C., for research entitled, "The Application of Electrical Current in Dental Analgesia," February 1, 1970, through June 30, 1976, under the direction of Dr. Bhim S. Savara, Professor and Chairman, Child Study Clinic.

U. S. Public Health Service
Grants totaling $156,569 from the U. S. Public Health Service, Bethesda, Maryland, for the following purposes:

1. $19,870 - "Flouride-Selenium Interaction in Dental Caries," March 1, 1976, through February 28, 1977, under the direction of Dr. Thomas R. Shearer, Assistant Professor of Preventive Dentistry.

2. $77,486 - "Significance of Variation During Child Growth," March 1, 1976, through February 28, 1977, under the direction of Dr. Bhim S. Savara, Chairman, Child Study Clinic.
3. $27,917 - "General Research Support Program," April 1, 1976, through March 31, 1977, under the direction of Dr. Bhim S. Savara, Professor and Chairman, Child Study Clinic.

4. $31,296 - "Interactions of the Microbiota," January 1 through December 31, 1976, under the direction of Dr. Richard B. Parker, Professor and Chairman, Department of Microbiology.

University of Oregon Medical School

Alumni Association
Grant of $305 from the Alumni Association, Portland, "for the purchase of periodicals and books," under the direction of Mrs. Heather Rosenwinkle, Acting Librarian.

American Medical Association
Grant of $18,175.79 from the American Medical Association Education and Research Foundation, Chicago, Illinois, for "instruction and research programs at the Medical School," under the direction of Dr. Robert S. Stone, Dean of Research Foundation.

Estate of J. G. Anderson
Gift of $15,000 from the Estate of Jesse G. Anderson, Medford, for "Medical Research," under the direction of Mr. W. A. Zimmerman, Vice President for Administration.

The Arthritis Foundation
Grant of $25,000 from The Arthritis Foundation, Portland, for "salary support for Dr. Robert M. Bennett," July 1, 1976, through June 30, 1977, under the direction of Dr. Robert M. Bennett, Head, Section of Rheumatology.

Mr. R. K. Beals
Gift of $861.39 from Mr. Rodney K. Beals, Portland, for "unrestricted educational purposes in orthopedics," under the direction of Dr. William E. Snell, Head, Division of Orthopedics and Rehabilitation.

Mr. R. F. Becker
Gift of $2,000 from Mr. Raymond F. Becker, Portland, for "Eye Research," under the direction of Dr. Kenneth C. Swan, Professor and Chairman, Department of Ophthalmology.

Estate of B. M. Daniels
Gift of $12,840 from the Estate of Bessie M. Daniels, Portland, for an "unrestricted gift to Doernbecher Memorial Hospital," under the direction of Mr. Robert A. Peterson, Vice President for Administration.

Mr. J. Ellison
Gift of $200 from Mr. Jim Ellison, Hillsboro, for the "Bilderback Lectureship," under the direction of Dr. Robert Neerhout, Chairman, Department of Pediatrics.

Mr. & Mrs. J. Frank
Gift of $100 from Mr. and Mrs. John Frank, Beaverton, for "Crippled Children's Division Hearing and Speech," under the direction of Dr. Victor D. Menashe, Director, Crippled Children's Division.

Mr. & Mrs. R. M. Galante
Gift of $100 from Mr. and Mrs. Raymond M. Galante, Bellevue, Washington, for the "Cancer-Leukemia Medical Program," under the direction of Dr. James Linman, Head, Division of Hematology.

Dr. R. M. Kaufman
Gift of $100 from Dr. Richard M. Kaufman, Forest Grove, "to provide loans to needy dental students," under the direction of Mr. Eugene Bauer, Associate Professor and Associate Dean for Administrative Affairs.

Mr. B. Kilen
Gift of $100 from Mr. Bruce Kilen, Eugene, for the "unrestricted use for the Pediatric Department in the area of Pediatric Hematology-Oncology," under the direction of Dr. R. C. Neerhout, Professor and Chairman of Pediatrics.

Estate of L. B. Kingery
Gift of $10,000 from the Estate of Lyle B. Kingery, Portland, for the "Department of Dermatology," under the direction of Dr. Walter Lobitz, Jr., Chairman, Department of Dermatology.
Gift of $195 from Mr. and Mrs. Ken Long, Lebanon, for "the unrestricted use of Doernbecher Clinic," under the direction of Mr. Gary J. Rood, Administrator, University Hospital South.

Grant of $3,437.50 from the Medical Research Foundation of Oregon, Portland, "to establish an endowment in the name of Dr. Lyle B. Kingery to support a Department of Dermatology research library," under the direction of Dr. Walter Lobitz, Jr., Chairman, Department of Dermatology.

Gift of $100 from the Friends of Karol Anne Meyers, Stayton, for the "unrestricted use of Crippled Children's Division," under the direction of Dr. Victor Menashe, Director, Crippled Children's Division.

Grant of $19,979 from the National Aeronautics and Space Administration, Marshall Space Flight Center, Alabama, for research entitled, "Candidate Space Processing Techniques for Biomaterials Other Than Preparative Electrophoresis," April 9 through October 9, 1976, under the direction of Dr. Donald E. Brooks, Department of Neurology.

Grant of $16,000 from The National Foundation March of Dimes, White Plains, New York, for research entitled, "Urea Cycle: Study of Normal and Mutant Gene Products," April 1, 1976, through March 31, 1977, under the direction of Dr. Nancy Kennaway, Instructor in Medical Genetics.

Grant of $1,000 from the National Oil and Burner Company, Reno, Nevada, for the "purchase of two wide angle lenses for the Basic Science Building, a Telex synchronizer, an Audio cassette projector, and reel-to-reel stereo tape deck," under the direction of Dr. Robert S. Stone, Dean of the Medical School.

Grant of $150 from New Eyes for the Needy, Inc., Short Hills, New Jersey, "to purchase glasses and eye wear for the needy," under the direction of Dr. Kenneth C. Swan, Professor and Head, Department of Ophthalmology.

Grant of $100 from the Occupational Therapy Association of Oregon, Portland, for the "unrestricted use of the library," under the direction of Mrs. Heather Rosenwinkle, Acting Librarian.

Grant of $11,608 from the Oregon Heart Association, Portland, for research entitled, "Pharmacological Basis for Thoridazine-Induced Cardiotoxicity," March 1, 1976, through February 28, 1977, under the direction of Dr. Hall Downes, Associate Professor of Pharmacology.

Grants totaling $21,069 from the Oregon State Health Division, Portland, for the following purposes:

1. $8,625 - "Metabolic Laboratory Studies," January 1 through June 30, 1976, under the direction of Dr. Neil Buist, Associate Professor of Pediatrics and Medical Genetics.

2. $12,444 - "Family planning for the handicapped," January 1 through June 30, 1976, under the direction of Dr. Victor Menashe, Director, Crippled Children's Division.

Gift of $600 from Mrs. Mabel W. Osgood, Portland, for the "Osgood Memorial Center," under the direction of Dr. James Linman, Head, Division of Hematology.

Gift of $345.50 from Dr. Bernard Pirofsky, Portland, for "Arthritis and Lupus Research," under the direction of Dr. Bernard Pirofsky, Professor of Medicine and Head of Immunology and Allergy.
Grants totaling $768,106 from the U. S. Public Health Service, Bethesda, Maryland, for research and other purposes, as follows:

1. $150,321 - "Medical Cardiology," July 1, 1976, through June 30, 1977, under the direction of Dr. Frank E. Kloster, Associate Professor, Division of Cardiology.

2. $27,890 - "Coordination of Pilot Regional Cytogenetic Registries," June 30, 1973, through January 31, 1977, under the direction of Dr. Gerald Prescott, Associate Professor of Medical Genetics.

3. $21,500 - "Gene Expression in Normal and Malignant Animal Cells," April 1, 1976, through March 31, 1977, under the direction of Dr. Charles H. Faust, Jr., Assistant Professor of Surgery.

4. $31,050 - "Learning Studies of Single Cells in the Brain," March 1, 1976, through February 28, 1977, under the direction of Dr. James H. O'Brien, Associate Professor of Medical Psychology.

5. $138,970 - "Neuroendocrine and Thyroid Physiology," April 1, 1976, through March 31, 1977, under the direction of Dr. Monte A. Greer, Professor of Medicine.

6. $18,575 - "Health Professions Loans for Medical Students," July 1, 1975, through June 30, 1976, under the direction of Mr. Leonard E. Shapland, Financial Aids Officer.

7. $1,636 - "Graduate Nursing Loans," July 1, 1975, through June 30, 1976, under the direction of Mr. M. R. Parelius, Business Manager.

8. $55,467 - "Cancer Spreading Factors as a Target for Zinc Therapy," June 1, 1976, through May 31, 1977, under the direction of Dr. J. Peter Bentley, Associate Professor of Biochemistry.

9. $33,282 - "Modulation of Immunity to Group A Streptococci," May 1, 1976, through April 30, 1977, under the direction of Dr. Gerrie A. Leslie, Associate Professor of Microbiology.
10. $44,005 - "Retrograde Pancreatic Venography: Animal Autopsy Studies," April 1, 1976, through March 31, 1977, under the direction of Dr. Josef Rosch, Professor of Radiology.

11. $5,873 - "Professional Nurse Traineeship Program - Long Term," August 1, 1975, through July 31, 1976, under the direction of Miss Ruth A. Wiens, Assistant Dean, Associate Professor of Nursing.

12. $48,433 - "Behavioral Evaluation of Cochlear Implants," April 1, 1976, through March 31, 1977, under the direction of Dr. Richard A. Walloch, Assistant Professor of Otolaryngology.

13. $91,237 - "Aromatic Amino Acid Metabolism and Aromatic Amines," April 1, 1976, through March 31, 1977, under the direction of Dr. Jack H. Fellman, Professor of Biochemistry.

14. $43,996 - "Selective Erythrocyte Repopulation," April 1, 1976, through March 31, 1977, under the direction of Dr. Bernard Pirofsky, Head, Division of Allergy and Immunology.

15. $55,871 - "Kanamycin-Ethacrynic Acid Induced Cochlear Damage," April 1, 1976, through March 31, 1977, under the direction of Dr. Robert E. Brummett, Associate Professor of Otolaryngology.

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University Cardiopulmonary Surgery Group Grant of $6,820 from the University Cardiopulmonary Surgery Group, Portland, for a "salary for Jeri L. Dobbs, Assistant Professor of Cardiopulmonary Surgery."

The Vicon Instrument Co. Gift of a Free Field Signal Generator, from The Vicon Instrument Company, Colorado Springs, Colorado. The gift is valued at $720.

T. P. Walker Trust Fund Gift of $3,000 from the Thelma P. Walker Trust Fund, Portland, for "Cancer Research," under the direction of Dr. Robert S. Stone, Dean of the Medical School.

Mr. N. C. Williams Gift of an ALP 501 Machine with accessories, from Mr. Norman C. Williams, Lake Oswego. The gift is valued at $795.

Portland State University

American Chemical Society Grant of $11,000 from the American Chemical Society, The Petroleum Research Fund, Washington, D. C., for research entitled, "The Preparation and Characterization of New Oxidizing Chromium Compounds," June 1, 1976, through August 31, 1978, under the direction of Dr. Gary L. Gard, Head, Department of Chemistry.

Coordinating Council of Literary Magazines Gift of $200 from the Coordinating Council of Literary Magazines, New York, for the "second place award based on competition of college literary magazines," beginning February 6, 1976, under the direction of Mrs. Orcilia Forbes, Dean for Students.

The Ford Foundation Grant of $10,000 from The Ford Foundation, New York, "to jointly prepare papers and disclose ideas on the types of resources which can be developed by working with the City of Portland and Multnomah County," March 25, 1976, through March 31, 1977, under the direction of Dr. E. Dean Anderson, Vice President for University Relations.

National Association of Social Workers Grant of $100 from the National Association of Social Workers, Marylhurst, for the "Michael Harrington Conference," beginning March 1, 1976, under the direction of Mrs. Doris Stubblefield, School of Social Work.

Portland Opportunities Industrialization Center Grant of $2,104.50 from the Portland Opportunities Industrialization Center, Portland, for "an on-the-job training program placing Mr. Larry Slone as a Janitor Trainee," March 1 through May 31, 1976, under the direction of Dr. William C. Neland, Director, Physical Plant.
Portland Public Schools

Grant of $4,500 from the Portland Public Schools, Portland, for "consulting services to the School District for a group of research and evaluation personnel pursuing research questions in the ROSCH test scaling procedures," January 1 through March 29, 1976, under the direction of Dr. Chadwick Karr, Professor of Psychology.

Tektronix, Inc.

Grant of $6,711 from Tektronix, Inc., Beaverton, "for research involving electron microscope studies of phosphors," March 1, 1976, through February 28, 1977, under the direction of Dr. John Dash, Associate Professor of Physics.

U. S. Dept. of the Army

Grant of $1,754 from the U. S. Department of the Army, Portland, "to determine boundaries of three archaeological sites in the Scappoose, Oregon area," March 19 through April 30, 1976, under the direction of Dr. Thomas M. Newman, Professor of Anthropology.

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


U. S. Public Health Service

Grant of $27,389 from the U. S. Public Health Service, Research Triangle Park, North Carolina, for research to "measure the effects of pesticides on electrical characteristics of lipid membranes," April 1, 1976, through March 31, 1977, under the direction of Dr. Pavel Smajtlik, Assistant Professor of Physics.

Gifts to the Library:

Gifts to the Portland State University Library, from various donors, as follows:

Dr. J. E. Allen
Eighty-one monographic volumes in the field of geology, from Dr. John E. Allen, Portland. The gift is valued at $892.50.

Dr. G. Diel
Eighty-five titles, comprising ninety-seven volumes in the social sciences, from Dr. George Diel, Portland. The gift is valued at $310.

Jewish Chautauqua Society
Fifteen monographic volumes in the fields of Jewish history and literature, from the Jewish Chautauqua Society, New York. The gift is valued at $100.

Dr. F. F. Kuo
Seventeen recordings, 72 slides, and 3 monographic volumes in the area of the humanities, from Dr. Frank F. Kuo, Portland. The gift is valued at $172.

Library Association of Portland
Twenty-nine volumes of serial publications in various subject areas, from the Library Association of Portland, Portland. The gift is valued at $174.

Oregon College of Education

Scholarships & Fellowships

Gifts totaling $14,904.66 from the following donors for scholarships and fellowships:

- Aiken Memorial Fund, through Roseburg Senior High School, Roseburg, $500.00
- Albany Rotary Club, through the Oregon State University Foundation, Corvallis, 250.00
- American Association of University Women, Bend Branch, Bend, 500.00
- American Business Women's Association, Chemeketa Chapter, Salem, 200.00
- American Business Women's Association, Clackamette Chapter, Oregon City, 150.00
- Stephen Bufton Memorial Educational Fund, through the Peoples Bank, Kansas City, Missouri, 400.00
- Cockerline Memorial Trust Fund, through the U. S. National Bank of Oregon, Salem, 400.00
Grants totaling $21,844.60 from the Bureau of Indian Affairs, Juneau, Alaska, for the following purposes:

1. $6,486.60 - "To develop Yupik materials for grades 1, 2, & 3 and to provide field training to the PEP staff," August 15, 1975, through June 30, 1976, under the direction of Dr. Donald H. Duncan, Chairman of Education and Psychology.

2. $15,358 - "For 54 BIA Alaskan students to study: (1) techniques of curriculum making, and (2) analysis and evaluation of classroom instruction," January 1 through July 31, 1976, under the direction of Dr. Paul Jensen, Professor of Education.

Grant of $10,000 from the Lorene Sails Higgens Charitable Trust, Portland, to gather, organize, and maintain at the Oregon College of Education library an authoritative and definitive collection of books, periodicals, newspapers, and other materials relating to the historical, cultural, scientific, and aesthetic development and status of the greater Pacific Northwest region," July 1, 1975, through June 30, 1978, under the direction of Mr. John N. Sparks, Director of Business Affairs.
Southern Oregon State College

Dr. J. C. Luce & Dr. C. P. Hald  
Gift of $312.42 from Dr. James C. Luce, Medford and Dr. Christian P. Hald, Ashland, for the "Nursing gifts account," January 1 through December 31, 1976, under the direction of Dr. Elliott MacCracken, Professor of Science.

Minnesota Mining & Manufacturing Co.  
Grant of $500 from the Minnesota Mining and Manufacturing Company (3-M), White City, for "grants-in-aid," under the direction of Dr. Gary Prickett, Chairman, Business Division.

U. S. Dept. of Health, Education, and Welfare  
Grant of $3,751 from the U. S. Department of Health, Education, and Welfare, Bethesda, Maryland, for the "Nursing Student Assistance Programs," July 1, 1975, through June 30, 1976, under the direction of Mrs. Betty Haugen, Nursing Department.

Eastern Oregon State College

Scholarships & Fellowships  
Gifts totaling $8,644 from the following donors for scholarships and fellowships:

- Allen Dale School Parent Teacher Association, Grants Pass $150.00
- Association on American Indian Affairs, Inc., New York $150.00
- Baker County School District 30J Faculty, Unity $275.00
- Bureau of Indian Affairs, Anadarko Area Office, Anadarko, Oklahoma $500.00
- Bureau of Indian Affairs, Umatilla Agency, Pendleton $3,505.00
- Bureau of Indian Affairs, Warm Springs Agency, Warm Springs $1,125.00
- Cockerline Memorial Trust Fund, through the U. S. National Bank of Oregon, Salem $200.00
- The Confederated Tribes of the Warm Springs Reservation, Oregon, Warm Springs $375.00
- Confederated Tribes and Bands, Yakima Indian Nation, Toppenish, Washington $200.00
- Delta Kappa Gamma, Iota Chapter, Pendleton $215.00
- Florence Boosters Club, Florence $100.00
- Georgia-Pacific Foundation, Portland $250.00
- Grande Ronde Symphony Association, La Grande $300.00
- Oregon Congress of Parents and Teachers, Inc., Portland $166.00
- PEO Sisterhood, Chapter DK, La Grande $100.00
- Soroptimist Club, La Grande $215.00
- U. S. Bancorp, Portland $430.00

National Science Foundation  
Grant of $17,850 from the National Science Foundation, Washington, D. C., for a project entitled, "Preliminary Ecological Survey of the Alvord Desert Basin," March 17, 1976, through January 31, 1977, under the direction of Dr. David E. Kerley, Associate Professor of Biology.

Oregon Regional Medical Program  
Grant of $8,498 from the Oregon Regional Medical Program, Portland, "to provide counseling to Indian students who are interested in careers in the medical science field," November 1, 1974, through June 30, 1976, under the direction of Mr. William McLean, Assistant Professor, Indian Education and Director, Indian Education Institute.

U. S. Dept. of Health, Education, and Welfare  
Grant of $198,561 from the U. S. Department of Health, Education, and Welfare, Washington, D. C., "to provide grants to students who qualify under the basic economic opportunity grant," July 1, 1975, through June 30, 1976, under the direction of Mr. Howard A. Anderson, Director of Financial Aids.

Oregon Institute of Technology

Scholarships & Fellowships  
Gifts totaling $5,900.67 from the following donors for scholarships and fellowships:

- Carpenter Foundation, through Medford Senior High School, Medford $200.00
- Carpenter Foundation, through Phoenix High School, Phoenix $155.00
- Central Council of Tlingit and Haida Indians of Alaska, Juneau, Alaska $950.00
Riviera Motors, Inc. Gifts of a Volkswagen Engine Assembly, a Volkswagen transmission, and a set of special tools and literature, from Riviera Motors, Inc., Hillsboro. The gifts are valued at $2,362.

Oregon Educational and Public Broadcasting Service

Eugene Television, Inc. Grant of $37,500 from Eugene Television, Inc., Eugene, for "operation of KVDO," February 19 through June 30, 1976, under the direction of Dr. Donald Bryant, Director, Oregon Educational and Public Broadcasting Service.

National Endowment for the Arts Grant of $35,000 from the National Endowment for the Arts, Washington, D.C., for "a program on the life and work of Oregon composer Ernest Bloch," March 8 through July 9, 1976, under the direction of Mr. D. R. Larson, Board Secretary.

Teaching Research Division

Boulder River School & Hospital Grant of $58,805.14 from the Boulder River School and Hospital, Boulder, Montana, "to provide training services for the staff of Boulder River School and Hospital, including instruction in curriculum, designing of behavioral programs, utilization of personnel in the delivery of prescriptive programs and behavioral terminology and techniques of the Teaching Research instructional model for moderately and severely handicapped children," January 1, 1976, through June 30, 1977, under the direction of Dr. David N. Grove, Associate Research Professor and Project Director.

Oregon Mental Health Division Grants totaling $46,653 from the Oregon Mental Health Division, Salem, for the following purposes:

1. $39,680 - "To train parents to remediate problems of their handicapped children in areas of language, motor development, preacademic training and survival skills," July 1, 1975, through June 30, 1976, under the direction of Dr. David Grove, Associate Research Professor.

2. $6,973 - "To provide a computer student progress record evaluation of all children being served in classes for the trainable mentally retarded in Oregon," September 1, 1973, through June 30, 1976, under the direction of Dr. H. D. Fredericks, Research Professor and Project Director.

ADJOURNMENT The Board adjourned at 3:10 P.M.

George H. Layman, President
D. R. Larson, Secretary
SUPPLEMENT A

THE EFFECTS OF A DIFFERENTIAL GRADUATE TUITION FOR NON-RESIDENTS
Testimony before the Oregon State Board of Higher Education
Aaron Novick, Dean, Graduate School, University of Oregon
May 25, 1976

The determination of an appropriate level for tuition for graduate students is not a simple matter. The benefits to the university, to the state, and to the nation are not easily measured in dollars. The costs, although readily expressed in dollars, are not so simply allocated between student, state, and nation. In the present testimony only a brief review of some of the elements which enter into the benefits and costs is attempted, but specific comparison is made of tuition charges and tuition income in equivalent universities.

On the benefit side of the ledger one must recognize the value of a graduate program as a resource. To the university it provides a faculty actively engaged in research and thereby providing the most up to date and authoritative instruction to undergraduates as well as graduates. Further, a good graduate program brings in good graduate students who can help with the teaching effort. To the state and nation the research activity in the graduate school is a vital resource. Not only does our economic well-being depend to a significant extent on the fundamental knowledge coming from the graduate school, but also our intellectual and cultural lives are obvious beneficiaries.

For such reasons graduate schools are national, even international, in their perspectives. It is almost a rigid rule that graduating seniors must go elsewhere for their graduate work. For them to continue at the same institution would deprive them of a vitally needed broadening of intellectual perspective, and it would be a form of in-breeding for the university to its serious detriment. The graduate student coming from another university brings in new ideas as well as receiving them. An important fertilization occurs. Especially, in relatively isolated regions such as Oregon this matter becomes of very great importance. But isolationist universities need not die, they can petrify and still consume funds at an unabated rate.

Costs are readily categorized. The contributions from state and national governments are clear. A substantial part of income at the University of Oregon comes from federal sources. The cost of tuition is only a fraction of the cost the student bears, the income he or she foregoes while a graduate student is a far greater expense.

Given the almost incommensurability of the benefits and costs, it is not surprising that graduate tuition is set ultimately arbitrarily. Typically in state universities one looks at one's neighbors for examples. Since most of Oregon's neighbors have a higher tuition for non-resident graduate students it is not surprising that from time to time the suggestion is made that Oregon should do likewise.
But if Oregon copies its neighbors in this respect it ought also to duplicate other relevant features of tuition rates. At the same time one must bear in mind the effect of laws determining residency status, i.e., how long can a non-resident tuition rate be collected? Below an attempt is made to compare graduate tuition in Oregon with graduate tuition in a number of comparable state universities. The conclusion is that were Oregon to adopt the graduate tuition rates in force at comparable western universities where there is a tuition differential, there would in most cases be a loss in tuition income. This results from the laws governing residency status and from the relatively high graduate tuition at Oregon.

The status of being a "non-resident" is only temporary in most states. Under Oregon law a person not registered as a student needs six months to establish residency, and a registered student needs no more than 12 months. It can be assumed, therefore, that students who enter as non-residents would pay only the resident tuition after the first year. (That this is the case in universities with differential tuition was verified by calls to a number of universities.) A substantial fraction of entering non-resident students already qualify as residents when they first register. Another factor is that a number of entering non-resident graduate students hold graduate teaching fellowships and would not be paying any tuition. Also, a significant number of entering non-resident students are foreign. If tuition for them were raised substantially their numbers would very likely seriously decline, depriving the University of a group which has provided an important element in the educational experience of resident students.

One must, therefore, bear in mind that only a fraction of entering non-resident students could be charged a differential fee, and this extra fee could be collected only during the first year of graduate work.

Of the 992 graduate students admitted to the University in 1975-76, 651 indicated out-of-state addresses. Of these 651, an estimated 125 were already qualified for resident status, another 132 were foreign students, and 150 received tuition remission as graduate teaching fellows. In consequence, of the 651 only 244 could have been charged non-resident tuition.

In the first table below are given the charges for tuition and fees for graduate students for 1974-75 for ten western public universities with higher charges for non-residents. It can be seen that in these cases an entering non-resident would pay less tuition in three years of graduate work in eight out of ten cases than the student would be charged at the U of O. In only one case (California) would the charge be significantly higher. In one other (Washington) there is little difference. Thus, such students are already paying a higher tuition at the U of O than at most other universities. Given these facts it is evident that adoption of a differential tuition rate structure like those charged at the great majority of comparable universities would lead to a decrease in tuition income. The calculated losses are given in the second table.

In principle, of course, one could collect more tuition by raising the non-resident tuition to much higher levels than at the comparable
universities. But, it is likely that such a tuition increase would bring a serious drop in graduate enrollment, probably to a point where many programs could no longer be economically operated, thus jeopardizing the continued existence of these programs. One should strive to keep our programs competitive with our peers.

Graduate programs of quality which brought admission to the Association of American Universities are surely important assets to the State. They provide for an outstanding faculty, who along with the top graduate students they attract, greatly improve the undergraduate program. They, along with their graduate students, bring direct economic and other benefits in the substantial funds the University receives from Federal and private agencies for the support of educational and research activities. There are in addition many indirect economic benefits, as well as cultural and intellectual enrichment.

Thus, the issue of graduate tuition, its magnitude as well as its differentials is quite an important matter. Obviously it cannot be responsibly settled without attention to the many values which enter.
### TABLE I

GRADUATE TUITION RATES AT SEVERAL WESTERN UNIVERSITIES FOR 1974-75

<table>
<thead>
<tr>
<th>UNIVERSITY</th>
<th>RESIDENT</th>
<th>NON-RESIDENT</th>
<th>TUITION FOR INITIALLY NON-RESIDENT STUDENT*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>2 YEARS</td>
</tr>
<tr>
<td>Arizona State</td>
<td>$370</td>
<td>$1260</td>
<td>$1630</td>
</tr>
<tr>
<td>Arizona</td>
<td>411</td>
<td>1409</td>
<td>1820</td>
</tr>
<tr>
<td>UC Berkeley</td>
<td>698</td>
<td>2237</td>
<td>2939</td>
</tr>
<tr>
<td>Colorado</td>
<td>240</td>
<td>1181</td>
<td>1421</td>
</tr>
<tr>
<td>Kansas State</td>
<td>526</td>
<td>1316</td>
<td>1842</td>
</tr>
<tr>
<td>Kansas</td>
<td>287</td>
<td>682</td>
<td>969</td>
</tr>
<tr>
<td>New Mexico State</td>
<td>233</td>
<td>648</td>
<td>881</td>
</tr>
<tr>
<td>New Mexico</td>
<td>450</td>
<td>1278</td>
<td>1728</td>
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<tr>
<td>Utah</td>
<td>480</td>
<td>675</td>
<td>1155</td>
</tr>
<tr>
<td>Washington (Also WSU)</td>
<td>624</td>
<td>1641</td>
<td>2265</td>
</tr>
<tr>
<td>Oregon</td>
<td>849</td>
<td>849</td>
<td>1698</td>
</tr>
</tbody>
</table>

After 2 years, Oregon ranks 6th from having highest tuition.

After 3 years and beyond, Oregon ranks 3rd (or nearly tied for 2nd) from having highest tuition.

*It is assumed that resident tuition is paid after first year fees are included.
TABLE 2

EFFECT ON TUITION INCOME FOR ADMISSION OF 244 NON-RESIDENT STUDENTS WERE OREGON TO ADOPT THE DIFFERENTIAL TUITION STRUCTURE USED AT EACH OF THE UNIVERSITIES LISTED BELOW. (RATES USED ARE THOSE IN EFFECT 1974-75.)

<table>
<thead>
<tr>
<th>UNIVERSITY</th>
<th>AFTER 2 YEARS</th>
<th>3 YEARS</th>
<th>4 YEARS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arizona State</td>
<td>$(16,592)</td>
<td>$(133,468)</td>
<td>$(250,344)</td>
</tr>
<tr>
<td>Arizona</td>
<td>29,768</td>
<td>(77,104)</td>
<td>(183,976)</td>
</tr>
<tr>
<td>UC Berkeley</td>
<td>301,828</td>
<td>264,984</td>
<td>228,140</td>
</tr>
<tr>
<td>Colorado</td>
<td>(67,588)</td>
<td>(216,184)</td>
<td>(364,780)</td>
</tr>
<tr>
<td>Kansas State</td>
<td>35,136</td>
<td>43,676</td>
<td>122,488</td>
</tr>
<tr>
<td>Kansas</td>
<td>(177,876)</td>
<td>(315,004)</td>
<td>(452,132)</td>
</tr>
<tr>
<td>New Mexico State</td>
<td>(199,348)</td>
<td>(349,652)</td>
<td>(499,956)</td>
</tr>
<tr>
<td>New Mexico</td>
<td>7,320</td>
<td>(90,036)</td>
<td>(187,392)</td>
</tr>
<tr>
<td>Utah</td>
<td>(132,492)</td>
<td>(222,528)</td>
<td>(312,564)</td>
</tr>
<tr>
<td>Washington (Also WSU)</td>
<td>138,348</td>
<td>83,448</td>
<td>28,548</td>
</tr>
</tbody>
</table>