STATE BOARD OF HIGHER EDUCATION

MINUTES OF MEETING HELD IN

ROOM 338, MICHAEL J. SMITH MEMORIAL CENTER, PORTLAND STATE
UNIVERSITY, PORTLAND, OREGON

September 26, 1972

MEETING #406-1

A regular meeting of the State Board of Higher Education was held in Room 338, Michael J. Smith Memorial Center, Portland State University, Portland, Oregon.

ROLL CALL

The meeting was called to order at 9:00 A.M. (P.D.T.) Tuesday, September 26, 1972, by the President of the Board, Mr. George H. Layman, and on roll call the following answered present:

Mr. George H. Corey  
Mr. Robert D. Holmes  
Mrs. Elizabeth H. Johnson  
Mr. Philip A. Joss  
Mr. John D. Mosser  
Mr. John W. Snider  
Mr. Loran L. Stewart  
Mr. George H. Layman

Absent: Mr. Edward G. Westerdahl II was out of the country.

OTHERS PRESENT

Centralized Activities--Chancellor R. E. Lieuallen; Secretary R. L. Collins: Mr. Freeman Holmer, Vice Chancellor for Administration; Mr. J. I. Hunderup, Vice Chancellor for Facilities Planning; Dr. Miles C. Romney, Vice Chancellor for Academic Affairs; Mr. D. R. Larson, Assistant Chancellor; Mr. H. A. Bork, Consultant; Mr. J. L. Watson, Controller; Dr. James Beaird, Director, Teaching Research Division; Mr. John B. Leahy, Assistant Attorney General, Mr. Robert A. Nicholas, Associate Director, Division of Continuing Education; Mr. Fred Segrest, Administrative Assistant; Mr. John Richardson, Assistant to the Chancellor; Mr. M. A. Jennings, Data Systems Coordinator; Mr. R. P. Zook, Data Systems Applications Coordinator; Mr. Robert Halvorsen, Management Systems Analyst.

Oregon State University--President R. W. MacVicar; Mr. M. Popovich, Dean of Administration; Mr. Larry C. Hunter, Director, Computer Center.

University of Oregon--President Robert D. Clark; Dr. Burton Moyer, Dean, College of Liberal Arts; Mr. George Struble, Director, Computer Center; Dr. Virgil Boekelheide, Professor of Chemistry; Dr. Charles E. Klopfenstein, Associate Professor of Chemistry.

University of Oregon Medical School--Dean C. N. Holman.

University of Oregon Dental School--Dean L. G. Terkla.
The Board voted to dispense with the reading of the minutes of the last regular meeting held on July 24, 1972, and the adjourned meeting held on August 28, 1972, and approved them as printed in the preliminary minutes previously issued.

The Chancellor called attention to the annual report of gifts and grants which was distributed. He said that the State System institutions have not experienced the substantial reduction in the level of funding from gifts, grants, and contracts which has recently occurred in the case of many other institutions. These reductions in funding at other institutions are primarily the result of cutbacks in defense contract funding and the National Aeronautics and Space Administration program. In the State System, the total funds received during 1971-72 from gifts, grants, and contracts is almost the highest in the history of the State System. One other year, 1969-70, had a higher total.

The Chancellor indicated, however, that there has been a sharp drop in the federal contribution to the category of support for advancement of teaching. The report as distributed appears below.
### Summary of Gifts and Grants to Oregon State System of Higher Education


#### Purpose of Gift

<table>
<thead>
<tr>
<th>Year</th>
<th>Research</th>
<th>Institutes</th>
<th>Construction</th>
<th>Overseas Training Grants</th>
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<td>Federal</td>
<td>Other</td>
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<td>$18,749,441.75</td>
<td>$3,188,737.11</td>
<td>$21,938,178.86</td>
<td>$2,341,788.51</td>
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<td>1968-69</td>
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<td>$2,530,525.62</td>
<td>$17,108,752.26</td>
<td>$2,341,788.51</td>
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<td>$2,542,912.26</td>
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#### Source of Gifts

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<td>SOURCE OF GIFTS</td>
<td>Federal</td>
<td>Other</td>
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### PURPOSE OF GIFT

#### CARE OF MEDICALLY INDIGENT

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#### GENERAL USE

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#### MISCELLANEOUS

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1971-72 ( Included under general use)

#### URBAN PLANNING

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<td>1971-72</td>
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### Purpose of Gift

**Oregon Educational and Public Broadcasting Services**

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<td>$12,682.00</td>
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<td>1969-70</td>
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<td><strong>Total for 1969-1971 Biennium</strong></td>
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<td>$69,587.00</td>
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<td>1971-72</td>
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#### Professional Services (new category)

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### Totals

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<tr>
<td>1967-68</td>
<td>41,670,278.75</td>
<td>5,983,436.50</td>
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<td>1968-69</td>
<td>47,504,347.16</td>
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<td><strong>Total for 1967-1969 Biennium</strong></td>
<td>$89,174,625.91</td>
<td>$10,664,788.04</td>
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September 26, 1972
The Chancellor announced the appointment of Dr. Stanley Williamson as Acting Dean of the School of Education at Oregon State University. The Chancellor indicated that the appointment of an acting dean did not require Board action but that it was reported for the information of the Board.

The Chancellor said that the Academic Affairs Committee had considered the report of the ad hoc committee which had been established to prepare recommendations to the Board for the creation of a Pacific Rim Studies Center as recommended by the Governor. The report recommended that the idea of a Center be approved by the Board and that the Board cooperate with Governor McCall in his presentation of a request to the Emergency Board to get the program under way during the fiscal year 1972-73. It was also assumed that a detailed biennial budget proposal would be developed for presentation to the 1973 Legislature.

The Chancellor reported that following the meeting of the Academic Affairs Committee, the Emergency Board had allocated $100,000 for the development of the Center, rather than the smaller amount of $20,000 discussed during the Committee meeting.

The Chancellor recommended that the Board (1) approve the general principle of the Pacific Rim Studies Center to be located within the administrative framework of Portland State University and on the Portland State University campus; (2) that the Board's Office be authorized to develop a budget within the $100,000 limit allocated for year 1972-73; (3) that the budget for the 1973-1975 biennium be presented as a separate item to the Governor and the 1973 Legislature so that it will be clearly identified as extra funding for the biennium; and (4) that a director be appointed to develop further the plans and budget for the Center.

Board Discussion and Action

Following questions by Mr. Mosser and Mr. Stuart, the Board discussed the question of contract research and proprietary research.

Dr. Blumel and Dr. Charles White of Portland State University indicated that proprietary research implies that the results of the research are only available to the person contracting for it. They said it was their understanding that the report of the Committee specifically recommended against this type of research but that the Committee did not intend to prohibit other contract research where the results of the research would be in the public domain and freely available to all potential users.
During the discussion, it was stated by Mr. Mosser that the Center should be an academic institute which determines the research to be conducted and controls the conduct of that research, as opposed to contract research done at the request and solely for the benefit of any private enterprise.

The Board approved a motion by Mr. Joss to approve the recommendations of the Chancellor, with the understanding that the director to be appointed would be on an interim basis until a permanent appointment was specifically authorized by the Board, and with the further understanding that the Center would not engage in proprietary research as defined above.

Mr. Stewart voted against the motion. He said he was in favor of the Pacific Rim Studies Center but was opposed to the way in which the matter has been brought out.

The Chancellor said that some consideration has previously been given to a possible reorganization of the Medical and Dental School complex to provide increased efficiency through a single health services unit. He said it was his intention to present a proposal for the reorganization of the Medical and Dental School services which would have the effect of creating a single unit rather than multiple units in that complex. The Chancellor stated that no Board action was required at this meeting but that he was indicating his intention to submit this proposal at a future date in order to allow sufficient time to obtain reactions and suggestions from the Board and others prior to presentation of the reorganization plan.

(Considered by Building Committee, August 28, 1972.)

Staff Report to the Committee

On September 8, 1970, a report was made to the Board of the appointment of Cornell, Howland, Hayes & Merryfield (now identified as CH2M/Hill) of Portland for a comprehensive engineering-economics study of the utilities at the University of Oregon Medical School.

The scope of the work included a review of the adequacy of existing utility systems, developing long-range plans for these systems and preparing a report of the findings and recommendations that could form the basis for future action.

The study and recommendations were to include generation facilities for emergency power, space heating and space cooling, and the distribution and collecting facilities for electric power and medical gases and solid wastes. Special attention was to be given to recommendations for the major services of steam, electric power and air conditioning supply and distribution systems. A copy of the engineers' report, entitled Utility Systems Study, University of Oregon Medical School, is on file in the Board's Office of Facilities Planning.
Description of Existing Facilities

Boiler Plant and Space Heating

The entire campus is served by a central boiler plant located at the lower level of the Teaching Hospital producing high pressure steam (225 psi) with oil-fired boilers. Three boilers, each with a generating capacity of 25,000 pounds per hour, were installed in December 1955 and a fourth boiler of 40,000 pounds capacity was installed in 1966, giving a total firm capacity of 115,000 pounds of steam per hour without backup and 75,000 pounds per hour with the largest unit out of service.

The four existing boilers, which occupy all of the available space within the plant, are fired with Bunker C oil which is stored in two 25,000 gallon underground tanks. Steam is distributed to the buildings by a network of 8-, 6-, 5-, 4-, and 3-inch pipes located underground in various utility conduits.

Space heating varies according to building function ranging from laboratory buildings requiring 100 percent make-up air to residence halls requiring heating and ventilating only, with steam demand varying accordingly. The plant was adequate to supply maximum system demand, with three boilers on-line and one standby through 1970-71. (With the completion of additional facilities, such as the new Basic Science Building and the Teaching Hospital Addition, the standby capacity has been eliminated.)

Space Cooling

The cooling of certain areas on the campus is achieved by the use of electrical centrifugal chiller units located within individual buildings, plus some small package units. All cooling systems use cooling towers except the Dental School Building which presently uses a mixture of well and city water. Cooling is installed in facilities having a critical need and has been provided in the newer facilities.

Emergency Power

Emergency power required by the City of Portland Electrical Code is generated by units located in and sized for individual buildings, with the exception of an undersized unit installed in the Tuberculosis Hospital.

Electrical Distribution System

The electrical distribution system is divided between the north campus, which is supplied from the Portland General Electric Company (PGE) Medical Substation with two 12.5kV feeders, and the south campus which is supplied from the Jackson Park Substation with one 12.5kV Feeder. (Subsequent to the completion of the CH2M/Hill report, a third 12.5kV feeder has been brought to the Medical Substation through the Jackson Park Substation.)
Power from the Medical Substation is supplied to the north campus at 4.16kV from either of two 12.5kV sources on two feeder lines. Power is metered at 4.16kV at this point through the two feeders each capable of 3,400 KVA without overload. Each of these feeder lines is a single conductor per phase to the first manhole and thence two conductors per phase. One half of each feeder supplies the Outpatient Clinic, Medical Research, Medical Science, Cafeteria and the Administration Building. The other half of each feeder goes to switchgear in the Teaching Hospital from which power is supplied to the Dental School and the Women's Residence Hall. A single circuit system from the Teaching Hospital is extended to the Physical Plant, Student Activities Center, Parking Structure I, Clinical Laboratory and Library. Both 4.16kV feeders from the Medical Substation to the first manhole must now be used in order not to exceed the 3,400 KVA capacity without overload, thus eliminating standby capacity. The Medical Substation has a 100 percent standby transformer capacity with a 25 percent growth capacity.

Power is supplied to the south campus by a single 4.16kV feeder to the Tuberculosis Hospital with branches to the Crippled Children's Division Building and the Center for Hearing and Speech. Gaines Hall and the Child Development and Rehabilitation Center are served and metered separately at 12.5kV.

Many of the transformers on the campus, including all of the older, smaller capacity step-down units located at power centers, are owned by PGE.

(Since the CH2M/Hill report was completed, 12.5kV service has been provided to subsequent facility additions - Basic Science Building and Teaching Hospital Addition - to facilitate changing the entire north campus to 12.5kV service with metering before step-down to 4.16kV, in anticipation of taking advantage of a lower rate schedule as well as better serving present-day power needs.)

**Storm and Sanitary Sewers**

The Medical School campus is now served by the City of Portland's combined storm and sanitary sewer system which also serves developed areas above and through the campus. Initial steps are being taken by the City of Portland to separate the sewers, beginning in downtown Portland.

Surface drainage within the campus is conditioned by elevations ranging from 320 to 600 feet above mean sea level, with ground slopes varying up to 45-50 percent. The campus area divides into three drainageways: (1) The primary one is Wood Street Gulch located between Veterans' Hospital Drive and Sam Jackson Park Road which drains to the east; (2) Marquam Gulch which drains the northern part of the campus to the north; and (3) the campus area south of Gaines Road which drains in a southerly direction. A storm water sewer carries water from the south campus area south and discharges in the bottom of a wooded draw on the campus.
Sewers carrying sanitary effluent (and storm water) flow either north to Marquam Gulch or east into the Wood Street Gulch. In addition to serving most of the campus, Wood Street Gulch sewers carry the effluent from the majority of the developed areas above and west of the campus.

A runoff and capacity study of the sewer system within the general campus area indicates a number of sewers that have calculated flows in excess of their capacities. Within the campus boundaries, these occur principally in the main sewer in the Wood Gulch which is over capacity up to 260 percent and also in segments of the sewer draining north to Marquam Gulch which are over capacity up to 175 percent. The developed area west of the campus indicates similar situations with calculated flows exceeding sewer capacity up to 395 percent and which are subject to surcharging and surface ponding.

Water Service and Distribution

The Medical School campus and associated hospitals provide the bulk of the water demand on Portland's Marquam Hill service. The maximum water consumption demand of the Medical School campus approaches 2,300,000 gallons per day. The peak-hour demand is projected to approach 2,500 gallons per minute. The rate of demand on an average heavy use day is projected to be about 1,600 gallons per minute. To this 1,600 must be added about 2,400 gallons per minute for possible fire fighting, totaling 4,000 gallons per minute which should be available at all times. This latter amount is available at the Marquam Hill service but not on the campus.

Water service to the campus is available through 8-inch and 12-inch Portland Water Bureau pipelines on S. W. Gibbs Street. An 8-inch line feeds principally the south campus and a 12-inch line on Sam Jackson Road serves the north campus. This service, along with the campus distribution system, is barely adequate only for the maximum daily and peak-hour water consumption. Service to meet average hourly demands plus fire flow will require improvements in both the City and Medical School campus distribution systems.

Natural Gas System

Natural gas required on the campus for laboratory and other uses is purchased from the Northwest Natural Gas Company and is received and billed through several metering points on a firm basis.

Solid Waste

Approximately 18,000 cubic yards of nonpathological waste are presently being generated in the main complex of the campus each year. Most of these unprocessed wastes are picked up by a refuse service and hauled to the city dump. Some incineration is done in Mackenzie Hall, the Teaching Hospital and the Tuberculosis Hospital.
Pathological Wastes

Pathological wastes such as cadavers, animal bodies, and other wastes, such as bandages or infectious materials, are disposed of by high temperature incineration. Units are located in Mackenzie Hall and the new Basic Science Building.

Utility Study Recommendations

The engineers' study and report documents the findings, future load predictions, alternative plans for expansion, and recommendations for upgrading and expanding the utility systems of the Medical and Dental School campus in a 286-page volume. Evaluations of various expansion plans were made giving consideration both to capital and operating costs. The cost comparisons of all schemes were based on (1) total accumulated costs for the period 1971 through 1990, (2) annual owning and operating costs, and (3) present worth of annual owning and operating costs.

Boiler Plant and Space Heating

Five alternative schemes for boiler plant expansion, space heating, and space cooling are presented, all based on the concept of a central boiler plant. These include a new boiler plant on the south campus, a new boiler plant on the north campus or expansion of the existing plant. These were evaluated for a number of factors including type of fuel used, land sites, equipment noise, air quality control, flexibility for future expansion, safety, costs and centralization of maintenance functions and operations.

A new boiler plant on the south campus is recommended as the most desirable of the five schemes.

Space Cooling

Centralized chiller capacity was considered within two of the schemes discussed above that included new boiler plants. Steam and electrically driven systems were considered.

It is recommended that electric centrifugal chillers continue to be installed in individual buildings until requirements expand considerably (beyond 3,000 tons), as the most economical solution.

Emergency Power

Central emergency power generation versus individual building units was considered. Installation costs appear to be about the same, but estimating future needs is enough of an unknown to make central emergency power generation not practical. It is recommended that localized emergency power units continue to be used where required and be tailored to specific building needs.
Electrical Distribution System

Once installed electrical loads are tabulated and estimates are made on future loads, it is a matter of devising a distribution system that has a high level of reliability at the price of an acceptable investment with sufficient flexibility for orderly growth.

The Engineers indicated that it would not be practical to secure a standby or secondary source of power from Pacific Power and Light to supplement the present Portland General Electric power source.

In order to maintain a high level of reliability, it is recommended that a campus distribution system be developed to provide two independently derived primary power sources in each load area utilizing 12.5kV distribution. Through metering the 12.5kV power at a single point, a favorable rate structure can be utilized.

The transition to 12.5kV distribution is recommended to be accomplished by providing all new buildings with 12.5kV service and providing a step-down to the existing 4.16kV service within the campus system. Although much of the present system is in good condition, some uprating of the 4.16kV distribution is needed. Initial consolidation to metering at 12.5kV for the north campus is economical and is recommended. Further consolidation would depend upon future developments. (Subsequent to the completion of the CHM/Hill report, the Basic Science Building and Teaching Hospital Addition have been provided with 12.5kV power).

Storm and Sanitary Sewers

The campus area is served by a combined storm and sanitary sewer system which, as a first priority, the report recommends be separated inasmuch as combined sewers are no longer considered good practice. Further, as noted above, there are some areas in the campus system that do not have adequate sewer capacity. The separation of campus sewers will require planning coordination with the City of Portland Public Works Department. It is expected that construction can be undertaken on an incremental basis starting from the lowest manhole and proceeding up grade on the campus.

The report notes a number of inconsistencies and gaps in available sewer data which will need to be clarified. It recommends locating and recording all existing sewers by plan and profile, requiring all construction drawings to show elevations with reference to mean sea level datum. It also recommends that a study be made of the nature, quantities and disposal problems of potentially hazardous waste waters. The report notes a few areas where manholes are not installed at changes in sewer alignment as required by good practice. These need further investigation and then correction.
Meeting #406-14

Water Service and Distribution

The report recommends extensive improvements to provide an adequate water supply for existing requirements and future development. Basic to completely adequate campus water pressure is increased City water main capacity to the campus, though there are important improvements which can proceed without City construction. Initially these include a pumped distribution system for the campus area north of Sam Jackson Park Road, looping dead-end distribution mains, installing air release valves at high points of pipelines, installing separate non-metered fire-service lines to all buildings containing automatic sprinkler systems, installing a booster pump for each sprinkler service and rearranging some backflow preventers. Additional improvements can and should be projected after City of Portland Plans are developed.

The report comments that a complete gravity-flow system would require nearly every pipeline in the campus system to be increased in size or paralleled, even then being restricted in pressure at upper floors, and thus recommends a combination pumped and gravity-flow system as the most practical water system improvement plan. The report has a series of specific recommendations for improvement of City water service to the campus, complementing the projected on-campus water distribution system.

The report recommends that water lines be contained within utility corridors in the north campus area.

Natural Gas System

Natural gas is purchased from Northwest Natural Gas Company on a firm basis through several metering points. The report suggests that some savings could be made by combined metering for Mackenzie Hall, Outpatient Clinic, the Teaching Hospital and the Basic Science Building.

The report also suggests that natural gas could be made available for boiler plant operation on an interruptible basis at rates somewhat more favorable than Bunker C. However, oil would have to be used on standby operation for approximately forty percent of the heating season, thus eliminating or nullifying the economic advantage, if any, in adapting the plant to use natural gas for fuel.

Solid Waste Disposal System

Of six variations of loose handling, compaction and incineration methods studied for solid waste disposal, the report recommends the installation of waste compaction equipment at ten locations where volume warrants it, the collection of loose refuse at remaining locations, and the discontinuance of incineration of non-pathological wastes if compaction equipment is installed.
Pathological Waste Disposal System

The report concludes that the Medical School complex has sufficient capacity to handle pathological wastes by high-temperature incineration.

Phase I Utility Improvements

As an addendum to the complete long-range report outlined above, the engineers were requested to assist institutional officials in formulating recommendations for the first phase of utility improvements at the Medical School in order to correct the most serious deficiencies in the present heating, electrical and water service systems. These recommendations were used as the basis for the 1973-1975 capital outlay requests submitted to the Board's Committee on Buildings and Other Physical Facilities on June 27 and approved by the Board on July 24, 1972.

Staff Recommendation

Officials of the University of Oregon Medical School have reviewed thoroughly the report of utility systems which CH2M/Hill, consulting engineers, prepared following their study of the campus and have recommended its acceptance. The Board's staff concurred in this recommendation with the understanding that it would not imply an obligation to follow all of the recommendations but would provide guidance to the staff of the institution and the Board's Office in the development of master planning for the improvement, expansion and extension of utility systems on the campus of the Medical and Dental Schools.

Committee Discussion and Recommendation

Mr. Hunderup emphasized the critical need for the improvements to the utility systems at the Medical School and urged that every effort be made to obtain the first phase of these improvements during the coming biennium.

The Building Committee recommended that the Board approve the recommendations as presented.

Board Discussion and Action

The Board approved the recommendation to accept the report as presented and to seek legislative authorization of Phase I as previously approved by the Board.
Meeting #406-16

Easement to EWEB for Utility Pole
Guy Wire, UO

(Considered by Building Committee, August 28, 1972.)

Staff Report to the Committee

At the time construction was begun on a pedestrian-bicycle underpass at the Southern Pacific Railroad tracks on the University of Oregon campus to provide access to the Willamette River pedestrian bridge leading to Autzen Stadium, utility pole guy wires were located within the bounds of the approach right-of-way. In order to proceed with construction, it was necessary to relocate the guy wires to maintain the stability of an existing utility pole. Following consultation with University officials, the Eugene Water and Electric Board relocated the guy wires and on behalf of the City of Eugene, has requested an easement for the use of a strip of land containing approximately 0.04 acres required for the installation.

The area affected by the proposed easement abuts property covered in an existing easement for utility services and is limited to poles, guys, wires and appliances in connection therewith. A map showing the location of the proposed easement is on file in the Board's Office and the form of the easement has been approved by the Board's attorney.

Staff Recommendation

In view of benefits which accrue to the University of Oregon by virtue of the construction of the pedestrian-bicycle underpass at the Southern Pacific Railroad tracks north of Franklin Boulevard, it was recommended that the appropriate Board officers be authorized to execute an easement in favor of the City of Eugene, acting by and through the Eugene Water and Electric Board, for the use of property adjoining the underpass for utility services.

Committee Discussion and Recommendation

The Building Committee recommended that the Board approve the recommendation as presented.

Board Discussion and Action

The Board approved the recommendation as presented.

Exchange of Property with Dr. Gordon C. York, UO

(Considered by Building Committee, August 28, 1972.)

Staff Report to the Committee

For some time, the University of Oregon and Dr. Gordon C. York of the Eugene Animal Hospital on Franklin Boulevard have shared a common property line problem. In order to resolve this problem, it is proposed that there be an exchange of ownership of three minor parcels of land described as follows:
Parcel 1 is a small triangular section starting at the Southeast corner of the Gordon C. York property beginning at nothing and running north 35.58 feet at which point it is 0.37 feet wide. This parcel contains approximately 6.58 square feet.

Parcel 2 is a wedge-shaped piece in the northeast corner of the York property having the following dimensions: 5.52 feet on the south; 91.40 feet on the west; 9.80 feet on the north; and 93.00 feet on the east. It contains approximately 706.25 square feet.

The total area of Parcels 1 and 2 is 712.83 square feet. The property is now owned by the Board on behalf of the University of Oregon.

Parcel 3 is a rectangular section on the north side of the York property and measures 10.52 feet by 72.19 feet. It is across the full width of the property and contains approximately 759.44 square feet. It is currently owned by Dr. York.

This exchange of property would provide joint ownership of the Mill Race in this area, and would insure that there would be no further encroachment on University property adjacent to the Eugene Animal Hospital. The effect of the exchange would be to regularize the shape of the remainder of Dr. York's property and to transfer title to the Board for the north half of the Mill Race where the Mill Race runs between the two ownerships.

The three parcels have been appraised by an independent appraiser, and the values thereof, as well as the incidental costs relating thereto, are tabulated as follows:

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<th>University of Oregon</th>
<th>Dr. Gordon C. York</th>
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The Board's attorney has reviewed the proposal and has indicated that it would fulfill statutory requirements applicable to the exchange of properties (ORS 271.310 and 271.340) if approved by the Board.

Staff Recommendation

It was recommended that the appropriate officers of the Board be authorized to exchange two minor parcels of land at the University of Oregon for a small portion of the York property which is located between Franklin Boulevard and the Mill Race.
Committee Discussion and Recommendation

The Building Committee recommended that the Board approve the recommendation as presented.

Board Discussion and Action

The Board approved the recommendation as presented.

(Considered by Building Committee, August 28, 1972.)

Staff Report to the Committee

On October 25, 1971, the Board approved preliminary plans which Architects Lutes and Amundson had prepared for the remodeling of a portion of Straub Hall at the University of Oregon and authorized the preparation of final plans and specifications, bidding and contracting for the alterations contemplated within a budget of approximately $135,000, subject to favorable action by the State Emergency Board. It was indicated that the work would involve minimal alterations to four floors of one section, Unit H, containing a net assignable area of about 4,135 square feet, including the following:

1. Piping would be installed in the building and connected to the chilled water mains from the central sources in the campus heating, power and cooling plant.

2. Radiators would be removed from the rooms and new individual fan-coil units would be installed and connected to existing steam lines and new chilled water lines.

3. On the first floor, an existing lounge would be converted to a conference room.

4. On two floors, prefabricated sound rooms would be installed and provision would be made for the installation of two existing computers (a PDP-9 and PDP-15).

5. Some of the rooms would be provided with sound walls, lights and dimmers and hook-ups with the computers.

6. Hallways would be carpeted.

7. Wiring and lighting levels would be upgraded.

Other phases of rehabilitation and capital improvements within portions of Units F and G were identified, but it was acknowledged that unless additional resources could be made available in the current biennium, the remainder of the conversion of the former residence hall to academic use would be dependent upon legislative authorization in 1973.
Immediately following the Board meeting, institutional officials requested that further architectural planning be deferred pending a study by members of the staff to determine whether the initial phase of remodeling would be most compatible with the proposed use of the entire building by the Psychology Department. While this study was being undertaken, an application was prepared and, with the consent of the State Emergency Board, was submitted to the National Science Foundation seeking grant support to assist in financing some of the remodeling work and the acquisition of specialized equipment for the Psychology Department. This application is now being processed by the federal agency, and it is expected that notice of approval or rejection will be received within the near future.

Following the completion of the comprehensive review by the staff of the institution, the project architects were asked to make a feasibility study of alternative locations for the automated laboratory and related facilities proposed within the initial remodeling work. The conclusion was reached that it would be most appropriate to utilize the basement area within Straub Hall for this purpose, rather than the four floors of Unit H as originally proposed. This would permit the future assignment of former dining areas on the main floor as classrooms and would facilitate better use of the remainder of the building for the instructional and research programs of the Psychology Department. By utilizing the basement, it appears that sufficient space would be available to accommodate all of the Department's specialized requirements, other than animal quarters, within Straub Hall.

Accordingly, the architects have prepared revised preliminary plans for the initial phase of construction involving a net assignable area of approximately 4,292 square feet within the basement to provide a computer room, a teletype room, an electronics shop, a tape library, offices for the systems programmer and a project programmer, 19 basic experiment rooms, two sound chambers and associated monitor areas, a reception area and a conference room. Carpeting would be specified as the floor covering in the experimental cubicles and corridor, the teletype room and certain other areas needing special acoustical treatment. Other floors would be finished with vinyl or asbestos tile. The estimated budget requirements would be approximately $247,500, of which the direct construction costs would be about $181,000. These costs include providing basic utility services which are not now available within the building and must be included as part of the first phase of the remodeling.

As a supplement to state fund resources of $132,500 which are available from the 1971-1973 capital outlay program and the estimated federal grant of $30,000, it is proposed that building use credits of $85,000 be applied to the project to meet the budget requirements of $247,500. If the federal grant is not approved and substitute resources are not available, some of the basic experiment rooms would be deleted, and the conference room would be left unfinished.
Staff Recommendation

It was recommended that the revised preliminary plans for the first phase of remodeling Straub Hall for the Psychology Department at the University be approved and that the appropriate Board officials be authorized to instruct the architects to proceed with the completion of the final plans and specifications for the project, based on a direct construction cost allowance of $181,000. Provision would be made for deductive bid alternates to assure reasonably the receipt of bids within total resources ranging from $215,500 to $247,500, depending upon the availability of federal grant funds.

Committee Discussion and Recommendation

The Building Committee recommended that the Board approve the recommendation as presented.

Board Discussion and Action

During the discussion, Mr. Hunderup indicated that the Emergency Board on September 18, 1972, had deferred action on the Straub Hall remodeling pending an inspection of the facility when members are on the campus.

The Board approved the recommendation as presented.

Staff Report to the Board

Officials of Oregon State University have been advised that the Port of Newport and the City of Newport intend to construct new water and sewer trunk lines under Yaquina Bay in order to serve certain properties located on the south side of the Bay, including the Marine Science Center facilities. It is expected that the Economic Development Administration of the federal government will provide approximately one-half of the total project cost of about $346,000, and that the remainder will be financed through assessments to the institution and the Fish Commission, plus resources available to the Port of Newport and the Department of Environmental Quality. (The portion to be paid by the Fish Commission was subject to authorization by the State Emergency Board on September 18, 1972.)

Tentatively, it is estimated that the share of cost to be borne by Oregon State University, including building connections, will be approximately $75,000. In anticipation of these requirements, which are needed to provide more adequate service to the Marine Science Center, the institution has reserved capital outlay building use credits which have accumulated through indirect cost allowances on instructional and research contracts and grants.

Staff Recommendation to the Board

It was recommended that the appropriate Board officials be authorized to allocate approximately $75,000 from capital outlay building use credits available to Oregon State University for new water and sewer
lines serving the Marine Science Center at Yaquina Bay if the con-
struction of these utility improvements is undertaken by the Port of
Newport in conjunction with the City of Newport.

Board Discussion and Action

During the discussion, Mr. Hunderup said that the Emergency Board
had deferred until its October meeting action on the request of the
Oregon Fish Commission to provide a portion of the financing of
the project. He said it was his understanding that the Emergency
Board was inclined to support the project but wanted to be assured
that the portion to be absorbed by the various units of state and
local government and the federal grant would be proportionate to
the amount of the utility requirements for these agencies. The
Emergency Board also wished to examine the possibility of some
future repayment of state funds in the event that other users would
be connected to the utility system.

The Board approved the recommendation as presented.

Teacher Production

(Considered by the Committee on Academic Affairs, Personnel, and
Public Affairs, June 26 and August 29, 1972.)

At the June 26 meeting of the Board's Committee on Academic Affairs,
the Board's Office presented a report to the Committee entitled
Production of Elementary and Secondary School Teachers in Oregon
State System of Higher Education.

Both this report and a subsequent report dated August 29, 1972, titled
Teacher Production in the State System are bound in a separate docu-
ment and will be considered an integral part of the Board minutes.

The report presented national and state data which supported the view
that there is an undeniable surplus of elementary and secondary school
teachers, given present public school funding levels and staffing
practices. And the prolongation into the 1970's of the teacher
education trends of the 1960's indicates that, given current public
school funding and staffing practices, the already sizable surplus
of teachers would increase during the 1970's.

The report also noted, however, that, although the projected surplus
of teachers seems more than is justified, several factors mitigate
the seriousness of the surplus and ought to be taken into account
in planning production of teachers in the 1970's:

There must be a surplus of persons qualified to teach if the
elementary and secondary schools are to be staffed with quali-
fied teachers, for a substantial number of those who complete
teacher preparation programs elect not to enter teaching at all. In
the late 1960's, that number constituted approximately 20
percent and 40 percent, respectively, of those who completed
elementary and secondary teacher education programs and were
qualified to teach.
Over many years, teacher education programs have been demonstrated to be useful preparation for entry into and progress in many lines of work other than elementary and secondary teacher education. This is so because: (1) teacher education programs are essentially liberal arts programs, providing students with an opportunity to secure a sound general education and competence in some specific fields of knowledge, and (2) the limited amount of professional work required in the teacher education programs provides insights into many of the basic problems encountered in establishing effective interpersonal relationships essential to success in many lines of endeavor.

The report acknowledged, nonetheless, that some adjustments are needed to bring teacher production-supply into greater congruity with demand for teachers, and identified the following as some of the alternative courses of action conceivably open in making needed adjustments.

1. Increase the demand for elementary and secondary school teachers by providing more adequate elementary and secondary school programs.

The report concluded that citizen antipathy toward property tax increases makes unlikely an increase in local tax support of public schools adequate to permit significant improvement in staffing practices in existing programs or the launching of new programs to meet identifiable educational needs; that although there is a rising hope that state and federal support of public elementary and secondary schools will permit improvements in education resulting in increased demand for teachers, it is unrealistic to assume that sufficient funding would be available in the near future to permit the adjustment of the supply-demand equation solely by increasing demand sufficient to absorb all available qualified teachers. Some adjustments must also be made in the production-supply side of the equation.

2. Reduce production and supply of teachers by one or more of several possible approaches, as follows:

a. Depend wholly or in part upon slackening student interest in teacher education, growing out of the students' perception of the depressed teacher employment market, to reduce admissions and production in teacher education to a level more nearly congruent with the level of demand.

This approach assumes that the institutions will take strong affirmative action to assure that prospective teacher education students are fully informed as to the employment situation in teaching.

146.8 percent and 6.4 percent, respectively, of the total of 186 credit hours required for the baccalaureate degree in the elementary and secondary teacher education programs at the University of Oregon, for instance.
Implied in this approach is the assumption that individuals fully informed as to the current and projected employment outlook will, consistent with their economic interests and their academic abilities, elect education or other occupational preparation to qualify them for employment that will be both satisfying and adequately remunerative.

This free choice by individuals of their fields of study, limited principally by the individual's abilities, interests, and financial resources, is consistent with the social values that have long under-girded education and occupational preparation generally in the United States.

State System teacher education programs are seeking to make a maximum use of the foregoing approach to a reduction in students electing teacher education. The institutions are informing prospective students of the scarcity of employment opportunities and the stiff competition they face both in the teacher education program and in seeking a teaching position when graduated.

b. Improve the standards of selection for admission to teacher education, coupling improved standards with reduced admissions quotas in teacher education.

The report described some of the efforts being made by State System institutions to improve their admission-to-teacher-education policies and practices, and to reduce admissions quotas to the elementary and secondary teacher education programs, and presented data as to number of elementary and secondary school teachers produced and projected, as evidence of institutional plans to reduce production, particularly of elementary teachers.

c. Eliminate teacher education or some aspect of teacher education (e.g., elementary teacher education) from one or more of the six multipurpose institutions now offering teacher education.

The report reviewed the probable impact upon the University of Oregon and Oregon State University of the elimination of elementary teacher education from these institutions and concluded:

(1) Some students who would otherwise enroll in the University of Oregon or Oregon State University would not do so, were there not available there an elementary teacher education program.

(2) Students affected by a decision to drop elementary education at either the University of Oregon or Oregon State University would be predominantly women.
(3) Students affected by a decision to drop elementary teacher education from the University of Oregon or Oregon State University would be Oregon students since the great preponderance of elementary teacher education students are from in state.

A sizable portion of those affected live within commuting distance of the two universities - 47 percent of the elementary teacher education students at the University of Oregon and 38 percent of those at Oregon State University live within commuting distance of the institution.

(4) Oregon State University reports that elimination of elementary teacher education would affect adversely (a) the already substantial imbalance between men and women on the Oregon State University campus, and (b) Oregon State University's ability to fill its women's residence facilities. One-third of those living in Oregon State University sorority houses, one-fourth of the women in the OSU cooperatives, and one-sixth of the women living in OSU residence halls are education majors.

(5) The extent of the current operating cost financial impact resulting from the elimination of elementary teacher education from the University of Oregon and Oregon State University depends somewhat upon the assumptions one makes as to where the students like those now enrolled in the UO and OSU elementary teacher education programs would go to school if the University of Oregon or Oregon State University were not to offer an elementary teacher education program in the future. The report examined several of these assumptions and the possible impact under each assumption.

(6) Examination of the question as to whether physical plant savings would result from the elimination of the elementary teacher education program at the University of Oregon or Oregon State University suggests that there would be no significant saving.

(7) There would be an adverse impact on the undergraduate secondary teacher education.

(8) There would be an adverse effect on the graduate education programs offered in the field of education at the University of Oregon and Oregon State University.

(9) The ability to secure federal funding that has brought millions of dollars into Oregon in the interests of teacher education - particularly at the University of Oregon - would be adversely affected.
(10) Oregon State University would be giving up its leadership role in the development of careers orientation to elementary education that it has had under development the past three years with financial assistance from the U.S. Office of Education and the collaboration of the State Department.

(11) The institutions would find it difficult properly to prepare secondary school teachers for certification under the new certification regulations adopted by the State Board of Education in December 1971, to become effective October 15, 1972.

(Under the new certification regulations the basic and standard elementary teacher certificates are to be valid for grades kindergarten through nine. Basic secondary teacher certificates are to be valid for teaching in grades five through twelve.)

(12) Elimination of the elementary teacher education program would have an impact on departments and schools other than the school of education because of the fact that a substantial portion of the elementary teacher education student's program consists of courses outside the school of education.

(13) Elimination of elementary teacher education at either the University of Oregon or Oregon State University would deny to students attending a major university the option of entering a field of professional employment disposing of a great many job opportunities. This would have a dual effect: it would deny to the place-bound student opportunity to enter the elementary teacher education field, and it would foreclose the institution's making the contribution to elementary teacher education which an academically well-endowed institution, such as either of these two institutions, is capable of making.

In summarizing its review of the likely effects of eliminating elementary teacher education from either the University of Oregon or Oregon State University, the Board's Office report concluded that such action would not be the best alternative open to the State System for bringing production and supply of elementary teachers into a more reasonable balance with the demand for elementary teachers. The report then presented, as follows, its recommendations with respect to teacher production in the State System of Higher Education.

Recommendations

1. That the institutions of the State System assiduously seek to improve and upgrade: (a) the selection processes by which students are selected for admission to the teacher education program and (b) the selective retention processes through which
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teacher education students are evaluated periodically throughout the duration of their programs as the basis for retention in the program or elimination therefrom.

2. That the institutions seek to ensure that students applying for admission into teacher education are informed as to the state of the employment market for teachers in various subject matter areas both now and, insofar as can be projected, in the future in which the students will be seeking initial employment in teaching.

3. That State System efforts to redress the imbalance between the production-supply of elementary teachers and the demand therefor as measured in terms of unfilled budgeted positions now, and the likely demand in the future, take the form of reduced production of elementary teachers in the State System institutions, in particular in the universities of the State System.

4. That the Board of Higher Education not eliminate the elementary teacher education program from any of the State System institutions.

Action of the Academic Affairs Committee (June 26)

On June 26, following a lengthy discussion of the aforementioned report, the Board's Academic Affairs Committee postponed action on the Board's Office recommendations (cited immediately above). The Committee asked that in the interim period between June 26 and August 29, the date of its next meeting, (1) the Board's Office and the institutions of the State System examine again the projected relationship between production of elementary and secondary school teachers by State System institutions in the 1970's and the anticipated demand for elementary and secondary school teachers during the same period, with a view to ensuring that any projected imbalance between production-supply of and demand for elementary and secondary teachers is not unreasonably large—that is, that the imbalance can be defended as a "permissible" imbalance, (2) the Board's Office examine again (a) the estimates of elementary school enrollments in Oregon schools in the 1970's, as prepared by the State Department of Education, and (b) the Board's Office estimates of the number of beginning elementary teachers in Oregon, and that representatives of the State Department of Education be asked to be present at the August 29 meeting of the Committee for the purpose of discussing the department's estimates of (1) public school enrollments in the 1970's, and (2) demand in Oregon for beginning elementary teachers in the 1970's.

August 29 Committee Meeting

At the August 29 meeting the Board's Office reviewed for the Committee anticipated demand for beginning elementary teachers, proposals for bringing State System production of elementary teachers into reasonable proximity of the estimated demand, and the situation of supply and demand in respect to secondary teachers. Dr. Jesse V. Fasold, deputy superintendent of public instruction, and Mr. Lloyd T. Thomas, coordinator of school and college finance and statistical services, were present from the State Department of Education.
In respect to anticipated demand for beginning elementary teachers, it was observed that this is a function of experience, based upon past demand in Oregon for beginning teachers, and projections as to the impact of elementary school enrollments and changes in staffing practices and in elementary school programs in the future. According to reports of the State Department of Education, the number of teachers new to their districts in Oregon declined from 4,293 in 1969-70 to 3,147 in 1970-71, with substantially the same figure (3,135) for 1971-72.

The number of beginning teachers in Oregon in 1969-70 was reported to be 2,134 in 1969-70, 1,556 in 1970-71, with an increase to 1,662 in 1971-72.

Experience in Oregon has been that more than 50 percent of the beginning teachers employed each year have been elementary teachers. There were roughly 800 beginning elementary teachers in 1970-71, 890 in 1971-72.

State Department of Education projections of enrollments in the elementary and secondary schools of Oregon are that enrollments will decline from 340,492 in 1969-70 to 325,048 in 1975-76, a decline of more than 15,000 students over a six-year period, an average of reduction of approximately 2,500 per year. Assuming a 25:1 ratio, this represents a reduction in demand for teachers (both beginning and returning) of approximately 100 per year.

Offsetting this anticipated reduction in enrollments in the future will be, the Board's Office believes, improved staffing practices and the introduction of new programs (e.g. kindergartens, increased service to handicapped children) made possible by improved funding of the public schools through state and federal support of public education.

The Board's Office believes that given the variables involved, including a possible change in the ratio of beginning and returning teachers, the demand for beginning elementary teachers for the 1975-76 school year may be projected at 800. Adjustments for the 1976-77 and succeeding years can be made when more is known about the 1971-72 situation and when figures are in for 1972-73.

A Permissible Imbalance Between Production and Supply of and Demand for Elementary Teachers. The Board's Office believes that there can be - indeed needs to be - a level of production of elementary teachers such as to result in a surplus of persons qualified as elementary teachers in excess of the number of unfilled budgeted teaching positions in the public schools normally filled by beginning elementary teachers.

If one assumes that there will be placement for 800 beginning elementary teachers in the years just ahead (1973-74 - 1975-76), and if one assumes further that roughly 80 percent of those who qualify as
elementary teachers will take employment as teachers, then roughly 1,000 elementary teachers would need to be produced each year 1972-73 - 1974-75 to fill the need.

Since the projected production of elementary school teachers (in State System and independent colleges and universities combined), set forth in Table I below, exceeds the 1,000 by 342 in 1972-73, 289 in 1973-74, and 277 in 1974-75, one may reasonably ask why institutions of the State System do not further reduce projected production to bring it more into line with the 1,000 figure.

The response is that the numbers projected for 1972-73 and 1973-74 represent students already in the pipeline. These are students who have completed two years of the elementary teacher education program and who will be seniors and juniors in 1972-73. It would be an unwarranted breach of institutional faith to turn them out from the program at this stage of their collegiate careers, except for cause involving dereliction on the part of the student.

Projected production for 1974-75 may, however, be adjusted without serious impairment of institutional commitments to students. The projected production is 1,277, of which 1,127 are projected for

The state system institutions listed in order of production.
production by State System institutions, 150 by the independent colleges and universities. The State System figure represents a 25 percent reduction in production from the 1,508 produced in 1970-71. A reduction of State System projected production in 1974-75 to 1,000 would represent a reduction from the high of 1,508 in 1970-71 of just over one-third (33.7 percent). This would leave the private institutions at a production level of 150, which is approximately the same number they produced in 1969-70 (151). Conceivably, the independent colleges and universities will also wish to reduce their production of elementary teachers, although their programs, individually, are already small. If we tailor State System production precisely to projected need, the production of the independent colleges should be considered a needed cushion which, together with the natural movement of teachers from one state to another will provide Oregon school districts with the choice of applicants requisite to the delicate task of matching teacher to job that is essential to the improvement of instruction in the public schools. If this cushion were not available, the Board's Office could not in good conscience propose reductions of State System production of elementary teachers to the 1,000 level. To reduce total production below this level would simply give jobs to out-of-state young people which would have otherwise gone to Oregon graduates.

The Board's Office proposes that if a reduction of projected 1974-75 production of elementary teachers to bring it into proximity to the 1,000 production level is to be made, it be made in the three universities, by cutting each back to a production of 180. The recommended quota for elementary teacher production would become then:

<table>
<thead>
<tr>
<th>Institution</th>
<th>Production 1970-71</th>
<th>Quota 1974-75</th>
<th>% Change 1970-71 to 1974-75</th>
</tr>
</thead>
<tbody>
<tr>
<td>EOC</td>
<td>91</td>
<td>90</td>
<td>-1.1</td>
</tr>
<tr>
<td>SOC</td>
<td>163</td>
<td>170</td>
<td>+4.3</td>
</tr>
<tr>
<td>OCE</td>
<td>278</td>
<td>236</td>
<td>-15.1</td>
</tr>
<tr>
<td>CSU</td>
<td>298</td>
<td>180</td>
<td>-39.6</td>
</tr>
<tr>
<td>UD</td>
<td>338</td>
<td>180</td>
<td>-46.7</td>
</tr>
<tr>
<td>PSU</td>
<td>340</td>
<td>180</td>
<td>-47.1</td>
</tr>
<tr>
<td>Total</td>
<td>1,508</td>
<td>1,036</td>
<td>-31.3</td>
</tr>
<tr>
<td>Ind. Instit.</td>
<td>139</td>
<td>150</td>
<td>+7.9</td>
</tr>
</tbody>
</table>

Eastern Oregon College's projected production of elementary teachers in Table I is 70. A quota of 90 would permit Eastern Oregon College to produce approximately as many teachers as it did in 1970-71 (91).

Although the Southern Oregon College figure (170) represents a 4.3 percent increase over production in 1970-71, the 1970-71 production was down 15.5 percent from 1969-70 (Table I), contrary to the experience of most of the State System institutions. The 170 figure represents a reduction of 11.9 percent from the 193 produced by Southern Oregon College in 1969-70.
Oregon College of Education is left at its projected figure of 236 on the grounds that, although it is a quota higher than any other State System institution by more than 50 students, teaching is the primary focus of Oregon College of Education.

The proposed quota of 180 for each of the three universities permits them an elementary education enrollment adequate to the offering of a good quality program at a reasonable cost.

**Secondary Teacher Education Production in the State System**

The Board's Office and the institutions have been much less concerned at overproduction of secondary school teachers than at overproduction of elementary school teachers.

The reason is principally that much more often than in the case of elementary education students, students entering secondary teacher education programs do so as a sort of job insurance which they can fairly easily acquire. Teaching for many who qualify for the secondary teacher certificate is a second or third choice as to occupation.

The characteristics of the secondary teacher education program which invite this use of the program are:

- The relatively small amount of professional work required of the secondary education student to qualify for a certificate. At the University of Oregon, for instance, the requirement in professional work consists of 27 credit hours - 12 credit hours of work in the school of education (6.4 percent of the total of 186 credit hours required for the baccalaureate degree) and 15 credit hours of student teaching.

- The placement of the required professional work in the upper-division years, permitting students to enter the teacher education program later in their collegiate careers than is true of the elementary teacher education students whose professional work begins in the freshman year and totals 46.3 percent of the total of 186 credit hours required for graduation.

However, the surplus of teachers has been much in news of late. And there is an unwillingness in many quarters to see institutions of higher education continuing to turn out secondary teachers in undiminished numbers in the face of an apparent surplus. There is likewise an unwillingness to rely upon student perceptions of employment opportunities in teaching to reduce the numbers of students entering teacher education. Some overt action on the part of the governing board(s) and the teacher education institutions to cut down the imbalance of supply and demand in the teaching field is desired.

The Board's Office report discussed several alternatives for achieving a reduction in the production of secondary school teachers:

- The most basic action would be for the Board to establish for each institution a total overall secondary teacher production quota (alternative No. 1).
A refinement would be to establish also subsidiary quotas for each institution in each subject matter field in which the institution prepares secondary teachers (alternative No. 2).

A second refinement would be to couple with alternative No. 1, or with alternatives No. 1 and No. 2, a reallocation of the subject matter fields in which the institutions are authorized to produce secondary teachers (alternative No. 3).

In the application of alternative No. 1 to the State System production of secondary teachers, the Board's Office would first recommend that the preparation of vocational-technical teachers at Oregon State University be considered outside the quota. Rather than being in surplus, vocational-technical teachers are still in extremely short supply, both in Oregon and nationally. Recent studies by the interinstitutional committee on career education and vocational teacher preparation (appointed by the Board's Office in December 1971) and a special survey and projection by the State Department of Education and Oregon State University, which will be reported to the Board's Committee on Academic Affairs at its October meeting, show that the situation will become even more critical in Oregon during the remainder of the 1970's unless steps are taken to increase the supply of persons prepared to teach in these fields. In the table below, Oregon State University's production of vocational-technical teachers has been omitted from the Oregon State University figures, and the total proposed production for 1974-75 has been set at a figure determined by the projected demand for secondary teachers other than in vocational-technical fields.

**TABLE II**

**RECOMMENDED 1974-75 SECONDARY TEACHER PRODUCTION QUOTAS FOR STATE SYSTEM INSTITUTIONS**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>EOC</td>
<td>88</td>
<td>65</td>
<td>-26.1</td>
<td>65</td>
<td>-26.1</td>
</tr>
<tr>
<td>SOU</td>
<td>139</td>
<td>140</td>
<td>+.7</td>
<td>125</td>
<td>-10.0</td>
</tr>
<tr>
<td>OCE</td>
<td>255</td>
<td>280</td>
<td>+ 9.8</td>
<td>215</td>
<td>-15.7</td>
</tr>
<tr>
<td>PSU</td>
<td>293</td>
<td>200</td>
<td>-31.7</td>
<td>175</td>
<td>-40.3</td>
</tr>
<tr>
<td>OSU</td>
<td>285</td>
<td>226</td>
<td>-20.7</td>
<td>170</td>
<td>-40.3</td>
</tr>
<tr>
<td>UO</td>
<td>453</td>
<td>446</td>
<td>-1.5</td>
<td>270</td>
<td>-40.4</td>
</tr>
<tr>
<td>Total</td>
<td>1,513</td>
<td>1,357</td>
<td>-10.3</td>
<td>1,020</td>
<td>-32.5</td>
</tr>
</tbody>
</table>

1 Listed in the order of number of secondary teachers produced in 1970-71.
It will be observed from Table II that:

1. Eastern Oregon College's June 26 estimate was that it would produce in 1974-75 65 secondary teachers, a number well above production of 47 in 1969-70 but below peak production of 88 in 1970-71. Given the fact that Eastern Oregon College's production is very small in any one subject matter field (except in English and health and physical education) and because Eastern Oregon College can ill afford any further reduction in its total overall enrollments, the Board's Office does not recommend that Eastern Oregon College be asked to cut back from its projected production of secondary teachers. It should be noted that Eastern Oregon College's projected figure is an honest effort to assess realistically student interest in teacher education, not a reflection of any overt action on the part of the institution to reduce production. In view of Eastern Oregon College's enrollment problems, the Board's Office would not consider the estimated production at Eastern Oregon College a quota which could not be exceeded.

2. Southern Oregon College's projection for 1974-75 is that Southern Oregon College will produce essentially the same number of secondary teachers (140) that it produced in 1970-71 (139). Southern Oregon College's heaviest production is in social studies and health and physical education. In the light of the general overproduction of social studies and health and physical education teachers, there would be reason for Southern Oregon College to cut back production in these two fields. But Southern Oregon College is quite dependent on teacher education (50 percent of its graduates in 1970-71 were qualified to teach) and hence the Board's Office is reluctant to see Southern Oregon College assigned a cut proportionate with the larger institutions. The Board's Office is proposing a reduction of 10 percent to 125.

3. Oregon College of Education's principal role in the State System being the preparation of teachers (84.2 of its graduating students in 1970-71 were qualified to teach). The Board's Office recommends that Oregon College of Education be authorized a quota of 215 for 1974-75. This is a reduction of 15.7 percent below 1970-71 production.

4. Oregon State University and the University of Oregon are large, multipurpose universities. Although teacher education is important to them, and their contributions in teacher education are important to the people of Oregon, the Board's Office recommends that they plan on a 40 percent reduction in secondary teacher production from 1970-71 to 1974-75 at both institutions.

5. Portland State University's June 26 projection for 1974-75 contemplated a reduction of 31.7 percent in production from 1970-71. The Board's Office proposes a 40 percent reduction, bringing their production to 175.
The Board's Office believes that if the overall teacher production quotas suggested in Table II were adopted by the Board, the three universities, which have produced the great majority of secondary teachers in the State System, would have to reduce production in the large production fields, in which there has traditionally been the greatest imbalance in supply-demand. According to figures from the State Department of Education, which contain some discrepancies because of programming difficulties, the fields of greatest overproduction in 1970-71 in Oregon (employment in 1971-72) were music, foreign languages, health and physical education, and social science; fields in which there was some overproduction were art, English, and home economics; production was sufficient to demand in mathematics; there was some underproduction in science fields and business education; and production was far below demand in industrial arts and trade and industrial education.

Because of their close relationships with the schools they serve, the schools and departments of education are well aware of the needs of these schools for teachers before these needs are translated into statistical reports of teachers new to their district.

If the institutions were admonished to make their reductions in production in accordance with their placement experience, it seems certain that they would make their most substantive reductions in the fields in which there is the greatest supply-demand imbalance without the establishment of subsidiary quotas.

In respect to alternative No. 3, the Board's Office takes the following position:

1. Southern Oregon College and Eastern Oregon College, as regional institutions serving the southern and eastern regions of Oregon, should be permitted to continue, as a service to their regions, to offer the teacher education programs they presently offer.

Some small reduction in cost would be effected by withdrawing authorization to offer the teacher education programs in which Southern Oregon College and Eastern Oregon College produce fewer than five teachers, or fewer than ten. The other effects on Southern Oregon College of the withdrawal of the foregoing authorizations would be to (a) reduce the options in teacher education open to students who live and attend school in the southern region of the state, and (2) affect adversely the ability of Southern Oregon College to offer departmental major programs.

Eastern Oregon College's problems are compounded because of the fact that its total overall enrollment dropped significantly in 1971-72. Teacher education has always been a significant aspect of Eastern Oregon College's offerings because of Eastern Oregon College's service to students residing in the eastern region and because the eastern Oregon public schools have had close and continuing ties with Eastern Oregon College in staffing their schools. Dropping of the authorizations in the low production secondary teacher education would offer some small
reductions in FTE assignments, which would have to be weighed against the reduced services to eastern Oregon and the impact upon Eastern Oregon College.

2. Oregon College of Education, the only institution in the State System devoted principally to teacher education, has but two fields (foreign languages and chemistry) in which it estimates it will prepare fewer than 10 teachers in 1971-72. The withdrawal of authorization to offer a teacher preparation program in chemistry would not result in any significant saving, since prospective chemistry teachers enroll in the same methods class as those preparing in general science/physical science and are supervised by the same instructors, but it would not have a significant effect upon Oregon College of Education's operations either. As for foreign language, the reduction in cost would be small (.16 FTE in 1971-72) and when weighed against Oregon College of Education's principal focus, the Board's Office recommends that Oregon College of Education be permitted to continue their preparation of foreign language teachers.

3. Insofar as the three universities are concerned, allocations should be considered in terms of (1) fields to be allocated, (2) teacher education fields not to be allocated, and (3) fields which conceivably could be allocated, as follows:

Programs now allocated or to be allocated among the three universities.

<table>
<thead>
<tr>
<th>Field</th>
<th>Allocations in three universities</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OSU</td>
</tr>
<tr>
<td>Business Education</td>
<td>x</td>
</tr>
<tr>
<td>Home Economics</td>
<td>x</td>
</tr>
<tr>
<td>Industrial Arts</td>
<td>x</td>
</tr>
<tr>
<td>Trade and Industrial Educ.</td>
<td>x</td>
</tr>
<tr>
<td>Agriculture</td>
<td>x</td>
</tr>
<tr>
<td>Journalism</td>
<td>-</td>
</tr>
</tbody>
</table>

To achieve the foregoing allocations would require that the University of Oregon give up its present authorization to prepare teachers in business education (action it has already taken), and that Portland State University and Oregon State University give up their allocations to prepare teachers in journalism at the basic norm level.

Programs not to be restricted in their allocation.

<table>
<thead>
<tr>
<th>Program</th>
<th>OSU</th>
<th>UO</th>
<th>PSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Biology</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>English</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Social Studies</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Health and Physical Education</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Sciences (Chemistry, Physics, General Science)</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>
Possible Allocations. Fields in which conceivable allocations could be made among the three universities are shown below, with production in these fields in 1971-72:

<table>
<thead>
<tr>
<th>Program</th>
<th>OSU</th>
<th>UO</th>
<th>PSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speech Drama</td>
<td>14</td>
<td>18</td>
<td>11</td>
</tr>
<tr>
<td>Art</td>
<td>25</td>
<td>45</td>
<td>8</td>
</tr>
<tr>
<td>Music</td>
<td>9</td>
<td>41</td>
<td>14</td>
</tr>
<tr>
<td>Foreign Languages</td>
<td>5</td>
<td>38</td>
<td>13</td>
</tr>
</tbody>
</table>

The list of programs now allocated or to be allocated among the three universities is a statement of the situation as it will be in 1972-73.

The list of programs which it is proposed not be restricted in their allocation includes:

- Programs in fields of fairly large teacher production and employment opportunities (English, social studies, health and physical education). Reductions in production of teachers in these fields will be made within the institutions to bring production more nearly into line with demand.

- Programs of fairly good sized production in fields in which production is currently in reasonable balance with demand (e.g., mathematics, biology).

- Programs of small production which are based on substantial academic programs in fields in which teacher production is barely up to or is below the level needed to meet demand (chemistry, physics, general science/physical science).

Those programs listed under the heading "possible allocations" are humanities programs in which the universities offer a substantial array of courses to serve the general education needs of their students. These courses form the core of the work needed for the preparation of teachers. The principal requirement for teacher education, beyond the work offered in a department offering a departmental major in these fields, is the special teaching methods course and the supervised teaching experience.

Except at the University of Oregon, which historically has been the primary source of Oregon teachers in these fields, teacher production is not large. It is doubtful that elimination of the teacher education program in any of these fields at any one of the three universities would cause enrollments in the academic departments to drop to the point that classes or sections would have to be dropped. These are, however, fields of some overproduction in Oregon as of 1970-71, and fields in which some reduction of teacher production could be accomplished without endangering the needed supply.
Board's Office Recommendation

1. The Board's Office recommended that the Board's Committee on Academic Affairs accept the production quotas in elementary teacher education for 1974-75 set forth on page 25, with the proviso that the figure for Eastern Oregon College is to be considered an estimate - rather than a quota which cannot be exceeded.

2. With respect to secondary teacher education, the Board's Office noted that it has identified for the Board a number of alternative courses of action, as follows:

   a. Take no overt action. Let the natural forces of supply and demand work their will to accomplish any needed adjustments in production.

   b. Place no quotas on admission to programs of secondary education, but instruct the institutions (1) to seek to improve their admissions and retention policies in secondary teacher education and thus to improve the quality of students admitted, (2) to ensure that all students seeking admission to the secondary program are realistically counseled regarding the qualifications necessary to success, and in particular as to the problems of securing employment in secondary teacher education. The statement "there is always room for the good teacher" does not provide the student with the information he needs to make an intelligent decision.


   d. Couple the institutional production quotas with subsidiary quotas in each teaching field, based on whatever projections of need can be made available by the State Department of Education.

   e. Couple the institutional production quotas with a reallocation of subject matter fields in which institutions are permitted to prepare teachers.

   f. Eliminate secondary teacher education entirely from one or more institutions.

Of the several alternatives, the Board's Office said it favored Item b above, although it recognized that the Board's Committee might wish to exercise a more direct control over production.

Committee Discussion

Dr. Fasold noted that State Department projections of enrollment for the public schools show a decline in elementary school enrollment to
1977-78 and a gradual increase over this period in secondary enrollment. He said he felt, in view of declining enrollment at the elementary level, the proposal of the Board's Office to establish a quota for the production of elementary teachers was sound.

Mr. Holmes spoke strongly in opposition to the establishment of quotas. He said certainly the Board and the institutions should be perfectly honest with young people about the job picture, but that to deny a young person the opportunity to get the education he desires because he may or may not become employed in that area of endeavor is contrary to the whole idea of higher education.

Mrs. Johnson urged that the problem of overproduction of teachers be considered within the context of overproduction of college graduates in many areas of study. For example, she said, the Board should be looking at the numbers of persons being admitted to programs in fields such as political science. However, she said, there might be more reason to consider a quota on teacher preparation because teaching was a professional field, with a professional component built into the programs involving a considerable expenditure both by the public schools and by the teacher preparation institutions. She said better counseling and admissions requirements should be coupled with production quotas.

Mr. Corey said he was personally opposed to a quota, but quotas were being imposed in a number of fields, among them medicine, law, and veterinary medicine. He said he felt he could go along with a flexible quota arrangement for elementary teachers, subject to adjustment by the Chancellor's Office to reflect a changing situation, but that he would prefer recommendation a or b in respect to the secondary level.

Mr. Westerdahl said the question of teacher production was initially raised as a by-product of fiscal problems of the State System. If allocation of funds is to be based on priorities, the Board, in establishing priorities, must take into account employment opportunities and state need for graduates of the respective programs as factors to be considered. If a quota is to be established on the production of elementary teachers, he said, it should be related back to the allocation of funds. He said he was troubled by the concept of quotas, but that he was not troubled by saying the state would provide only so many programs for the preparation of teachers because of rationing of limited resources.

Recommendation of the Committee

In respect to elementary education, the Committee recommended that the Board establish production quotas for elementary education, effective with the 1974-75 year, as set forth below, with the provision that the figure for Eastern Oregon College is to be considered an estimate and not a firm quota which cannot be exceeded, and with the further provision that the quota may be adjusted by the Chancellor's Office, up or down, by a figure not to exceed 10 percent.
The recommendation is made by a two to one vote of the Committee, Mrs. Johnson and Mr. Corey voting aye and Mr. Holmes opposed.

In respect to secondary education, the Committee recommended that the Board place no quotas on admission to programs of secondary education, but instruct the institutions (1) to seek to improve their admissions and retention policies in secondary teacher education and thus to improve the quality of students admitted, (2) to ensure that all students seeking admission to the secondary program are realistically counseled regarding the qualifications necessary to success, and in particular as to the problems of securing employment in secondary teacher education. The statement "there is always room for the good teacher" does not provide the student with the information he needs to make an intelligent decision.

The recommendation was made by a two to one vote of the Committee, Mr. Holmes and Mr. Corey voting aye, Mrs. Johnson opposed.

Board Discussion - Elementary Education

Mrs. Johnson moved that the recommendation of the Committee in respect to elementary education be approved. She pointed out that the recommendation, essentially, set production of elementary teachers for each of the three universities at 180. She noted that at least four times this number, 720 students, would be enrolled in each program at any one time.

Mr. Stewart said he heartily disagreed with telling people what they can learn or what school they can go to through imposition of quotas. He added that if there were too many teachers the problem should be resolved by closing down a school or department of education or through counseling.

Mr. Corey said he, too, was opposed to quotas, but in view of the early commitment required of the student in elementary education (as contrasted with law or medicine, which are graduate programs) and the large numbers of elementary graduates who have not found employment in their chosen field, he felt the flexible quota arrangement recommended by the Committee should be adopted. He said this action would alert students interested in elementary education to difficulties in finding employment in this field.
Mr. Joss asked if the cost of educating an elementary teacher was higher or lower than the cost of a liberal arts program. Dr. Romney replied that this varied, at some institutions it is a little higher, at others, the University of Oregon for example, it is lower.

Mr. Mosser observed that under new certification requirements the secondary certificate is good for grades five through twelve. He said the quota on elementary teacher production would thus be effective only for grades one to four, since secondary teachers could compete for jobs grades five to eight. Dr. Romney said the Board of Education is still in the process of interpreting the new regulations, which appear to provide that initially the elementary certificate is good from grades one through nine and the secondary for grades five through twelve, but that a choice must be made when the certificate is renewed. Dr. Romney said he did not feel that it is realistic to assume that superintendents would employ persons with secondary preparation to teach grades five to eight when there is a substantial surplus of persons available with full and complete elementary teacher preparation.

Mr. Mosser moved that the report be laid on the table, pointing out that new statistics, which would be available on enrollments in education as soon as fall term reports were in, would give the Board a better basis for action than figures presently available. Mr. Mosser said he preferred closing a school or division of education to the imposition of quotas, but that neither action might be necessary in view of possible reduction in fall enrollments in teacher education. Mr. Holmes said he was opposed to a quota system in principle, that as far as resources permit, qualified students should be permitted freely to choose their areas of study.

Mrs. Johnson said that all over the country there is an overproduction of teachers, that needs of education are changing in a fairly dramatic way, and boards of trustees everywhere are looking at priorities in the allotment of public money. Given these facts, she said, it was appropriate that the Board look realistically at guidance and counseling of those considering going into teacher education programs and, also, to consider setting quotas for the production of teachers.

Board Action

The Board voted to table consideration of the Committee's recommendations relating to the establishment of quotas for production of elementary teachers by a vote of four to three. Mrs. Johnson, Mr. Corey, and Mr. Snider were opposed.

Board Discussion - Secondary Teacher Education

Mrs. Johnson moved that the Board adopt the recommendation of the Committee in respect to secondary teacher education. Mr. Mosser said he felt there was no harm in this recommendation, but that he would urge that each of the schools examine the fields in which it has authorized teacher preparation programs and cease producing teachers in those fields of overproduction in which it does not
offer strong programs. He said he had not seen much evidence of institutions eliminating preparation programs in specific teacher education areas - although he noted that the University of Oregon had dropped its teacher education program in business education.

Board Action

The motion was approved as presented.

Confirmation of Institutional Degree Lists

In accordance with Board regulations, the following members represented the Board at the June 1972 Commencement exercises and mid-year Commencement exercises of the several institutions and acted for the Board in approving candidates for degrees and diplomas:

- Oregon State University
- University of Oregon
- University of Oregon (March 1972)
- University of Oregon (August 1972)
- University of Oregon Dental School
- University of Oregon Law School (August 1972)
- University of Oregon Medical School
- University of Oregon Nursing School
- Portland State University
- Portland State University (August 1972)
- Oregon College of Education
- Southern Oregon College
- Eastern Oregon College
- Eastern Oregon College (August 1972)
- Oregon Technical Institute

Philip A. Joss
George H. Layman
John W. Snider
John W. Snider
Edward G. Westerdahl II
George H. Corey
Loran L. Stewart
Loran L. Stewart
Edward G. Westerdahl II
John D. Mosser
George H. Layman
Elizabeth H. Johnson
George H. Corey
George H. Corey
John W. Snider

The signed copies of the degree lists are on file in the Board's Office.

Board Discussion and Action

The Board confirmed the action of these Board members in approving the candidates for degrees and diplomas, with the understanding that additional summer school commencements would be incorporated.

Note: University of Oregon and Portland State University August 1972 degree lists and the University of Oregon Law School list have been included above as requested by Board members.

Rededication of Physical Facilities

(Considered by the Building and Finance Committees, of August 28, 1972.)

Staff Report to the Committee

On December 14, 1971, based upon the recommendation of the Finance Committee, the Board authorized the use of student building fees during the current biennium for an annual payment of approximately $51,000 for the debt service allocable to that portion of John Straub
Hall at the University of Oregon available for general educational operations. The Board deferred for further consideration and decision policy matters relating to the rededication of auxiliary enterprise buildings for educational and general purposes. Presumably, such policies would also be applicable if there were to be a rededication of educational and general plant facilities for auxiliary enterprise purposes.

Subsection (3) of ORS 351.460 provides that "The board may credit the Higher Education Bond Sinking Fund with moneys received from either a sale or interfund transfer of land, buildings and facilities. Where such land, buildings or facilities are sold, or the use thereof is rededicated so that a transfer from one subfund to the other is appropriate, the moneys received shall be credited to the appropriate subfund."

To date, the Board has not defined the basis for determining the amounts of the accounting adjustments which should be made whenever facilities are rededicated for a different use. Inasmuch as the capital outlay recommendations reviewed and approved by the Board on July 24, 1972, contemplated several conversions of facilities to different uses than those for which they were originally constructed, it is desirable that appropriate policies be established for determining the amounts, if any, which should be transferred between the various bond sinking fund reserves as contemplated by the provisions of subsection (3) of ORS 351.460 quoted above. Specifically, the Board has already authorized the rededication of John Straub Hall at the University of Oregon from residence hall use to academic use. Although some alterations within the building are expected to be accomplished during the current biennium, in order to provide space for the automated laboratory for the Psychology Department, the major remodeling work proposed within Straub Hall has been assigned a high priority in the requests for 1973-1975.

At Oregon State University, it is proposed that Snell Hall be converted from student residence hall use to student union use during 1973-1975. Inasmuch as both housing and union activities are auxiliary enterprises, no transfer of state funds would be required, but some adjustment likely should be made in the appropriate sinking fund reserve to effect the exchange and relieve the consolidated pool for housing from the debt service assessment applicable to this building. Consistent with Board policy, debt service requirements applicable to student union facilities are financed from commingled student building fees.

Among the institutional requests for educational and general plant projects for 1975-1977, Southern Oregon College has included the proposed rededication and remodeling of Siskiyou Commons for use as the campus Instructional Resource Center (educational and general plant).
To determine the appropriate adjustments which might be made for buildings and facilities being rededicated, a number of alternative bases have been considered:

1. Capitalized value (book value normally based upon cost).
2. Capitalized value less assumed depreciation.
3. Current appraised value.
4. Current appraised value less estimated requirements for remodeling to convert the building to its highest and best use or to the use proposed following rededication.
5. An amount determined from the debt service requirements applicable to the building or facility if it were continued to be used for its originally intended purpose.
6. An amount not to exceed the lowest value determined under any of various alternatives such as those outlined above.
7. An amount equal to the average of the values determined under several alternatives, such as those outlined above.

Undoubtedly, there are many other alternatives.

Age is a factor, particularly when it is acknowledged that bond issues under either Article XI-F(1) or Article XI-G of the Oregon Constitution are limited to a period not to exceed thirty years. Furthermore, special circumstances relating to a proposal for the conversion of a particular building or facility from one type of use to another may influence the formula for determining dollar values.

Staff Recommendation (as modified at the Committee meeting):

It was recommended that the following guidelines be approved for establishing the amounts of adjustments to the appropriate bond sinking fund reserves upon the rededication of buildings and facilities from one type of use to another:

1. For buildings and facilities thirty years of age or older, no adjustment would be required upon rededication.

2. For buildings and facilities less than thirty years of age which are no longer needed for the original or modified purpose prior to the proposed rededication:
   a. If purchased for cash, the adjustment shall be equal to the capitalized value less depreciation calculated at the rate of two percent per year for the first ten years and at the rate of four percent per year thereafter; provided, however,
that for buildings and facilities other than student residence halls and food service units, for which the debt service requirements are consolidated on a System-wide basis, the amount of the adjustment shall not be less than the balance of any bonded indebtedness incurred for that building or facility.

b. If leased temporarily or sold on contract, the rental or annual payment shall be equal to the annual debt service requirement applicable to that building or facility for a period of time equal to the difference between the age of the building and thirty years. (For example, if the building is already twenty years old, the annual payment would be made for ten years.)

3. For other desired rededications of buildings and facilities which are less than thirty years old:

a. If purchased for cash, the adjustment shall be determined from the current market value of the building or facility.

b. If leased temporarily or sold on contract, the rental or annual payment shall be based upon current commercial rates for comparable space.

(Note: Exceptions to guidelines 1, 2 and 3 above may be necessary or desirable under those circumstances where gift and/or grant funds were used to finance the building or facility, or a portion thereof, subject to certain conditions or obligations, or where major rehabilitation or remodeling of the building or facility has been undertaken.)

4. Land rededication:

a. If the property was purchased prior to July 1, 1963, no adjustment would be required. (Prior to July 1, 1963, all land purchases were financed from General Fund appropriations or other state fund resources. By Board action on June 12, 1962, the land acquisition policies were revised, effective July 1, 1963, to require that land needed for future sites of dormitories or buildings and facilities of other self-sustaining auxiliary enterprises would be financed from auxiliary activity earnings, building fees, or from proceeds from bond issues secured by such revenues with the understanding that if the properties were rededicated for general institutional purposes, the restricted funds would be reimbursed for the value of the land.)

b. If the property was purchased after July 1, 1963, full reimbursement would be provided plus interest at the rate prevailing at the time of original purchase.
Committee Discussion and Recommendation

Mr. Mosser asked whether a lump-sum payment or a contract payment was contemplated in connection with the reference to the balance of bonded indebtedness.

Mr. Hunderup indicated a purchase would involve a lump-sum payment but the lease-option would have an annual increment.

Mr. Mosser said problems in meeting bonded indebtedness could result if the interest rates were higher at the time the bonds were issued than the rates that could be earned on the lump-sum deposit.

In response to a question concerning the lease-option, Mr. Hunderup explained that it was intended to provide an annual payment for the use of space so that at the end of the lease the title could be transferred. He indicated also that it might be desirable for a building to be used for another purpose for a few years without permanent rededication.

The Committee then considered modifications of the language in the proposed guidelines to provide further clarification. The suggested changes have been incorporated in the preceding staff recommendation.

The Building and Finance Committees recommended that the Board approve the recommendations as presented, with the understanding that the suggested modifications would be incorporated in the docket item presented to the Board, as referred to in the preceding paragraph.

Board Discussion and Action

The Board approved the recommendations as presented.

(Considered by Finance Committee, August 28, 1972.)

Staff Report to the Committee

Portland State University provides business services, registrar's services, and the Portland DCE Building physical plant operation and maintenance services to the Division of Continuing Education. The Division has reimbursed Portland State for the services provided.

During year 1970-71 the annual cost of Portland State University services to the Division of Continuing Education was $713,000. Changes in the Division of Continuing Education program resulting from the self-sustaining concept and shifts of enrollment to Portland State University have resulted in major adjustments downward in the services provided by Portland State University to the Division of Continuing Education in the joint cost arrangements. Portland State has reduced expenditures related to reduced service requirements. The Division of Continuing Education has eliminated services and shifted activities to its own staff. During year 1972-73 it is expected that the cost of Division of Continuing Education services provided by Portland State University will total $110,750.
Reductions in services have caused major adjustments in budgets at both Portland State University and the Division of Continuing Education. There now exists a $62,116 gap between budgeted resources and expenditure needs in the two organizations.

**Staff Recommendation**

It was proposed that $15,300 be provided to Portland State University from the Board's Unallocated Reserve and that the remainder of the deficiency be covered by further adjustments in the respective budgets. It is expected that the allocation will complete the adjustments necessary to convert the Division of Continuing Education to a self-sustaining basis and restructure Portland State University services. Budget requests for 1973-1975 have been constructed to accommodate the changes and to continue Division of Continuing Education operations on a self-sustaining basis.

**Committee Discussion and Recommendation**

The Finance Committee recommended that the Board approve the recommendations as presented.

**Board Discussion and Action**

The Board approved the transfer of $15,300 to Portland State University from the Board's Unallocated Reserve in order to ease the reduction in excess compensation which Portland State previously received from the Division of Continuing Education.

(Considered by Finance Committee, August 28, 1972.)

**Traffic and Parking Fees & Regulations**

**Staff Report to the Committee**

ORS 352.360 authorizes the Board to "enact such regulations as it shall deem convenient or necessary to provide for the policing, control and regulation of traffic and parking of vehicles on the property of any institution under the jurisdiction of the Board."

ORS 351.070 authorizes the Board to "prescribe and collect charges for services rendered to any person or entity."

Past practice has been for the Board annually to review and approve institutional regulations regarding vehicular traffic and parking. This procedure is subject to the provisions of the Administrative Procedures Act.

It is appropriate that there be Board control of the fees and other charges and that the Board should be directly involved in the setting of those rates and charges it deems to be particularly sensitive. Included in this list are parking fees and traffic regulations.
Staff Recommendation

Institutions have formulated proposed traffic and parking fees and regulations for the 1972-73 school year. They are included in this agenda for Committee consideration and favorable recommendation to the Board.

This appears to be an appropriate time to propose a revision in procedure which would reduce the workload of the Board while retaining full Board knowledge of and control over fees and charges proposed by the institutions. It was recommended that, at the proper time, the Board approve policies governing the institutions in the establishment of traffic and parking fees and regulations, but delegating to the institutions the responsibility for review and approval of proposed changes in fees and regulations consistent with the requirements of the Administrative Procedures Act and the policies of the Board.

The policy statement might declare:

The Board of Higher Education hereby authorizes the institutions of the Department of Higher Education to prescribe fees and regulations for vehicular traffic control and parking facilities in accord with the following criteria:

1. Traffic and parking regulations shall comply fully with appropriate municipal, county and state traffic laws and regulations.

2. Fees and charges are to be set at levels sufficient to support fully annual operating expenses of maintaining parking facilities.

3. In addition, fees and charges must be sufficient to meet obligations for bonded indebtedness incurred for the acquisition of property and/or the construction of parking facilities.

Debt service coverage and sinking fund reserves are to be maintained at the levels prescribed by the Board.

4. Fees, charges, and regulations, once adopted, shall be in effect for the full academic year. Interim emergency regulations may be established to meet special circumstances. These emergency regulations shall be reported to the first regularly scheduled Board meeting following their adoption.

5. Changes in fees and regulations (except emergency regulations) shall be reported to the Chancellor at least four months prior to the effective date of such change.

6. The Chancellor shall report planned changes in fees, charges and regulations to the Board at least three months prior to the effective date of such change.
If adopted, such policy statement would be effective for the 1973-74 academic year. Fees and regulations for 1972-73 require Board action in the traditional manner. To comply with the Administrative Procedures Act, notice has been sent to the Secretary of State that the Board will hold a public hearing on the regulations at its meeting on September 26, 1972.

Proposed changes for 1972-73 are outlined below. Copies of regulations were included as Attachment A to the report.

Eastern Oregon College

The institution proposed minor editorial changes in the regulations. Proposed fee revisions are:

<table>
<thead>
<tr>
<th></th>
<th>Present</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automobile parking</td>
<td>$3 for three terms</td>
<td>$5 for three terms</td>
</tr>
<tr>
<td></td>
<td>$1 for single term</td>
<td>$2 for single term</td>
</tr>
<tr>
<td>Motorcycle parking</td>
<td>$2 for three terms</td>
<td>$3 for three terms</td>
</tr>
<tr>
<td></td>
<td>No single term charge in 1971-72</td>
<td>$1 for single term</td>
</tr>
</tbody>
</table>

Oregon Technical Institute

No changes are proposed for 1972-73.

Southern Oregon College

The institution proposed minor editorial changes in the regulations. Proposed fee revisions are:

<table>
<thead>
<tr>
<th></th>
<th>Present</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty, staff and student commuter (for first registered vehicle)</td>
<td>$15 per year</td>
<td>$20 per year</td>
</tr>
<tr>
<td>Residence hall students (for first registered vehicle)</td>
<td>$10 per year</td>
<td>$11 per year</td>
</tr>
<tr>
<td>Motorcycle or scooter</td>
<td>$5 per year</td>
<td>$7 per year</td>
</tr>
<tr>
<td>Reserved parking</td>
<td>$27 per year</td>
<td>$45 per year</td>
</tr>
</tbody>
</table>

Oregon State University

The institution proposed two additional paragraphs which relate to disabled or abandoned vehicles. The new provisions are:

Section 6

J. Vehicles which have broken down on university property and which cannot be removed immediately by the owner or registrant must be reported at once to the campus security
office. Mechanical repairs to disabled private vehicles on university property, except for instructional purposes in a proper laboratory, are prohibited.

K. Abandoned vehicles left on university property more than 72 hours will be removed at the owner's expense. Unlicensed vehicles or vehicles without a valid Oregon State University permit parked on university lots will be considered to be abandoned and subject to removal.

The institution also proposed increases in parking fees. The proposed rates are those approved for 1971-72 but not implemented in keeping with the spirit of the 1971 price freeze. Present rates have been in effect since 1970.

<table>
<thead>
<tr>
<th></th>
<th>Present</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staff permits</td>
<td>$24 per academic yr.</td>
<td>$30 per academic yr.</td>
</tr>
<tr>
<td>Limited staff permits</td>
<td>$16 per academic yr.</td>
<td>$20 per academic yr.</td>
</tr>
<tr>
<td>Student permits</td>
<td>$17 per academic yr.</td>
<td>$18 per academic yr.</td>
</tr>
<tr>
<td>Residence hall permits</td>
<td>$16 per academic yr.</td>
<td>$18 per academic yr.</td>
</tr>
<tr>
<td>DCE permits</td>
<td>$2 per term</td>
<td>$3 per term</td>
</tr>
<tr>
<td>Summer term permits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Limited staff</td>
<td>$4</td>
<td>$5</td>
</tr>
<tr>
<td>Staff</td>
<td>$6</td>
<td>$7</td>
</tr>
</tbody>
</table>

University of Oregon

The institution proposed several substantive changes in parking regulations. These are reproduced below. It should be noted that, except for elimination of reserved parking fees for dormitory students, no changes were proposed in the present fee structure.

Substantive changes are:

Article II (7) - Time of enforcement to be changed from 7:00 A.M. to 9:00 P.M. to 7:00 A.M. to 5:00 P.M. (Monday through Friday). The following sentences to be put in italics for emphasis:

"At other times lots are open on a first-come, first-served basis, except for those spaces reserved or lots with special restrictions. The status of all lots and spaces, plus any special restrictions, are indicated by signs located by spaces or at the entrance to parking areas."

Article II (11) - Eliminated in its entirety.

Article II (12) - The speed is changed from 10 miles to 15 miles per hour, and the words inserted "unless otherwise posted." At the end of the paragraph, a sentence is added "within the campus boundaries and at crosswalks, the pedestrian is considered to have the right of way."
Article II (16) - Eliminated in its entirety.

Article IV (2) - In lieu of payment to the Business Office, there is the following alternative:

Faculty, staff, visitors, and students, may petition within 10 days of the ticket date to the Petitions Officer. In the case of a denied petition an additional 10 days to be allowed before final action is taken. Those petitioners denied may appeal before final action is taken. Those petitioners denied may appeal the decision within five days to the University Traffic Appeals Board.

To aid in enforcement the University is anticipating the purchase of a "boot" to be applied to vehicles of repeated violators of the regulations. It was also recommended that the "habitual violator" clause be eliminated from Article V, paragraph 1, therefore, the last half of the paragraph will be eliminated in its entirety.

Article V (1) now reads:

"In cases involving repeat violations or where warranted by the immediate circumstances, vehicles may be towed, booted, and impounded at the discretion of the officer, and thus subject to towing and storage fees in addition to penalties."

The heading "Schedule of Penalties" is changed to read "Schedule of Maximum Penalties." Number 10 of this section is changed to read as noted below, and number 11 "habitual violation" is deleted and the following number 11 substituted:

10 - Faculty/staff and students parking two cars (one with reduced rate permit, on campus simultaneously will be fined $5.00.

11 - Booted - payment of all parking and traffic charges outstanding.

The last section of the regulations entitled "Lots with Special Restrictions" is eliminated in its entirety.

The special dormitory sticker and reserved parking spaces for dormitory students have been eliminated. Therefore, on the schedule of charges, the dormitory charge of $45 for 12 months, and $6.00 for Summer Session is eliminated. Dormitory students pay the same parking fee as any other student, $15.00 for 12 months, and $7.50 for Summer Session. All other parking charges remain the same.
Portland State University

The institution proposed that traffic and parking regulations be reorganized for 1972-73. Major additions to existing regulations are summarized below:

Section 3 - Fees and Permits

A. Permits

6. Motorcycle permits allow motorcycles and power scooters to be parked at any time but only in areas designated as "cycle parking."

7. Alumni permits allow a vehicle to be parked from 2:00 P.M. to 7:00 A.M. in any space designated as a permit parking area, excepting spaces marked as reserved or otherwise restricted.

11. Park and Pay lots are available at established rates as posted. No permit is required in these lots.

12. Special Use permits are for use by departments or organizations who wish to reserve the use of a parking lot or section of the parking structure for special use. Special use permits are available only when space is not needed to accommodate permit users and with express permission of the Vice President for Business and Finance or his designee.

B. Fees

7. Alumni fees - $6 per year.

11. Park and Pay - 50¢ per day, 7:00 A.M. - 5:30 P.M., and 25¢ from 5:30 P.M. to 7:00 A.M.

12. Special Use Permits - $25 per day per event plus any necessary charges assessed for cleaning, repairs or maintenance.

Section 4 - Replacement Permits

A replacement permit may be obtained for a substitute vehicle when the original vehicle is sold or when the permit is lost or stolen. A charge of $2 per permit will be made for the replacement permit.

Section 9 - Violations and Penalties

C.2 - Students without a general deposit or whose general deposit has been exhausted may have their transcripts withheld or may have their registrations cancelled or may be denied graduation if any fines or fees under these regulations are owing and unpaid.
Section 10 - Abandoned Vehicles

Abandoned or junked motor vehicles remaining on University property more than 72 hours will be removed at the owner's expense. Unlicensed vehicles parked on University property will be considered as abandoned and subject to removal.

University of Oregon Medical School and University of Oregon Dental School

The institutions proposed an increase of one dollar per month for automobile parking. In addition, meter parking rates will be increased from ten to fifteen cents per hour.

Parking structure No. 2 will be opened in March or April of 1973. This will have a significant effect on operating costs, debt services and reserves to be supported from parking revenues. The analysis indicates that the proposed one dollar increase would be insufficient to meet operating and reserve requirements during 1972-73.

Therefore, an increase of three dollars per month is recommended. This would be sufficient to meet the parking obligation of the institution. Proposed monthly rates are outlined below:

<table>
<thead>
<tr>
<th></th>
<th>Current Rates</th>
<th>Institutional Proposal</th>
<th>Committee Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Covered parking</td>
<td>$8</td>
<td>$9</td>
<td>$10</td>
</tr>
<tr>
<td>Uncovered parking</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Large cars</td>
<td>$7</td>
<td>$8</td>
<td>$9</td>
</tr>
<tr>
<td>Small cars</td>
<td>$6</td>
<td>$7</td>
<td>$8</td>
</tr>
<tr>
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<td>Meter rates</td>
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<td>15¢ per hour</td>
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Detailed regulations and parking fees for each institution were attached to the Committee agenda and will be included as a supplement to the minutes of the meeting.

Committee Discussion and Recommendation

The Finance Committee recommended that the Board approve the proposed parking fees and regulations for 1972-73.

Board Discussion and Action

President Layman said that under the State Administrative Procedure Act presentations in connection with traffic and parking fees and regulations were in order. Since no one requested an opportunity to be heard, the Board then considered the recommendation.

The Board approved the recommendation as presented.
$1,110,000
State of Oregon, State
Board of Higher Education
Building Bonds, Series 1972 C

Staff Report to the Board

An Animal Disease Research Isolation Facility at Oregon State University was authorized by Chapter 709, Oregon Laws 1971, within an expenditure limitation of $1,110,000. To finance the auxiliary enterprise project, it is necessary to sell Article XI-F(1) State of Oregon, State Board of Higher Education Building Bonds, Series 1972 C, with a total par value of $1,110,000, on October 25, 1972.

Statutory provision for the self-liquidation of the bonds was contained within Chapter 688, Oregon Laws 1971, which stipulates that an amount not to exceed $100,000 shall be allocated annually from the Oregon Racing Commission Account into a special Higher Education Isolation Facility Bond Sinking Fund to provide for the payment of principal and interest on the bonds issued for the project.

The bonds will be sold at not less than par value thereof.

Staff Recommendation

It was proposed that the Board adopt the following bond resolution by roll call vote and the Board's staff be authorized to advertise the bonds for sale, receive and tabulate bids, and make appropriate recommendation to the Board for the sale of bonds on October 25, 1972.
WHEREAS, THE STATE BOARD OF HIGHER EDUCATION deems it necessary, pursuant to law, including Article XI-F(1) of the Constitution of the State of Oregon, Chapters 688 and 709, Oregon Laws 1971, and applicable provisions of ORS Chapter 351, to sell general obligation STATE BOARD OF HIGHER EDUCATION BUILDING BONDS, SERIES 1972 C, of the State of Oregon, in the principal amount of $1,110,000 to provide funds to plan, construct, alter, repair, furnish and equip buildings and other structures for higher education, to purchase and improve sites therefor, and for payment of costs incident to the sale and issuance of the bonds; and

WHEREAS, THE BOARD, as required by ORS 351.160 has determined conservatively that said buildings and other structures will be wholly self-liquidating and self-supporting from revenues to accrue from the operation thereof and from gifts, grants, or building fees, and from unobligated revenues of higher education buildings or projects of like character; and

WHEREAS, THE BOARD is authorized and directed by ORS 351.170 to establish such rates, charges, and fees for use of such buildings, structures or projects, including revenue-producing buildings and structures already constructed, as, in the judgment of the Board, shall provide the required revenues to make the new buildings, structures or projects self-liquidating and self-supporting, and as shall provide the funds with which to amortize the principal of and pay the interest on bonds issued to finance such buildings, structures or projects; now, therefore,

BE IT RESOLVED BY THE STATE BOARD OF HIGHER EDUCATION OF THE STATE OF OREGON, that, with the approval of the State Treasurer of the State of Oregon, ONE MILLION ONE HUNDRED TEN THOUSAND DOLLARS ($1,110,000) par value of bonds, authorized by law, including Article XI-F(1) of the Constitution of the State of Oregon, Chapters 688 and 709, Oregon Laws 1971, and applicable provisions of ORS Chapter 351, be issued and sold; and

BE IT FURTHER RESOLVED that the said bonds totaling ONE MILLION ONE HUNDRED TEN THOUSAND DOLLARS ($1,110,000) par value be issued and the proceeds from the sale of these STATE OF OREGON, STATE BOARD OF HIGHER EDUCATION BUILDING BONDS, SERIES 1972 C be used to plan, construct, alter, repair, furnish and equip buildings and other structures for higher education, to purchase and improve sites therefor, and for payment of costs incident to the sale and issuance of the bonds, as provided by law, including Article XI-F(1) of the Constitution of the State of Oregon, Chapters 688 and 709, Oregon Laws 1971, and applicable provisions of ORS Chapter 351; and

BE IT FURTHER RESOLVED that the principal of and the interest on all of the bonds issued pursuant to this resolution be paid on the due dates thereof at the Fiscal Agency of the State of Oregon, in the City and State of New York, and that the said bonds be designated STATE OF OREGON, STATE BOARD OF HIGHER EDUCATION BUILDING BONDS, SERIES 1972 C, and be numbered consecutively; and
BE IT FURTHER RESOLVED that the said bonds be dated October 15, 1972, and be issued in denominations of $5,000 each, to mature upon the dates and in the principal installments hereinafter in this resolution set forth, subject to redemption in regular numerical order at par value and accrued interest on any interest-paying day or days on and after April 15, 1982, from the moneys and revenues indicated by law, including Article XI-F(1) of the Constitution of the State of Oregon, Chapters 688 and 709, Oregon Laws 1971, and applicable provisions of ORS Chapter 351, or through refunding; and

<table>
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<tr>
<td>April 15, 1975</td>
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<td>$35,000</td>
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BE IT FURTHER RESOLVED that the maturity dates and principal installments of said bonds be as follows:

BE IT FURTHER RESOLVED that the State Board of Higher Education furnish to the original purchaser of said bonds, without cost to him, the written opinion of accredited bond attorneys certifying to the validity and legality of the said bonds; and

BE IT FURTHER RESOLVED that the said bonds be the direct general obligations of the State of Oregon, and that, except as to variations of interest rates and maturities, they be of uniform tenor and be in substantially the following form, prepared by the Attorney General of the State of Oregon:

Number

| $5,000 |

UNITED STATES OF AMERICA
STATE OF OREGON
STATE BOARD OF HIGHER EDUCATION
BUILDING BOND
SERIES 1972 C

KNOW ALL MEN BY THESE PRESENTS, that the STATE OF OREGON acknowledges itself to owe and for value received hereby promises to pay to bearer the principal sum of $5,000, payable semiannually on the fifteenth day of April and the fifteenth day of October in each year, as evidenced by, and upon the presentation and surrender of, the interest coupons hereto annexed as they severally become due. Both the principal of and the interest on this bond are payable at the Fiscal Agency
of the State of Oregon, in the City and State of New York, in any coin or currency which, at the time of payment, is legal tender for the payment of public and private debts within the United States of America.

The bonds of the issue of which this bond forms a part, maturing on and after April 15, 1983, may be redeemed at the option of the State of Oregon, on and after April 15, 1982, at par and accrued interest, on any interest-paying day or days in regular numerical order or in the entire amount of the issue outstanding at call date, upon notice given by the Treasurer of the State of Oregon at least thirty (30) days prior to the redemption date specified therein, by publication thereof in one issue of a newspaper or financial journal of general circulation printed and published within the City and State of New York, and one issue of a newspaper of general circulation printed and published within the City of Salem, Oregon. From the date of redemption designated in any such notice, interest on the bonds so called for redemption shall cease.

This bond is issued by the State of Oregon in conformance to its Constitution and under and by virtue of and in all respects in full and strict compliance with its laws, and in particular Article XI-F(1) of the Oregon Constitution, Chapters 688 and 709, Oregon Laws 1971, and applicable provisions of ORS Chapter 351, for the purpose of financing the cost to plan, construct, alter, repair, furnish, and equip buildings and other structures for higher education, to purchase and improve sites therefor, and for payment of costs incident to the sale and issuance of the bonds.

The faith and credit of the State of Oregon hereby are irrevocably pledged to the punctual payment of the interest on and the principal of this bond as the same become due and payable respectively.

IN TESTIMONY WHEREOF, the STATE OF OREGON has caused this bond to be signed by the Governor and by the Secretary of State with their facsimile signatures, and by the State Treasurer, and sealed with the seal of the State of Oregon, and has caused the annexed interest coupons to be executed with the facsimile signatures of its said officers, all as of the fifteenth day of October, 1972.

Governor

(SEAL)

Secretary of State

Treasurer
FORM OF COUPON

(For coupons maturing on April 15, 1973, up to and including April 15, 1982)

$_____

No._______ On the fifteenth day of April, 1973, THE STATE OF OREGON will pay the bearer DOLLARS

at the Fiscal Agency of the State of Oregon, in the City and State of New York, in any coin or currency which, at the time of payment, is legal tender for the payment of public and private debts within the United States of America, for six months' interest then due on State of Oregon, State Board of Higher Education Building Bond, Series 1972 C, No._______.

(facsimile)  (facsimile)  (facsimile)
State Treasurer   Secretary of State   Governor

FORM OF COUPON

(For coupons maturing After April 15, 1982)

$_____

No._______ On the fifteenth day of October, 1982, unless the bond hereinafter designated shall have been called for previous redemption and due provision made for the payment thereof, THE STATE OF OREGON will pay the bearer DOLLARS

at the Fiscal Agency of the State of Oregon, in the City and State of New York, in any coin or currency which, at the time of payment, is legal tender for the payment of public and private debts within the United States of America, for six months' interest then due on State of Oregon, State Board of Higher Education Building Bond, Series 1972 C No._______.

(facsimile)  (facsimile)  (facsimile)
State Treasurer   Secretary of State   Governor

The foregoing bond and coupon forms hereby are approved as to legal form this __________ day of __________, 1972.

LEE JOHNSON, Attorney General of The State of Oregon
BE IT FURTHER RESOLVED that, as provided by ORS 351.430, the Secretary of the State Board of Higher Education be and he hereby is authorized to advertise the said STATE OF OREGON, STATE BOARD OF HIGHER EDUCATION BUILDING BONDS, SERIES 1972 C, for public sale thereof on or about October 25, 1972, at a price of not less than par value thereof, and the accrued interest thereon, and the notice of sale to specify that the Board reserves the right to reject any or all bids for the bonds; and

BE IT FURTHER RESOLVED that the Secretary and Vice Chancellor for Administration of the State Board of Higher Education be authorized to effect the necessary arrangements to deliver the bonds and to receive payment therefor.

Board Discussion and Action

Mr. Hunderup reported that the Emergency Board had authorized the Board to proceed with the project for the Animal Disease Research Isolation Facility within the expenditure limitation of $1,110,000.

Upon motion by Mr. Joss, the Board approved the recommendations as presented.

Upon motion by Mr. Corey, the Board duly adopted the resolution as read with the following voting in favor of adoption: Directors Corey, Holmes, Johnson, Joss, Mosser, Snider, Stewart, and Layman.

Those voting no: None.

The President thereupon declared the resolution duly adopted by a unanimous vote of those present.
There was transmitted separately to the Board a tentative report on the proposed operation of the computer network and a proposed budget for the operation of the computer facilities of the Department of Higher Education in 1973-1975. The report, entitled Computer Services in the Department of Higher Education, is appended to these minutes as Supplement B and the proposed budget is filed as a part of the Board's biennial budget request for the 1973-1975 biennium. The report and budget have been presented to and discussed with the Computer Policy Council. However, the Council was not asked for formal approval of the report and budget.

Board Discussion

Mr. Mosser opened the discussion by summarizing what he considered to be the policy questions to be decided. These included the following:

1. Should a computer network be established which would consist of large computer facilities with remote entry and printout at the various institutions as opposed to having two or three big computer installations each serving satellite installations?

2. If a network is established where should the central facility be located?

3. Should the central network facility be established under the Chancellor's Office or be attached to one of the institutions?

Mr. Mosser said that in addition there are the questions of the type of equipment to be ordered and the method of financing the acquisition.

Mr. Holmer then summarized the report which had been distributed and called attention to significant aspects of the report and budget. The introductory material from that report appears below:

Staff Report, Continued

On August 24, a preliminary budget for a computing services network budget was completed for presentation at the Finance Committee meeting on August 28. Funds for continuation of the status quo in 1973-1975 are included in the budget request submitted to the Executive Department. It is the purpose of this supplemental budget recommendation to propose the additional funds required to extend the availability of the major computing resources of the Department to the students and faculty of all institutions of the Department of Higher Education.
The network budget submitted on August 24 called for a net additional state appropriation of $928,018 for biennium 1973-1975. The budget recommended at this time has been reduced by $444,186, thus requiring a net additional appropriation of $483,832 for network operations. The reduction is the net result of a number of decisions detailed in the report, Computer Services in the Department of Higher Education (Supplement B).

Following is a condensed summary of the proposed budget for biennium 1973-1975:

**Proposed Computer Network Budget - Condensed Summary**

*Details are shown in a proposed separate section of the Board's 1973-1975 Budget Requests*

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<td>Total Budget</td>
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<td>Status Quo Budget (1973-1975)</td>
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<td>Budget Increase Requested (1973-1975)</td>
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<td>$483,832</td>
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</table>

On the following page is shown a proposed equipment installation schedule.
It is important to stress that the documents referred to have been reviewed with the Computer Policy Council at a meeting on September 12, but that the documents, including the budget, do not reflect the views of all Council members. The documents do represent the recommendations of the Office of Administration.

There are two major departures from the August 24 budget:

1. More realistic scheduling of the additions of equipment and personnel; and

2. The proposal that Oregon State University operate the major portions of the network under a formal understanding with the Computer Policy Council.

These are believed to eliminate the major elements of duplication in the August 24 budget and to provide a sound and effective basis for the detailed implementation planning which must now ensue. It is believed also that the budget as proposed will provide resources adequate to meet the objectives of the network plan.

Among the institutions, several questions have been raised regarding the operation of the proposed network. For example, the University of Oregon wishes assurance that the quality and quantity of services provided under the network will not suffer degradation and that charges for service will remain comparable to present rates. It is expected that the formal understanding between Oregon State University and the Computer Policy Council will spell out the definitions of quantity and quality that will provide the basis for evaluation of the effectiveness of the network management in fulfilling the assumptions. Increases in the volume of equipment use should help assure the comparability of future rates of charge, within the limits of the forces of general inflation.

The hardware components of the budget have been defined in terms of existing equipment to be retained, equipment to be released and new equipment to be acquired (see p. 819 of the Computer Services report). The two major pieces of equipment to be acquired for the central facility have been identified by order of magnitude, leaving to more detailed planning and to normal procurement processes the specific items to be leased. The University of Oregon has presented arguments for location of the larger IBM resource at Eugene, including the earlier release of its IBM 360/50, at a higher trade-in value. As an alternative, the University of Oregon proposes the retention of its IBM 360/50 at Eugene, even if the larger network IBM machine is located at Corvallis. The academic advantage to the University of Oregon in having an on-site IBM machine as an attraction to students and faculty has been stressed. Nonetheless, the budget recommends otherwise, for three reasons:

1. Reduction in net operating costs.

2. Improved effectiveness resulting from centralized management of the network.
3. The fact that the IBM 360/50 would be superfluous to the actual needs of the Department.

It is to be regretted that planning and budgeting for computer management inevitably involves decisions that require a series of almost endlessly arguable technical issues and alternatives. Technical issues must be resolved—presumably after careful, but not endless, consideration and recommendation by technically qualified personnel. To expect unanimity among the technicians is futile. It thus becomes necessary to rely for such decisions on a structure, described in the Computer Services report, and a process that assures broad discussion of the issues and the necessity to expose them to general review.

Assuming Board concurrence in the objectives and the essential elements of the computer services plan incorporated in the budget presented herewith, it will then be necessary to proceed with an intensive planning process that will provide answers to the further questions that have been and will be raised concerning the operation of the network. As observed to the Computer Policy Council in a memorandum one month ago, "the tentative plans on which this budget is based are believed to be soundly conceived but they must be subject to revision and refinement in the light of staff advice." It was also noted that the budget is offered "based on particular answers to questions of equipment configurations, with a clear understanding that implementation should be subject to further study and evaluation by the Computer Policy Council and the staff it employs." Those observations still hold and emphasize the continuing necessity for revision and refinement of the plan from now until the days of implementation—and beyond.

** * * * * * * * * * * *

In the report on Computer Services (pp. 818-21), there is a discussion of certain software elements of the plan. Two items—LOLITA and Dental School records systems—have been included in requested program improvement budgets already submitted. The third proposal, requiring a substantial additional investment, is the purchase of software for a student information system. The process of implementation is expected to require three years and the expenditure in 1973-1975 of approximately $285,000. Approval for this item has not been sought previously since the full merit of the proposed system cannot be realized except with the implementation of the computer network.

Based on the preliminary planning and specifications efforts, notably at Portland State University and the University of Oregon, and the pending implementation of the admissions module of the system at the University of Oregon, there is no hesitancy in urging that this project go forward.
Staff Recommendation

It was recommended that the Board authorize the submission to the Executive Department of two supplemental requests for inclusion in the 1973-1975 budget:

1. $482,832 for implementation of the computer network services plan; and

2. $285,000 for the implementation in 1973-1975 of a major portion of the student information system described in the report on Computer Services.

Board Discussion, Continued

The Board discussed staffing and cost implications and the following statements were made:

1. The staff position - Data Systems Coordinator - in the Chancellor's Office would be retained in the central office during the 1973-1975 biennium to provide guidance in the area of data systems management.

2. The amount of approximately $400,000 indicated in the budget report for the student information system is a one-time cost to the company that would be furnishing the software and does not include the operating cost, or recurring costs for operating the system.

3. The operating costs of the proposed student information system would be less than the present operating costs of the student systems today on a statewide basis, and this would be a continuing lesser operating cost to maintain than the present system.

4. The plan for the acquisition of the hardware calls for phased implementation of the program and this will affect the cost in each biennium following 1973-1975.

5. The equipment to be acquired will probably be a used machine leased for approximately eight years with provision for upgrading through the lessor. This type of lease arrangement would be more costly in the long run but would minimize costs now. Flexibility to provide the possibility of newer equipment would probably require approximately $500,000 each biennium.

Mr. Mosser said he would favor looking at programs for advanced hardware at the outset rather than equipment which might cost less now but result in greater expenditure later.
Mr. Michael Jennings, Data Systems Coordinator, said it would be desirable for the state to be able to be in a competitive position for equipment and that part of the requirement in a competitive bid would be the conversion of the programs in operation to whatever new, improved equipment is likely to be needed in the future.

In response to a question concerning the capability of Oregon State University to meet the computer needs of the State System under the proposed computer network, President MacVicar indicated that it would be feasible to achieve that goal in view of the substantially increased capability which would be available when the various proposed elements were in operation.

President Layman then invited President Clark to present a statement with respect to the University of Oregon position concerning the computer network. President Clark stated that Dr. Burton J. Moyer, Dean of the College of Liberal Arts, and Dr. Virgil Boekelheide, Professor and Head of Chemistry, would also present statements concerning the computer network. These three statements are included as Supplement C to these minutes.

President Clark introduced his remarks by saying that in his opinion the principle of institutional management of facilities was a sound one and that Oregon State University would manage the computer facilities as well as anybody possibly could. However, he said that the pressure of time and the differences among the institutions with respect to the computer network have prevented a resolution of this very technical problem before it reached the Board. He said this is probably the most important issue that the University of Oregon has discussed with the Board in the past several years. President Clark then read from his prepared report which emphasized the University's concern with the proposed network and the planning which has been done with respect to the acquisition, use and distribution of computer equipment, and the cost and operational analyses. The report indicated that University of Oregon faculty members who had sought and obtained the facilities and supporting grants felt that it was unethical and unwise to remove or trade in existing University of Oregon computers for use in the proposed State System computer center at Oregon State University at the time indicated in the computer plan. The report also questioned the impact on faculty and granting agencies if the IBM 360-50 and PDP-10 computers are not retained on the University of Oregon campus, since the computers were provided by the National Science Foundation as part of the Science Improvement Grant to the University of Oregon. President Clark suggested that the National Science Foundation be approached regarding a study of the state's computer needs.

Dr. Moyer discussed the operation of computer network systems and the uses and functions of computers in education of computer science specialists, classroom instruction in computer use for large numbers of students, in research projects, in library resources use, and other academic areas. Dr. Boekelheide presented the history of the acquisition of the computers and the negative faculty reaction to the possible loss of the present computers. He also urged applying to the National Science Foundation for a study of the state computer network.
At the conclusion of the University of Oregon presentation, Mrs. Johnson stated that the strong language in the presentations seemed to indicate that a computer network would not work even though the statement was made that the institution favored the concept of a network.

President Clark responded that the language was strong in an effort to urge the Board to obtain further analysis from an objective source in order to be sure that faculty members with strong and conflicting feelings about the network are adequately protected.

With respect to the computers owned by the University of Oregon, it was indicated that the grant did not restrict disposition of the equipment. Oregon State University also owns a computer which was provided through a substantial grant.

Dean Moyer said that computer networks can work well if the local centers in the network have sufficiently intelligent terminals. He said the present proposal, although not fully developed as yet, does not appear to have the capacity to handle the needs of the University of Oregon with the facility and speed which would be possible with major facilities distributed in the major centers and interconnected for shared capacity. Therefore, he said it seemed more sensible to leave a major computer facility at each of the three major institutional centers, and have them interconnected so that the capacity can be shared and also to serve remote job entry terminals at other institutions which are without computers.

Mr. Mosser said that the computer needs of the State System have been under study for several years and because the decision has been postponed the legislature has not provided adequate appropriations to fund computing for the State System, to the detriment of higher education and the State of Oregon. He said higher education should be the leader in establishing a network and furnishing the computer intelligence that the state needs. Mr. Mosser said it was his understanding of the proposal that the IBM 360-50 would be retained on the University of Oregon campus until 1975 and then removed only if the new central installation had demonstrated that it could meet the needs of the University. President Clark said that this understanding was not written into the proposal.

Following the noon recess, Mr. Layman asked President Wolfe to report his comments on the computer network proposal.

President Wolfe indicated that Vice President Robert Low and Dr. Craig Magwire, Director of the University Computing Center at Portland State University, would also make presentations for Portland State University with respect to the proposed computer network.

President Wolfe said that he has gone on record in favor of the computer network and that neither he nor his colleagues have changed that position. He said the Chancellor and his staff were to be commended for the planning which has been done, the steadfastness of their pursuit, and the study of a very complex and difficult problem.
President Wolfe stated, however, that consideration should be given to what may be the impact of the plan on the recruitment and retention of the faculty members by institutions other than Oregon State University because a new faculty member is much more likely to be attracted to an institution which has direct access to computer services in that institution than to one which only has access to computer services at another institution. He said that another critical issue is whether all State System institutions can receive equal and impartial service from Oregon State University and that even if in fact they do receive equitable service, it may not be fully accepted as such. He said there is a psychological barrier to viewing service through another institution as equitable. He said that, in his opinion, to form a unified, service-oriented staff by combining existing staff under the existing management of one institution will take longer and will result in many more difficulties than selecting a network director and letting him select his staff from existing personnel.

President Wolfe said that it was not feasible from an economic standpoint to have multiple centers because of the cost of duplicating staff. He urged the Chancellor and the Board to move toward a unified, independently operated computer network system. The statement presented by President Wolfe is attached to these minutes as Supplement D.

Vice President Low said that his experience at another institution had shown that computers at a location remote from the campus can be used as effectively as an installation on the campus itself.

Dr. Magwire said that Portland State University is seriously in need of adequate computer services, although studies of needs and requests for funds have been made by Portland State University; and that Portland State University needs should be cared for as soon as possible in order for its graduates to compete favorably for employment opportunities. He said that a network adequately planned, staffed, equipped and funded, managed by a staff equally responsible and responsive to the students, faculty and administration of all nine institutions offers a lot more hope and possibility than further delay offers for those institutions which are presently woefully lacking in computer services.

President Rempel said the computer needs of the colleges continue to be not only great but desperate. He said the major concern of the colleges is that there will be further deferrals and another biennium will pass without meeting these computer needs. In response to a question as to the computer services used by Eastern Oregon College, President Rempel said that there is one terminal connected to the computer at Oregon State University, and that administrative needs for computer service are met by using a computer at Blue Mountain Community College in Pendleton.

Mrs. Johnson asked what computer services were available in the state through the community colleges. Mr. Holmer responded that
the State Department of Education has been in the process of developing a plan for a network to serve school districts and community colleges. This plan will be submitted to the 1973 Legislature.

Mr. Joss said that giving Oregon State University the management responsibility for the computer network would make them vulnerable to a great deal of criticism and suggested that it might be better for the Board to be responsible for the management.

Mr. Holmer said that the Computer Policy Council would make the policy decisions which would be administered by Oregon State University. He said one of the reasons for selecting Oregon State University was their previous experience in operating a regional network.

In discussing the possibility of a central staff and the question of duplication of staff, he indicated that even with a central facility it would be necessary to have local computing staffs at the institutions to assure proper planning and utilization of the computer resources. He said also that if the computer network is established at one institution, that institution can take care of its local computing staff needs with the same staff that is used for the central computer network.

President MacVicar cautioned that Oregon State University should not be expected to bear a disproportionate share of the cost of the computer network, simply because the central facility is located on that campus.

Mr. Mosser said there are advantages to having the responsibility for the computer network located under one of the institutions. In the first place, under the proposed plan the network would have a solid institutional base with a going staff. Furthermore, if the system should not work satisfactorily, the Chancellor's staff would then be in a neutral position to resolve the difficulties.

Mrs. Johnson questioned the validity of the cost estimates which appear to be based on verbal conversations rather than written commitments. Mr. Jennings said that these conversations involved a wide spectrum of people in the field of computers and communications and that his office checked with as many sources as possible to substantiate the data presented.

Board Action

Mr. Mosser moved that the Board authorize establishment of the computer network with the major new facility to be located at Corvallis, with the overall supervision under the Vice Chancellor for Administration, but with the actual operation contracted to Oregon State University.
It was understood that further review of the network budget and equipment acquisition schedule will be undertaken by the Finance Committee at the same time they are being reviewed in the Executive Department for the Governor's budget purposes. It was further understood in the motion that after the network has been implemented, as it appears that the network is furnishing adequate service to any school that has a computer now, the question of removal of that computer will be reviewed by the Board; and any objections can be expressed at that time by the institution that is affected before the equipment is removed.

Mr. Mosser said that the intent is that when a network is established, and it has been demonstrated that it can furnish what is judged to be adequate service to the institutions without depriving them of any essential capability they now have, then consideration will be given to disposal of equipment not needed by an institution.

In response to a question from President Clark as to whether the plan and budget actually would permit later review, Mr. Mosser said that there were several questions involved in the further review of the budget. One question relates to whether the computer should be leased or purchased and the size and capability of the equipment to be purchased or leased. In addition, he said he did not believe the budget should indicate that any equipment has to be removed. However, he said the Executive Department has to know what the plan is and that the funds would not be spent for some other purpose if the removal of the equipment is delayed.

Mr. Snider indicated that he would vote against the motion because he did not think that the Board had ever taken away something of value from one institution so that it could be shared with others. He said he thought the Board should probably permit the University of Oregon to keep the computer or be paid for it if it is removed.

Mr. Mosser said that this question is one that should and could be resolved in the development of the budget because if new equipment is leased for the network it will represent a cost increase to the University of Oregon over what it now has. Mr. Mosser pointed out that the State System now pools certain resources, such as student tuition fees, for the use of all the institutions.

Mr. Corey said computer facilities had been studied extensively but not necessarily by the present Board. He said he would vote against the motion because it was too important a decision to be reached at the present meeting although the decision might be the same following further study through the regular committee process.

Mr. Layman reported that it had been necessary for Mr. Stewart to leave early but that he had wanted it stated for the record that he was in favor of the staff report but only on the understanding that there would be no reduction in capacity at any one institution.
Mr. Joss said his affirmative vote would be on the basis that the motion would not prevent further determination of what is fair and equitable. He said that no one institution should have an advantage or be placed at a disadvantage because the computer center is located on a particular campus.

Mrs. Johnson said that it was necessary to move ahead on this program and that she could vote for the motion with the further review that Mr. Mosser's motion implied because it would permit the establishment of a fair policy for all of the institutions, including assessment of operating costs.

Mr. Joss said Mr. Mosser's motion made it explicit that there would be a review by the Board before there was any disposition of the IBM 360-50 or other equipment and that this was the basis on which he was voting for the motion.

The Board then voted to approve Mr. Mosser's motion by a vote of four to two, with Mr. Corey and Mr. Snider voting against the motion.

(Considered by Public Services Committee, August 28, 1972.)

Staff Report

The Public Services Activities Committee met in regular session at 11:00 A.M., August 28, in the main lobby of Science II, Portland State University, to review a report and hear a presentation on the Federal Cooperative Extension Service. The written report prepared for the Committee, titled Oregon State University Cooperative Extension Service, A Report from OSU, dated August 28, 1972, is presented to the Board for designation as an integral part of the Board minutes.

Committee Discussion

President MacVicar introduced to the Committee Dr. Lee R. Kolmer, Director of the Extension Service, and three citizens of Oregon, Mrs. Lorraine Whittaker of Pilot Rock, a volunteer extension leader for 25 years; Mr. John Welbes, Executive Vice President of the Oregon Wheat Growers League; and Mr. Marion Weatherford, whose family has been associated with the experiment station and extension program since it was established in Oregon.

Dr. Kolmer described for the Committee the objectives, programs, kinds of audiences, and activities of the extension service, illustrating his presentation with slides.

Mr. Welbes, who appeared as a representative of the Oregon Wheat Growers League, presented a statement (1) opposing any move to transfer the extension service to the State Department of Agriculture without careful study of the financial and educational implications of such a move; (2) supporting development of extension services, as appropriate, in urban areas; and (3) opposing institution of fees for extension services. Copies of Mr. Welbes' statement are on file in the Board's Office.
Mrs. Whittaker said the extension service has 16,000 volunteer leaders, like herself, who carry educational programs throughout the communities in which they live, but they cannot do this without the direction and training of specialists. She urged restoration of two family living specialists cut from the staff two years ago. In response to questions from the Committee, Mrs. Whittaker objected strongly to the proposal to charge fees for extension services, saying most of those receiving the services are taxpayers, and thus would be paying for the service twice; and that many, among them those who need the services most, would not participate if a fee were charged. She said she did not feel the extension programs duplicated programs of the community colleges, noting that the extension programs, through the use of volunteer leaders, provide programs designed to meet the individual needs of participants without charge. The community college courses, offered on a fee basis with a paid instructor, cannot provide this individual attention and flexibility of programming, and thus reach a different audience, she said.

Mrs. Johnson suggested that the way in which budgets are presented, with a base budget to which are added requests for program improvements and restoration of standards, it is difficult to know whether there are not some programs in the base level which are less urgent than others requested as program improvement.

Mr. Weatherford said it was true that some of the first projects started by the extension service are still going on, but, he said they are not working on the same problems; for example, the project on wheat diseases has pretty much eliminated losses due to smut, once a serious problem in Oregon. The project is now concerned with different, and more sophisticated, diseases. He said agriculture, forestry, the mines, and the sea are basic wealth-producing industries, providing funds which finance social and educational programs of society. He emphasized the importance of research and extension in the development of American agriculture, and urged that the programs be kept sound and well-funded.

President MacVicar asked if the Committee could schedule the federal cooperative extension service for another hearing when more time would be available. He said Mrs. Johnson's question concerning on-going programs was a vital one, that if the extension service is not changing with the changing demands of agriculture, forestry, the sea and its importance to man, homemaking, community development, and youth programs, it is not doing the job it should do. A longer hearing, he said, would give Oregon State University time to fill in some of the details of how "we are different even if we look the same."

Board Discussion and Action

The Board accepted the report as presented.
At the request of the Board, the Board's Committee on Public Service Activities at its meeting on August 28, 1972, reviewed a capital construction proposal for color originating equipment contained in the 1973-1975 priorities list.

Staff Report to the Committee

Installation of the requested color television originating equipment will provide for production and broadcast of full-color television programs by OEPBS through utilization of color-capacity cameras in the Portland and Corvallis studies and high-band color videotape recorders in the Portland studio. Access to the recorders from Corvallis is provided by microwave relay connection. The estimated cost of the equipment is $700,000, of which $100,000 would be requested from state funds, with $600,000 estimated to be provided from gifts and federal grants. The proposed items of equipment and sources of funding are shown on the following page.

Color now can be broadcast by the Portland and Corvallis transmitters if originated elsewhere and fed to the transmitters. Also, conversion of two black-and-white videotape recorders to low-scan color capacity allows for taping in the Portland studio of certain programs originated elsewhere. During fiscal year 1972, color film chains will be installed in both Portland and Corvallis studios, which will provide for origination only by color film (and slides), financed in part by federal funds for that purpose. No color television camera capacity or complementary recording and other equipment, as requested in this proposal, however, is currently available in either studio.

Color television is now the standard for both commercial and non-commercial broadcasting throughout the nation, and in Oregon for commercial stations. More than 50 percent of the homes in Oregon are equipped to view color television, and current sales of receivers show color equipment to comprise an increasing share of the total sets sold.

As an instructional tool, television is greatly enhanced by color capacity in all levels of instructional programs in the liberal arts as well as the sciences. As OEPBS increases its emphasis of service to Oregonians in instructional and educational enrichment applications, the limitations imposed by black-and-white origination are extremely restricting. Similar restrictions are encountered in public service programs of informational design, but in the area of instruction these restrictions are of greatest significance.

Support for programming at the local level by the Corporation for Public Broadcasting is expressly emphasized by federal legislation which authorizes funding for the Corporation. Color originating capacity is at the highest priority level among criteria for such support; such capacity in Oregon will greatly increase the potential for fiscal support from the Corporation and other organizations.
Such support will assist substantially in the efforts of OEPBS to provide an increasingly valuable service to the citizens of the state.

Staff Recommendation to the Committee

It was recommended that the Public Services Committee recommend to the Board that it approve retention in its 1973-1975 capital outlay requests of the project for color television equipment, as presented to the Board at its meeting of July 24, 1972.

Committee Discussion and Recommendation

It is recommended by the Committee that the project be retained within the priorities list presented to the Board at its meeting of July 24, 1972.

Board Discussion and Action

Mr. Larson reported that subsequent to the Committee meeting an amount sufficient for local matching had been raised by the community of The Dalles to permit seeking federal funds to construct a television translator at that locality. Therefore, a grant application was filed with the U. S. Office of Education in the amount of $712,081 for color originating equipment and the translator. The translator installation will provide service to an additional 18,000 people through Channel 10 and an additional 4,500 students in areas not now receiving the Channel 10 signal either directly or by cable. He said the Emergency Board had approved the filing of the application.

The Board approved the recommendation as presented, with the understanding that the amount of the grant application was amended to $712,081, but that the amount in the capital outlay program listing would not be modified since amounts included for these projects are traditionally rounded to the nearest $5,000 figure.
Listing of Proposed Equipment for Color Broadcasting and Proposed Sources of Funds

Furnishings and Equipment - Group I - Part A

KOAP-TV, Portland Studio and Master Control:

1. Videotape Recorder, high band, color ONE @ $90,000 $ 90,000
2. Film Chain (2 projectors and multiplexer, TV film camera-color) ONE @ 80,000 80,000
3. Studio Camera, color TWO @ 70,000 140,000
4. Videotape recorder, high band, color ONE @ 90,000 90,000
5. Studio lighting for color production 15,000
6. Control and system changes for color broadcast including monitors, test equipment, wiring, etc. 25,000 $440,000

Furnishings and Equipment - Group I - Part B

KOAC-TV, Corvallis Studio:

7. Studio camera, color TWO @ 70,000 140,000
8. Film Chain (2 projectors, multiplexer and TV film camera, color) ONE @ 80,000 80,000
9. Studio lighting for color production 15,000
10. Control and system changes for color broadcast including monitors, test equipment, wiring, etc. 25,000 $260,000

Sources of funds:
General Fund and/or XI-G bonding $100,000
Federal funds 525,000
Other funds:
Gifts and grants (other than federal) Total as above 75,000 $700,000
At its meeting on August 28, 1972, the Public Service Activities Committee reviewed a proposal as follows to seek Federal Communications Commission approval to establish a 10-watt FM radio station at Eastern Oregon College:

Staff Report to the Committee

Associated Students of Eastern Oregon College have obtained from University of Oregon Associated Students a 10-watt FM radio transmitter and related equipment. Approval by the Federal Communications Commission for a construction permit and license to operate on an assigned educational frequency by the Board of Higher Education as licensee is required before installation can begin.

The proposal for the station projects location of the studios in the Eastern Oregon College Student Center Building and the transmitter in Ackerman Laboratory School attic area. Installation will be made with technical assistance of the consulting chief engineer of OEPBS, costs to be assumed by the Eastern Oregon College Associated Students. Operation of the station will be supported by Associated Students income and student volunteer operators.

Other low-power FM stations are operated at Oregon Technical Institute, Southern Oregon College, Oregon State University, and the University of Oregon.

Staff Recommendation to the Committee

It was recommended that the Committee propose Board action to approve the proposal.

Committee Discussion and Recommendation

The Public Service Activities Committee recommended that the Board approve the proposal for a 10-watt FM radio station at Eastern Oregon College as presented.

Board Discussion and Action

The Board approved the recommendation as presented.
Staff Report

The proposed courses for fall and winter terms of year 1972-73 and proposed procedures are as follows:

Fall Term

TV

Eng 115 EFFECTIVE READING. 3 hrs. (OSU) Preston Onstad, instructor. (12 tapes prepared by Telstar Productions, Inc., augmented by 8 tapes produced by OEPBS)

Couns 407(G) SEMINAR: DREIKURS ON CLASSROOM MOTIVATION. 3 hrs. (UofO) Dr. Ray Lowe, instructor. (15 tapes featuring Rudolph Dreikurs, augmented by 5 tapes prepared by OEPBS and featuring Dr. Lowe; sponsored in cooperation with the Student Services Section of the State Department of Education.)

CSPA 407 SEMINAR: PERSPECTIVES IN AGING, AN INTRODUCTION TO GERONTOLOGY. 3 hrs. (UofO) Bruce Bittle and Ed Stauffer, instructors. (20 thirty minute tapes prepared from 11 original sixty minute tapes featuring outstanding authorities in the field of gerontology. Color slides and film will replace 2/3 of the "talking face" while the sound track will be preserved virtually intact.)

Physics 131. FOUNDATIONS OF PHYSICAL SCIENCE. 3 hrs. (Marylhurst College) President Robert Krupp, instructor. (20 forty minute tapes prepared for Chicago TV Junior College with Robert Krupp as instructor.)

SUPERVISION. (A non-transfer community college course in cooperation with Portland Community College.) (Not a firm commitment.)

Radio

Open broadcast of a regular Oregon State University or Portland State University campus course directly from the classroom. (To be arranged)

Winter Term: A comparable program, reducing or increasing the number of courses depending upon fall term experience.

It is proposed:

1. That OEPBS be permitted to conduct the above experimental program of instruction under the following conditions:
   a. OEPBS will assume responsibility for the expense of producing and transmitting the courses and for instructional services.
b. Tuition to be charged at the rate of $12 per credit hour, or $36 for a three hour course.

c. Lesson guides, textbooks, and other instructional materials to be supplied by OEPBS for a separate fee. Students not registering for credit to be permitted to purchase these materials.

d. Registrations to be processed by the Division of Continuing Education with cost of this service to the Division of Continuing Education to be deducted from the total fee paid by the registrant.

2. That any excess of fee income over class expense be shared as follows:

a. Eighty percent to OEPBS to defray production expenses of subsequent course offerings and to improve the technical quality and professional excellence of the courses.

b. Ten percent to the Division of Continuing Education.

c. Ten percent to the institution approving the course, the instructor, and the instructional format.

Although the fee schedule suggested above is less than that approved for the Division of Continuing Education and the campus institutions, it is quite comparable to the fees charged for television and radio courses offered by other educational radio and television stations in the United States. It is also more nearly equivalent to the fees charged by community colleges.

The lower fee schedule is proposed in the interest of serving those students who are unable to attend campus institutions but who need formal college credit course work.

In line with the legislative challenge to maintain extramural or off-campus instruction on a self-support basis, OEPBS suggests that the lower tuition rate be charged during two experimental terms to determine if a significant number of students can be attracted to radio and television instruction when the cost is minimized. If the program does not approach self-support, tuition should be increased in subsequent terms.

Courses have been selected which would seem to meet public needs but which would not directly compete with campus offerings.

Careful attention should be given to the effect of OEPBS courses on the regular evening class program of the Division of Continuing Education. Competition should not develop between these two administrative units.
3. That the mechanics of OEPBS registrations be handled as follows:
   a. Students to register on special OEPBS packets and mailed in self-addressed envelopes to "OEPBS Campus of the Air."
   b. Registrations to be checked for completeness and accuracy by the Instructional Division staff, OEPBS, and then delivered to the DCE Registrar.
   c. The Instructional Division, OEPBS, to be responsible for liaison among the DCE Registrar, DCE Business Office, and the student.
   d. Fees in excess of the registration processing fee to be withheld by DCE will be transferred by DCE to OEPBS. Subsequently, OEPBS through the Instructional Division and the OEPBS Business Office will issue a statement of fee income and class expense for each course, and when income exceeds expenses will transfer to DCE 10 percent of such amounts and 10 percent to the campus institution. Actual transfer of funds to be deferred until all accounting processes have been completed.
   e. Instructional Division, OEPBS, to be responsible for handling instructional guides, viewer's guides, textbooks, and other materials necessary for either auditing or taking classes for credit. Reimbursement for such materials to be processed through the OEPBS Business Office.

4. OEPBS anticipates that some institutions throughout the state may approve Campus of the Air courses for regularly enrolled full-time students. It is not proposed that OEPBS charge additional tuition for such students. It is proposed, however, that OEPBS be authorized to charge back to the institutions at which such full-time students are registered the pro rata costs OEPBS may incur in individually serving such students.

Recommendation to the Committee

It was recommended that the Committee approve the proposed experimental program of instruction charges and fee distribution as outlined in the above proposal, and that the experimental program be reviewed by the Committee prior to final formulation of the Spring Term 1972-73 Campus of the Air schedules.

Committee Discussion

Mr. Donald Larson, Director of the Educational and Public Broadcasting Service, presented the proposal to the Committee. He stated that it is proposed to offer the courses on an experimental basis during the fall and winter terms of year 1972-73, with a review to be made of the actual operation of the program prior to final formulation of the instructional program for the spring term.
Mrs. Johnson inquired whether information is available regarding the probable costs of producing the program, such as cost of instructors' services and other costs. Mr. Larson responded that in television teaching programs in other states it has been found that production style and quality and operating costs vary greatly. In one program, the total cost of 20 half-hour class presentations might be $20,000. In others the cost might run to $20,000 for one class period.

Mrs. Johnson then inquired regarding the cost constraints which would operate in the proposed Oregon program. Mr. Larson said that the present budget capacity for underwriting the proposed program is very limited, and that the present estimated cost will be as low as $200 per class period in some courses and as high as $1,000 in others. He said that in one course it had been possible to procure completed tapes for 15 class periods, and that it would be necessary to prepare tapes for only five presentations in that course.

Mr. Corey inquired whether the Division of Continuing Education would receive full reimbursement for its cost in the proposed program. Mr. Larson replied that the Division of Continuing Education would receive full reimbursement for its costs. Mr. Corey asked how persons in certain areas, such as Eastern Oregon would make arrangements to receive the instructional programs. Mr. Larson said that area of the state could receive the programs by cable or translator services in most communities. Publicity will be provided at an early date to tell prospective students how to communicate with OEPBS in Portland or with the Division of Continuing Education representatives in the area.

Committee Recommendation

Mr. Mosser moved that the experimental program be approved.

The Public Service Activities Committee recommended that the Board approve the proposal for Campus of the Air as presented.

Board Discussion and Action

The Board approved the recommendation as presented.

President Layman announced that there would be an adjourned session of the September 26, 1972, Board meeting on October 25, 1972. The next regular Board meeting would be on November 27, 1972, at Portland State University.

He said Board Committee meetings were scheduled for October 24-25, 1972, on the campus of Portland State University.
Meeting #406-79

President Layman indicated that the following tentative schedule of regular Board meetings and Board Committee meetings during 1973 had been distributed to Board members:

**Board Meeting Dates**
- January 22, 1973 (Monday)
- March 27, 1973 (Tuesday)
- May 21, 1973 (Monday)
- July 23, 1973 (Monday)
- September 25, 1973* (Tuesday)
- November 26, 1973 (Monday)
- January 21, 1974 (Monday) (Tentative)

**Committee Meeting Dates**
- December 18-19, 1972 (Monday/Tuesday)
- February 20-21, 1973 (Tuesday/Wednesday)
- April 23-24, 1973 (Monday/Tuesday)
- June 25-26, 1973 (Monday/Tuesday)
- August 27-28, 1973 (Monday/Tuesday)
- October 23-24, 1973 (Tuesday/Wednesday)
- December 17-18, 1973 (Monday/Tuesday)

*A joint meeting with the State Board of Education and the Educational Coordinating Council will be held in Salem during the month of September. Time and place will be announced.

All of the Board and Committee meetings listed above are scheduled to be held in Portland.

The Board approved the schedule of meetings as presented.

Mr. Mosser reported that the Finance Committee had recommended to the Board that the capital construction program applicable to the Dental School be divided and the equipment portion placed as one of the top five priorities with the remainder of the amount to remain in the present priority position or to be dropped from the 1973-1975 listing.

Mr. Mosser said that following further discussions with Mr. Hunderup, he would amend that recommendation to place the clinical equipment amount of $1,145,000 as Priority No. 6 in the capital construction program.

The Board approved a motion by Mr. Mosser to place the clinical equipment as Priority No. 6 in the capital outlay listing with the amount not to exceed $1,145,000. The remainder of the Dental School improvement funds would remain in its present priority position.
Mr. Mosser reported that a recommendation had been approved at the joint meeting of the Board of Education and the Board of Higher Education with respect to library services. The recommendation was that the Department of Higher Education, acting through the Dean of Library Services, initiate a comprehensive review of duplicate holdings which due to low utilization need not be held by multiple institutions. It was stated that consideration should be given to using an outside consultant qualified to perform this review. It was further suggested that the Departments of Education and Higher Education should jointly consider the advantages of locating low-utilization materials in a central storage facility with all public educational libraries sharing equal access to the facilities. The central facility would be expected to be established in conjunction with a fully automated union listing of holdings and staff and service facilities at a minimal level.

Mr. Mosser moved that the Board adopt the recommendations from the joint meeting so that the staff would have authorization to proceed as recommended.

The Board approved the recommendation as presented.

Bids for the construction of the initial unit of the Environmental Fluid Dynamics Laboratory at Oregon State University were received in Corvallis on August 17, 1972. As adjusted to exclude four deductive alternates, the quotations received from five contractors ranged from a low of $153,920 to a high of $343,400. Separate bids for a metal building to house the recording and control equipment were received simultaneously, ranging from $21,000 to $25,000, but sufficient resources were not available to include this unit within the initial construction phase.

Upon the recommendation of institutional officials, a contract award was made to the low bidder for the construction of the concrete wave tank, and the following budget was approved:

Direct construction costs:

Concrete wave tank - Coast Contractors, Inc., Lake Oswego $153,920
Less - Change order modifications 4,939 $148,981
Other construction work related to utility services and temporary housing for recording and control equipment 17,920 $166,901
Professional service fees, including testing 20,000
Construction supervision and miscellaneous costs 3,500
Contingencies (approximately 4 percent of direct construction costs) 6,599 $197,000
Plans and specifications for the project were prepared by Cornell, Howland, Hayes & Merryfield/Hill, consulting engineers, Corvallis. As indicated in the minutes of the July 24, 1972, meeting of the Board, the facilities are to be located on a two-acre tract west of 35th Street and south of Jefferson Street (extended), immediately adjacent to the National Environmental Research Center. The wave tank is to be about 342 feet long, 12 feet wide and about 15 feet deep. (Because the bids exceeded substantially the estimate of the engineers, it was necessary to omit the deep section of the tank and the false bottom panels.)

Funds for the project were obtained through gifts and grants to the Oregon State University Foundation, Inc.

Board Discussion and Action

The Board accepted the report as presented. In response to a question, Mr. Hunderup said that the deep section of the tank and the false bottom panels could not be added at a later date without substantial cost. He said the bid alternate was sufficiently high that it would not be advisable to try to obtain the additional funds from other sources.

The Board accepted the report as presented.

Staff Report to the Board

Pursuant to the disposition agreement for land entered into with the Portland Development Commission, as reported at the December 9, 1968, meeting of the Board, a nineteenth, twentieth and twenty-first acquisitions of land have been consummated. The transactions (Nos. 2-72, 3-72, and 4-72) consisted of three parcels involving 28,485 square feet at a total price of $175,835.

Funds to finance the acquisition will be provided from proceeds of the sale of the 1966 issue of Article XI-G bonds for acquisition of land in the area of development of Portland State University.

Board Discussion and Action

The Board accepted the report as presented.

Staff Report to the Board

Pursuant to authorization granted by the Board on December 8, 1970, the Chancellor approved an allotment of $21,000 from the Board's reserve for physical plant rehabilitation and minor capital outlay to cover the estimated expenditure requirements for various water and sewer system revisions at Portland State University. The work includes the installation of backflow prevention devices for potable water systems at Lincoln Hall, Cramer Hall and Science I and also includes the separation of sanitary and storm sewer systems at Harder
House (School of Social Work), Francis Manor (Urban Studies Center, Ph.D. programs, etc.) and Library-West, all of which must be accomplished to fulfill requirements of the City of Portland.

Board Discussion and Action

The Board accepted the report as presented.

Report of Appointment of Engineers for Utility Improvements, SOC

Staff Report to the Board

Upon the recommendation of officials of Southern Oregon College, arrangements have been made for the professional services of Marquess & Marquess, consulting engineers, Medford, relating to the proposed second chiller unit in the south campus central heating plant and related utility improvements for which legislative authorization is being requested in 1973. For their services, the engineers are to be compensated on a time and materials basis with the understanding that the maximum shall not exceed a fee determined from the current schedule published by the Consulting Engineers Council of Oregon. Based upon the assumption of a direct construction cost of approximately $200,000, the maximum fee would be 8.11 percent, or $16,220. The total project budget is $270,000.

Funds required for the initial phases of planning are to be provided from the Board's reserve for architectural/engineering planning.

Board Discussion and Action

The Board accepted the report as presented.

Staff Report to the Board

At the May 22, 1972, meeting, the Board authorized the staff to offer the land and related improvements received from Westinghouse Broadcasting Co. for sale at a minimum price of $53,000. Pursuant to advertisement in accordance with state law, at the bid opening of July 14, 1972, no bids were received. The Board's attorney advised that private negotiations could be instituted within six months so long as the minimum advertised terms and conditions were met.

Subsequent to the bid opening, an offer was received from Port Service Company of Portland for $53,000 cash. The offer was accepted and the transaction has been consummated.

Board Discussion and Action

The Board accepted the report as presented.
The Academic Affairs Committee met in regular session at 9:00 A.M., August 29, 1972, in the main lobby of Science II, Portland State University, to consider the following matters:


Committee action on the report, and action of the Emergency Board on Governor McCall's request for funds to provide a small staff to begin preliminary work looking toward establishment of the center, will be reported as a part of the Chancellor's report.

2. Teacher Production in the State System.

Discussion and recommendation of the Committee is found on page 638 of these minutes.


Discussion and recommendations of the Committee will be included in the docket for the adjourned session of the Board scheduled for October 25, 1972. A public hearing has been scheduled for that date.


The Committee discussed briefly the policy proposal concerning off-campus instruction, approved by the Board August 28, on an experimental basis, for the 1972-73 year.

5. Transfer Policies Relating to Transfer Between Community Colleges and State System Institutions.

The State Board of Higher Education and the State Board of Education are under the requirement of reporting to the 1975 Legislative Assembly what the boards have done to comply with Senate Joint Resolution 15, which concerns the transfer situation.

The Committee accepted the preliminary draft of the report prepared by the Office of Academic Affairs. The Board's Office will work with the State Department of Education in the preparation of the final report for presentation to the Legislature.

6. Experimental Change in General Education Requirements for Arts and Sciences Majors at SOC.

The Committee accepted the report of Southern Oregon College on the second year of the three-year experiment.

Committee Discussion and Action

The Committee accepted the report.

A complete report of the Committee's meeting is presented in the document Report of the Meeting of the Committee on Academic Affairs, August 29, 1972, which is bound in a separate volume and will be considered an integral part of the Board's minutes.

Board Discussion and Action

The Board accepted the report as presented.

Condition of Board's Unappropriated Fund

CONDITION OF BOARD'S UNAPPROPRIATED AND PLANT REHABILITATION RESERVES as of September 26, 1972, for the Year Ending June 30, 1973

I. BOARD'S UNAPPROPRIATED RESERVE

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<th>Description</th>
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<td>Less: - Allocation to Eastern Oregon College to reinstate a tenured</td>
<td>$13,330</td>
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<td>staff member, approved by the Board on August 28, 1972.</td>
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<tr>
<td>- Docket item to allocate funds to Portland State University to ease the</td>
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<tr>
<td>loss to PSU of excess compensation previously received from the Division</td>
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<td>of Continuing Education</td>
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II. BOARD'S RESERVES FOR PLANT REHABILITATION

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<th>Description</th>
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<td>Less: Allocation to Portland State University for Water and Sewer</td>
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<td>Revisions to bring the systems up to code specifications</td>
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<td>Balance Estimated as of September 26, 1972</td>
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Board Discussion and Action

The Board accepted the report as presented.
At their September 1971 joint meeting, the Boards of Education and Higher Education and the Educational Coordinating Council commissioned a feasibility study of combined purchasing and centralized processing of library materials for the public four-year institutions, community colleges and larger school districts. A committee, appointed by the Educational Coordinating Council, has been reviewing this matter and will be presenting conclusions and recommendations to the September 21, 1972, Joint Boards and Council meeting.

The committee has addressed three major questions:

1. Are there potential advantages to be gained through joint purchasing of library materials by institutions and school districts?

2. Are there potential advantages to centralized technical processing of library materials by institutions and school districts?

3. Is there unnecessary duplication in acquisition and retention of library materials among institutions and school districts, and, if so, are there methods available to minimize or eliminate such duplication?

The committee's final recommendations will be distributed to the Educational Coordinating Council and to the Boards of Education and Higher Education by September 14. It would be inappropriate to release the tentative draft of the report at this time. It does appear, however, that the proposed extension of the LOLITA system, included in our budget request for 1973-1975, is consistent with the information developed by the committee.

Use of LOLITA as an on-line reference to current and recent orders of library materials by other institutions would significantly improve the ability of institutional libraries to assess the relative need to purchase an item as opposed to making it available to patrons through the inter-library loan program. At the present time there is no economical way for institutional libraries to avoid potentially unnecessary duplication of acquisitions. Development of such a central resource would allow assessment of proposed purchases in terms of availability from other sources.

We are confident that the institutional libraries are anxious to minimize duplication and make the most effective use of their acquisition budgets.

Further discussion of this subject may be more useful and appropriate after the committee's report has been reviewed by members of the Board.
Committee Discussion and Recommendation

The Finance Committee recommended that the Board accept the report as presented.

Board Discussion and Action

The Board accepted the report as presented.

Report of Survey of Branch Experiment Stations, OSU

Members of the Public Services Activities Committee and other Board members received copies of the report of the survey and study of the twelve branch experiment stations which are integral parts of the Oregon Agricultural Experiment Station operated by Oregon State University. The survey and study were performed and the report was prepared by Mr. Howell Appling, Jr., of Independent Distributors, Portland; Mr. Marvin L. Wilson, Associate Director of the Agricultural Experiment Station, Las Cruces, Mexico; and Mr. John S. Robins, Associate Administrator, Cooperative State Research Service, U.S. Department of Agriculture, Washington, D.C.

Because of lack of time for adequate consideration of the report, the members of Public Service Activities Committee recommended that further consideration of the report be scheduled for the next meeting of the Committee on October 25, 1972. In accordance with instructions from the members of the Committee, the Secretary of the Board wrote the members of the survey committee on behalf of the Board, expressing appreciation for their excellent report and for their efforts in conducting the survey and study.

Board Discussion and Action

The Board accepted the report as presented.
### SUMMARY OF GIFTS AND GRANTS TO DATE FOR YEAR 1972-73

<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 24, 1972</td>
<td>$11,374,016.92</td>
<td>$11,374,016.92</td>
<td>$11,089,024.94</td>
</tr>
<tr>
<td>(Above figure includes amount of Stauffer Endowment reported in July)</td>
<td></td>
<td></td>
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<tr>
<td>September 26, 1972</td>
<td>$11,067,451.79</td>
<td>$22,441,468.79</td>
<td>$21,730,568.37</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 was recommended that the Secretary of the Board be authorized to make suitable acknowledgement to the donors and grantors. The Board approved the recommendation as presented.

Oregon State University

Scholarships & Fellowships

Gifts totaling $2,574.25 from the following donors for scholarships and fellowships:

- American Legion Auxiliary, Cottage Grove, $200.00
- Associated Students, Lebanon Union High School, Lebanon, $450.00
- Georgia Pacific Foundation, Portland, $250.00
- Medford Rotary Foundation, through St. Mary's High School, Medford, $750.00
- Phi Kappa Alpha, through Oregon State University Foundation, Corvallis, $500.00
- Star Sprinkler Corporation, Philadelphia, Pennsylvania, $200.00
- Vanply, Inc., Albany, $224.25

Agency for International Development

Grants totaling $366,954 from the Agency for International Development, Washington, D.C., for research, as follows:

1. $219,054 - "The Control of Weeds in the Less Developed Countries," April 1, 1971, through December 31, 1972, under the direction of Dr. William R. Furtick, Professor of Agronomy.

2. $147,900 - "To provide a Program of Assistance to Turkey for Improvement of Wheat Production," April 1, 1972, through March 31, 1973, under the direction of Dr. Harry E. Clark, State Extension Specialist.

American Chemical Society

Grant of $20,000 from the American Chemical Society, Washington, D.C., for "Spectroscopic Studies of Metal Borohydrides and Simple A₂O₃ Compounds," September 1, 1972, through August 31, 1974, under the direction of Dr. Joseph W. Nibler, Assistant Professor of Chemistry.

American Society for Metals

Gift of $100 from the American Society for Metals, Lake Oswego, "so that they may purchase more volumes for the W. J. Kroll Metallurgical Collection."

Bonneville Power Administration

Grants totaling $26,368.75 from the Bonneville Power Administration, Portland, for research and other purposes, as follows:

1. $4,368.75 - "Improved Serviceability of Wood Products," under the direction of Mr. Robert Graham, Associate Professor, Forest Research Laboratory.
2. $22,000 - "For hydrogenation modeling programs to be performed through the Electrical Engineering Department," July 1, 1972, through June 30, 1973, under the direction of Mr. John F. Engle, Professor of Electrical Engineering.

Bureau of Land Management

Grant of $1,370.56 from the Bureau of Land Management, Washington, D.C., for research entitled, "Fate of Organic Arsenical Herbicides in Chemically Thinned Forests in Oregon and Washington," under the direction of Dr. Michael Newton, Associate Professor, Forest Research Laboratory.

H. D. Brunk

Gift of two sets of mathematics journals, valued at $1,887, from Mr. H. D. Brunk, Corvallis. The journals are Mathematical Reviews and American Mathematical Society Bulletin.

Mrs. C. Edaburn

Gift of books and embroidered Chinese textiles, valued at $180, from Mrs. Clara Edaburn, Portland, for use in the Department of Clothing, Textiles and Related Arts.

duPont Experimental Station

Gift of a General Radio Type 1554-A Sound and Vibration Analyzer, valued at $500, from the duPont Experimental Station, Wilmington, Delaware, through Mr. Carl G. Welborne, Control Manager.

Educational Coordinating Council

Grants totaling $60,946.10 from the Educational Coordinating Council, Salem, for research, and other purposes, as follows:

1. $5,618 - "Science Education Learning and Microteaching Centers," June 7, 1972, through July 18, 1973, under the direction of Dr. Karl J. Nice, Assistant Professor of Science Education.

2. $16,740 - "Chemistry Laboratory Subject-Matter Integration and Self-Instruction," June 7, 1972, through September 15, 1973, under the direction of Dr. David P. Shoemaker, Head of the Department of Chemistry.


5. $14,310 - "Self-Paced Instrumentation Laboratory for Mechanical Engineering and Mechanical Engineering Technology Students," June 7, 1972, through October 1, 1973, under the direction of Dr. Milton B. Larson, Professor of Mechanical Engineering.

Grants totaling $374,024 from the Environmental Protection Agency, Washington, D.C., for research, training programs, and other purposes, as follows:

1. $102,085 - "Graduate Training Program in Air Pollution," July 1, 1972, through June 30, 1973, under the direction of Dr. Richard W. Boubel, Professor of Mechanical Engineering, and Dr. E. Wendell Hewson, Chairman of Atmospheric Science.

2. $53,057 - "Effect of Water Temperature on Infectious Diseases and the Immune Response in Salmonid Fish," April 1, 1972, through June 8, 1973, under the direction of Dr. J. L. Fryer, Associate Professor of Microbiology, and Dr. K. S. Pilcher, Professor of Microbiology.

3. $10,239 - "Study on the Economic Costs of Air Pollution-Health," June 26, 1972, through April 25, 1973, under the direction of Dr. Herbert H. Stoevener, Associate Professor of Agricultural Economics.

4. $208,643 - "Biological Effects of Pesticides on the Dungeness Crab," May 1, 1972, through April 30, 1974, under the direction of Dr. Raymond E. Millemann, Professor of Fisheries.

Grant of $4,370.50 from the Ford Foundation, New York City, for "costs under an advanced study fellowship for Black Americans," July 1, 1972, through June 30, 1973, under the direction of Dr. Henry P. Hansen, Dean of the Graduate School.

A gift of ten rare books in the fields of pharmacy and medicine, from Dean and Mrs. F. A. Gilfillan, Corvallis. The gift is valued at $2,690, and are for use in the library.

Gift of 224 volumes, valued at $390, from Mr. Raleigh E. Fox, St. Augustine, Florida, for use in the library.

Grant of $13,853.54 from the Louis W. & Maud Hill Family Foundation, for payment of expenditures in connection with the "Improvement of Forestry Education Project," March to May 1972; and a similar grant of $4,233, for expenses of the "South Santiam Douglas Fir Research" during the fourth quarter.

Gift of 68 volumes, valued at $238, from Mrs. Curtis Holt, Portland, for use in the library.
<table>
<thead>
<tr>
<th>Donor/Group</th>
<th>Gift Description</th>
<th>Value</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>R. Johnson &amp; KMED</td>
<td>Gift of radio and television equipment, valued at $10,494.95 from Mr. Ray Johnson, and Station KMED, Medford, for use in radio and television educational operations.</td>
<td>$10,494.95</td>
<td></td>
</tr>
<tr>
<td>V. A. Madsen</td>
<td>Gift of three sets of physics journals, valued at $980, from Mr. Victor A. Madsen, Corvallis, for use in the library. The journals are: Nuclear Physics, Physical Review, and Physical Review Letters.</td>
<td>$980</td>
<td></td>
</tr>
<tr>
<td>Mrs. C. Maser</td>
<td>Gift of Japanese woodcut prints, valued at $400, from Mrs. Clifford Maser, to the art department in memory of her husband, Dean Clifford Maser. Mrs. Maser resides in Corvallis.</td>
<td>$400</td>
<td></td>
</tr>
<tr>
<td>W. H. McCluskey</td>
<td>Gift of single issues of Poultry Science Journal and World's Poultry Science Journal, valued at $435, from Mr. W. H. McCluskey, Corvallis, for use in the Department of Poultry Science.</td>
<td>$435</td>
<td></td>
</tr>
<tr>
<td>The Micromanipulator Co.</td>
<td>Gift of equipment, valued at $13,640, from The Micromanipulator Co., Escondido, California, for use in the Department of Electrical and Electronics Engineering.</td>
<td>$13,640</td>
<td></td>
</tr>
<tr>
<td>National Bureau of Standards</td>
<td>Grant of $8,821 from the National Bureau of Standards, Gaithersburg, Maryland, for &quot;A Specific Research Program in the Structures Section, Building Research Division of the National Bureau of Standards,&quot; September 16, 1972, through June 15, 1973, under the direction of Dr. Harold I. Laursen, Professor of Civil Engineering, and Dr. Frank D. Schuamburg, Head of Civil Engineering.</td>
<td>$8,821</td>
<td></td>
</tr>
<tr>
<td>National Endowment for the Humanities</td>
<td>Grant of $6,056 from the National Endowment for the Humanities, Washington, D.C., for &quot;Research on the Essays and Correspondence of Edward F. Ricketts,&quot; June 15, 1971, through August 15, 1973, under the direction of Dr. Richard B. Astro, Assistant Professor of English.</td>
<td>$6,056</td>
<td></td>
</tr>
<tr>
<td>National Oceanic and Atmospheric Administration</td>
<td>Grants totaling $29,058.76 from the National Oceanic and Atmospheric Administration, U. S. Department of Commerce, Seattle, Washington, for research and other purposes, as follows:</td>
<td>$29,058.76</td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>$5,000 - &quot;Ecosystem Studies, Inside Passage, Alaska,&quot; June 1 through June 30, 1972, under the direction of Dr. Herbert C. Curl, Professor of Oceanography.</td>
<td>$5,000</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>$2,962.50 - &quot;Improvement of Estimated Economic Value of the Oregon Salmon and Steelhead Sport Fishery,&quot; April 1 through July 1, 1972, under the direction of Dr. William G. Brown, Assistant Professor of Agricultural Economics.</td>
<td>$2,962.50</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>$8,596.26 - &quot;Exploratory Study To Determine Conditions of Resistance to New Product Acceptance in Seafood Marketing Channels,&quot; June 20 through October 15, 1972, under the direction of Dr. Philip B. Schary, Associate Professor of Business Administration.</td>
<td>$8,596.26</td>
<td></td>
</tr>
</tbody>
</table>
Grants totaling $227,888 from the National Science Foundation, Washington, D.C., for research, equipment, training programs, and other purposes, as follows:

1. $152,788 - "Collaborative Research in an Investigation of the NASCA Lithospheric Plate and Its Interaction with the South American Continental Block," May 1, 1971, through November 30, 1973, under the direction of Dr. LaVerne D. Kulm, Associate Professor of Oceanography.

2. $9,600 - "For implementation of an improved instructional program in the sciences," June 28, 1972, through June 30, 1974, under the direction of Dr. Milton B. Larson, Professor of Mechanical Engineering.

3. $5,000 - "To implement an improved instructional program in the sciences," June 28, 1972, through June 30, 1974, under the direction of Dr. Robert Lawrence, Assistant Professor of Geology.

4. $2,500 - "To implement an improved instructional program in the sciences," June 28, 1972, through June 30, 1974, under the direction of Dr. Peter C. Klingeman, Associate Professor of Civil Engineering.

5. $58,000 - "Provenance of North Pacific Sediments," September 1, 1971, through February 28, 1974, under the direction of Dr. Jack R. Dymond and Dr. G. Ross Heath, Assistant Professor of Oceanography.

Grants totaling $76,624 from the Oregon State Board of Education, Salem, for research, training programs, and other purposes, as follows:

1. $1,749 - "Stipends for Leadership Interns for Work Experience at the Oregon Board of Education," May 1 through June 30, 1972, under the direction of Dr. Henry A. Ten Pas, Director, Vocational, Adult and Continuing Education.

2. $59,600 - "Vocational Teacher Education for Continuing Programs and Special Personnel Preparation Projects," July 1, 1971, through June 30, 1972, under the direction of Dr. Henry A. Ten Pas.
3. $4,000 - "Vocational Education Summer Workshop for Excess Personnel and Supportive Costs To Meet Inservice Needs of Vocational Teachers as Requested by Oregon Board of Education Staff," June 1 through September 15, 1972, under the direction of Dr. Ten Pas.

4. $6,000 - "Continuing Teacher Education Program for Home Economics," July 1, 1971, through June 30, 1972, under the direction of Dr. Ten Pas.

5. $5,275 - "Developing Functional Literacy," July 1, 1972, through July 1, 1973, under the direction of Miss Isabella McQuesten, Professor of Adult Education.

Miss J. Patterson Gift of a linen banquet cloth, valued at $100, from Miss Joan Patterson, Corvallis. The gift was brought from Japan by Miss Patterson's mother.

Portland General Grants totaling $196,002 from Portland General Electric Co., and Pacific Power and Light Co., Portland, for research, as follows:

1. $120,000 - "Potential Utilization of Waste Heat from Power Generating Stations," July 1, 1972, through December 31, 1973, under the direction of Dr. James Knudsen, Director Engineering Experiment Station.


E. Schurmer Gift of an addition to the collection of historic textiles, from Mrs. Elizabeth Schurmer, Otis. The gift is valued at $125 and is for use in the Department of Clothing, Textiles, and Related Arts.

Teledyne - Wah Chang Albany Grant of $10,338 from Teledyne, Wah Chang Albany, Albany, for research entitled, "Electrode Processes: Reduction of Zr (IV), Hf (IV) in Fused Alkali Halides," July 1, 1972, through June 30, 1973, under the direction of Dr. Harry Freund, Professor of Chemistry.

Trojan Geophysical Advisory Board Grant of $5,550 from the Trojan Geophysical Advisory Board, Portland, for a "Gravity Survey in the Vicinity of the Trojan Site," June 26 through July 26, 1972, under the direction of Dr. Richard W. Couch and Dr. Donald Heinrichs, Assistant Professors of Oceanography.

Grant of $30,000 from the U. S. Department of the Army, Portland District, Corps of Engineers, Portland, "To develop a general methodology for making planning and management decisions for Oregon's estuarine natural resources," June 13, 1972, through February 12, 1973, under the direction of Dr. David A. Bella and Dr. Peter C. Klingeman, Associate Professors of Civil Engineering.

Grant of $6,498 from the U. S. Atomic Energy Commission, Washington, D.C., "To conduct a summer workshop on electric power generation," August 1 through August 31, 1972, under the direction of Dr. C. H. Wang, Director, Radiation Center.

Grant of $506.69 from the U. S. Forest Service, Washington, D.C., for a study related to "Management Alternatives for the Drift Creek Watershed," under the direction of Dr. J. H. Beuter, Associate Professor, Forest Research Laboratory.

Grants totaling $115,709 from the U. S. Department of Health, Education, and Welfare, Washington, D.C., for training programs, equipment and other purposes, as follows:

1. $14,459 - "For purchase and installation of instructional equipment and supplies for improved education," June 12, 1972, through June 30, 1973, under the direction of Dr. E. C. Stevenson, Associate Dean, School of Agriculture.

2. $20,250 - "For an International Educational Development Program for about 30 Teachers and Administrators from Other Countries," June 23 through December 18, 1972, under the direction of Dr. Lester Beals, Professor of Education.

3. $81,000 - "For expenses of the Upward Bound Program designed to assist high school students who are underachievers," July 1, 1972, through June 30, 1973, under the direction of Mr. Ernesto Lopez, Director, Upward Bound.

Grant of $676,466 from the U. S. Department of Labor, Washington, D.C., for expenses under a National Youth Corps In-School Program, June 1 through August 31, 1972, under the direction of Dr. Harry E. Clark, Community Development Specialist.

Grants totaling $654,745 from the U. S. Public Health Service, Washington, D.C., for research, training programs, and other purposes, as follows:

1. $34,440 - "Replication and Function of Nucleic Acids Isolate from Oncogenic Viruses," June 28, 1972, through June 27, 1973, under the direction of Dr. George S. Beaudreau, Associate Professor of Agricultural Chemistry.

2. $1,000 - "Postdoctoral Allowance in behalf of Robert Alvarez, Jr.," July 1, 1972, through June 30, 1973, under the direction of Dr. Thomas C. Moore, Professor of Botany.
3. $15,012 - "Development Award in behalf of Lyle R. Brown," July 1, 1972, through June 30, 1973, under the direction of Dr. P. R. Elliker, Chairman of Microbiology.

4. $285,744 - "Expenses under a Health Professions Education Improvement Training Grant," July 1, 1972, through June 30, 1973, under the direction of Dr. Charles O. Wilson, Dean of the School of Pharmacy.

5. $55,683 - "Health Professions Scholarship Program," July 1, 1972, through June 30, 1973, under the direction of Mr. Richard F. Pahre, Director of Financial Aids.

6. $125,000 - "Expenses for continued development of training courses and conduct of training sessions in Radiological Health," June 30, 1972, through June 29, 1973, under the direction of Dr. E. Dale Trout, Professor of Radiological Physics.


8. $29,385 - "Cultivation of Molluscan Cell Lines," June 27, 1972, through June 26, 1973, under the direction of Dr. C. J. Bayne, Assistant Professor of Zoology.

9. $43,691 - "Biochemical Basis for Establishment of Cell Polarity," June 1, 1972, through May 31, 1973, under the direction of Dr. Ralph S. Quatrano, Assistant Professor of Botany.

10. $28,342 - "Training Program in Hospital Engineering," July 1, 1972, through June 30, 1973, under the direction of Dr. James L. Riggs, Head of Industrial Engineering.

Urban Management Consultants

Grant of $44,924 from Urban Management Consultants, San Francisco, California, for research "to determine methods to improve Department of Health, Education, and Welfare funded manpower programming," July 1, 1972, through March 31, 1973, under the direction of Dr. Gary Sorenson, Chairman of Economics.

University of Washington

Grant of $61,901 from the University of Washington, Seattle, Washington, for "expenses for participation in the Coastal Upwelling Ecosystems Research Program," May 1, 1972, through June 30, 1974, under the direction of Dr. Robert L. Smith, Associate Professor of Oceanography.

Washington State Vocational Education Coordinating Council

Grant of $88,875 from the Washington State Vocational Education Coordinating Council, Olympia, Washington, "for an occupational training program in construction engineering," June 26 through September 1, 1972, under the direction of Dr. George B. LaBaun, Associate Professor of Civil Engineering.
Meeting #406-96

Miss J. Wasson
Gift of publications, slides and slide boxes, valued at $1,577.20, from Miss Jo Wasson, Seattle, Washington, for student and faculty use in the Department of Clothing, Textiles, and Related Arts.

Willamette National Forest
Grant of $5,756 from the Willamette National Forest, Eugene, for "the development of a timber sales status reporting system and to put it on the computer and monitor the program for a period of time to insure acceptability and usability," June 19 through December 29, 1972, under the direction of Dr. Paul E. Paschke, Assistant Professor of Business Administration.

Grants to Agric. Exper. Stations:
Grants to the several Agricultural Experiment Station Departments and Divisions, for research work and other purposes, from various donors, as follows:

Agricultural Engineering Research Foundation
$5,700 - "Animal Waste Disposal and Field Drainage Investigation Research," under the direction of Dr. M. G. Cropsey, Professor of Agricultural Engineering, and Dr. R. H. Brooks, Associate Professor of Agricultural Engineering.

Agricultural Research Foundation
$3,325 - "Evaluation of Fungicides for the Control of Diseases of Tree Fruits," under the direction of Mr. Iain C. MacSwan, Extension Plant Pathology Specialist.

$1,300 - "Non-virus Diseases of Orchard Crops," under the direction of Dr. H. Ronald Cameron, Professor of Plant Pathology.

$7,880 - "Improvement of Yield and Quality of Hops," under the direction of Dr. C. E. Horner, Professor of Plant Pathology.

$3,178 - "A Study of Dairy Sanitation Procedures," under the direction of Dr. P. R. Elliker, Professor of Microbiology.

$2,375 - "Forage Breeding," under the direction of Dr. R. V. Frakes, Professor of Plant Breeding, Farm Crops.

$7,000 - "Hop Research," under the direction of Dr. C. E. Horner, Professor of Plant Pathology.

$3,325 - "Malting Barley Cereal Research," under the direction of Dr. W. E. Kronstad, Associate Professor of Agronomy.

$4,435 - "Seed Improvement," under the direction of Dr. D. F. Grabe, Professor of Agronomy.

$250 - "Weed Control," under the direction of Dr. L. F. Taylor, Research Associate of Farm Crops.

$2,612 - "Sanitation Studies," under the direction of Dr. P. R. Elliker, Professor of Microbiology.

$1,843.75 - "Foot Rot of Wheat Caused by the Fungus Cereosporella Herpotrichoides," under the direction of Dr. R. L. Powelson, Associate Professor of Plant Pathology.
Meeting #406-97

$4,341 - "Activity and Flavor Production of Lactic Cultures," under the direction of Dr. W. E. Sandine, Professor of Microbiology.

$13,700 - "Control of Soil Temperature with Reactor Cooling Water," under the direction of Dr. L. L. Boersma, Professor of Soils.

$13,100 - "Weed Control," under the direction of Dr. A. P. Appleby, Associate Professor of Agronomy.

$2,813.53 - "Representing the value of equipment transferred from the Agricultural Research Foundation to the various departments and Experiment Stations."

Bureau of Sport Fisheries and Wildlife

$4,000 - "Ecology of the Columbian White-Tailed Deer Along the Lower Columbia River in Washington and Oregon," under the direction of Mr. Howard M. Wight, Professor of Wildlife Ecology.

Ciba-Geigy Corporation

$5,000 - "Soils, Pesticides and Quality of Water Research," under the direction of Dr. V. V. Volk, Associate Professor of Soils.

duPont Company

$1,250 - "Weed Control," under the direction of Dr. A. P. Appleby, Associate Professor of Agronomy.

Klamath County

$6,500 - "Cooperative Research with Klamath County," under the direction of Mr. G. E. Carter, Assistant Professor of Agronomy.

Miller-Morton (A-E Robbins)

$9,000 - "Parasites on Pets Research," under the direction of Dr. R. L. Goulding, Professor of Entomology.

National Council on Stream Improvement

$7,500 - "Research on Effects of the Paper Industry on Streams," under the direction of Dr. C. E. Warren, Professor of Fisheries.

Oregon Essential Oil Growers League

$2,500 - "Control of Mint Diseases," under the direction of Dr. C. E. Horner, Professor of Plant Pathology.

Oregon State Game Commission

$10,000 - "Cooperation in Wildlife Research, Education, Public Relations and Demonstration," under the direction of Mr. Howard M. Wight, Professor of Wildlife Ecology.

$5,510 - "Oregon Anglers Survey," under the direction of Dr. Lyle D. Calvin, Professor of Statistics.

OSU Foundation

$4,233 - "Douglas Fir Rooting Project," under the direction of Dr. A. N. Roberts, Professor of Horticulture.

Shell Development Company

Silver Standard Mines Limited $500 - "Growth Promoting Effects of Hydrous Aluminum Silicates for Broiler-type Chickens," under the direction of Dr. G. H. Arscott, Professor of Poultry Nutrition.

Stauffer Chemical Company $2,250 - "Mode of Action, Toxicity, and Factors Influencing the Effectiveness of Fungicides," under the direction of Dr. M. E. Corden, Professor of Plant Pathology.

Syntex Corporation $20,000 - "Research on Induction of Heat and Fertility in Pre-Puberal Pigs," under the direction of Dr. D. C. England, Professor of Animal Science.

Tulana Farms $516 - "Soil Fertility-Vegetable," under the direction of Dr. T. L. Jackson, Professor of Soil Science.

U.S. Dept. of Agriculture $1,580.04 - "Conducting Farm Research Concerning Filbert and Small Fruit Production Experiments," under the direction of Dr. S. E. Apple, Jr., Professor of Horticulture.

U.S.D.A. Veterinary Sciences $2,074.65 - "The Interrelationship of Mycoplasma from Animal and Plant Sources," under the direction of Dr. J. O. Stevens, Assistant Professor of Veterinary Medicine, and Dr. E. M. Dickinson, Professor of Veterinary Medicine.

U.S. Dept. of Interior, Bureau of Land Management $7,584.61 - "Evaluation Properties and Quality, Oregon Soil Series," under the direction of Dr. G. H. Simonson, Associate Professor of Soils.

Western Oregon Onion Growers Association $1,060 - "Soil Fertility-Vegetables," under the direction of Dr. T. L. Jackson, Professor of Soil Science.

University of Oregon

Scholarships & Fellowships Gifts totaling $2,808.50 from the following donors for scholarships and fellowships:

The Active 20-30 Club, Grants Pass $ 100.00
The Byron Company, West Linn 150.00
Crawfordsville Elementary School, Crawfordsville 150.00
Gamma Phi Beta, Eugene 100.00
George J. Graham Scholarship Fund, through Winters National Bank and Trust Co., Dayton, Ohio 300.00
Georgia-Pacific Foundation, Portland 250.00
Matanuska Electric Association, Inc., Palmer, Alaska 600.00
Oregon Educational Media Association, Eugene 300.00
Oregon Golden Gloves, Inc., Portland 300.00
P.E.O. Sisterhood, Chapter CZ, North Bend 393.00
The Rockefeller Foundation, New York City 165.50
Trust Territory of the Pacific Islands, Honolulu, Hawaii 100.00
**Meeting #406-99**  
*September 26, 1972*

<table>
<thead>
<tr>
<th>Organization/Merit Source</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cherokee Boys' Club</td>
<td>Grant of $15,813 from the Cherokee Boys' Club, Cherokee, North Carolina, &quot;for the Cherokee Boys' Club's participation in the University of Oregon Follow-Through Program,&quot; July 1 through August 31, 1972.</td>
</tr>
<tr>
<td>Chicago Board of Education</td>
<td>Grant of $8,044 from the Board of Education, City of Chicago, Chicago, Illinois, &quot;for participation in Follow-Through Program,&quot; July 1, 1971, through August 31, 1972, under the direction of Dr. Wesley Becker, Professor of Education.</td>
</tr>
<tr>
<td>East St. Louis School Dist. 189</td>
<td>Grant of $45,655 from the East St. Louis School District No. 189, East St. Louis, Illinois, &quot;for participation of East St. Louis School District No. 189 in the University of Oregon Follow-Through Program,&quot; July 1, 1971, through August 31, 1972, under the direction of Dr. Wesley Becker, Professor of Education.</td>
</tr>
</tbody>
</table>
| Educational Coordinating Council | Grants totaling $18,893 from the Educational Coordinating Council, for the following projects:  
1. $4,615 - "Toute La Bande - A Proposal for the Improvement of Undergraduate French," June 7, 1972, through August 31, 1973, under the direction of Dr. Elisabeth A. Marlow, Assistant Professor of Romance Languages.  
2. $14,278 - "Development of an Intermediate German for Speaking Course Based Exclusively on Audio-Visual Media," June 7, 1972, through June 30, 1973, under the direction of Dr. Helmut R. Plant, Associate Professor of German. |
| The Ford Foundation | Grant of $5,000 from The Ford Foundation, New York City, "to provide a dissertation fellowship in ethnic studies on behalf of Litchfield Thompson," June 1, 1972, through June 30, 1973, under the direction of Mr. Calvin Fisk, Assistant to the Dean, Graduate School. |
| Linn-Benton Intermediate Education District | Grant of $2,500 from the Linn-Benton Intermediate Education District, for a project entitled, "System Approach to Behavior in Reading Education," July 1 through July 31, 1972, under the direction of Dr. Carl Wallen, Associate Professor of Education. |
| Montana State Superintendent of Public Instruction | Grant of $1,200 from the State of Montana, Office of Superintendent of Public Instruction, Helena, Montana, for "A Summer Traineeship and Support Grant on Behalf of Patrick Lee," June 19 through August 31, 1972, under the direction of Dr. Herbert Prehm, Chairman, Special Education. |
| Mott Foundation | Grants totaling $104,233 from the Mott Foundation, Flint, Michigan, effective July 1, 1972, through June 30, 1973, for the following projects:  
1. $98,233 - "For continued support of the Northwest Community Education Development Center," under the direction of Mr. Larry Horyna, Assistant Professor of Education. |
2. $6,000 - "Two regional internships in Community Education," July 1, 1972, through June 30, 1973, under the direction of Mr. Horyna.

National Aeronautics & Space Administration

Grant of $16,000 from the National Aeronautics and Space Administration, Moffett Field, California, for research entitled, "Transition Probabilities in Multiply Ionized Atoms," July 1, 1972, through June 30, 1973, under the direction of Dr. Bernd Crasemann, Professor of Physics.

National Science Foundation

Grants totaling $50,909 from the National Science Foundation, Washington, D.C., for research, training grants, and other purposes, as follows:

1. $6,209 - "Graduate Traineeship Program Supplement," June 1, 1970, through September 30, 1971, under the direction of Dr. C. W. Fisk, Assistant to the Dean, Graduate School.

2. $14,700 - "A Study of Quaternary Sedimentary History of the Nearshore and Offshore Areas of Selected Parts of Taiwan," August 1, 1972, through January 31, 1974, under the direction of Dr. Sam Boggs, Jr., Associate Professor of Geology.

3. $30,000 - "Chromosome Movements and Fine Structure of the Spindle," September 1, 1972, through February 28, 1974, under the direction of Dr. Andrew Bajer, Professor of Biology.

Oregon Board of Education

Grants totaling $7,200 from the Oregon State Board of Education, Salem, for research and training programs, as follows:

1. $6,600 - "Support grant on behalf of eleven trainees in special education," June 19 through August 31, 1972, under the direction of Dr. Herbert Prehm, Chairman, Special Education.

2. $600 - "Additional funding for Mini-grant applied research proposal for career exploration guidance," academic year 1971-72, under the direction of Dr. John Loughary, Head, Counseling Department.

Children's Service Division

Grant of $35,341 from the Children's Service Division, Department of Human Resources, Salem, "for continued support of the CSPA-Children's Service Field Instruction Program," July 1, 1972, through June 30, 1973, under the direction of Miss Myra S. Miller, Associate Director, Field Instruction Program, School of Community Service and Public Affairs.

Oregon System in Mathematics Education

Grants totaling $205,097 from the Oregon System in Mathematics Education, Oregon Mathematics Education Council, Salem, for research, training programs, and other purposes, as follows:

1. $10,762 - "Support of Computer Science In-Service Program," April 15, 1972, through July 31, 1973, under the direction of Dr. David Moursund, Associate Professor of Computer Science.
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2. $117,239 - "For support of University of Oregon Academic Year Program," April 15, 1972, through September 30, 1973, under the direction of Dr. Alan Hoffer, Associate Professor of Mathematics.

3. $30,452 - "For support of Elementary School Teacher Mathematics Program," April 15, 1972, through September 30, 1973, under the direction of Dr. Alan Hoffer.

4. $46,644 - "To provide summer and academic year salary and part-time secretarial services for Donald Rasmussen and Eugene Maier," June 19, 1972, through June 30, 1973, under the direction of Dr. Eugene Maier, Professor of Mathematics.

The above grants are subgrants from the National Science Foundation through the Oregon Mathematics Education Council.

Oregon State Employment Division

Grant of $9,965 from the Oregon State Employment Division, "Salem, for further testing and revision of "Quest" program portions of the Occupational Information Access System, June 27, 1972, through June 27, 1973, under the direction of Mr. Bruce McKinlay, Research Associate, School of Community Service and Public Affairs.

Sacramento State College Foundation

Grant of $2,000 from Sacramento State College Foundation, Sacramento, California, "to assist the University of Oregon in planning and developing a Mexican-American bi-lingual project similar to the one at Sacramento State College," June 15 through July 31, 1972, under the direction of Dr. Norbert Maertens, Chairman, Curriculum and Instruction.

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

Grants totaling $1,363,372.30 from the Department of Health, Education, and Welfare, Washington, D.C., for research, training programs, and other purposes, as follows:

1. $98,807 - "Supplement for 1972-73 College Work-Study Program," July 1, 1972, through June 30, 1973, under the direction of Mr. Larry Large, Director of Financial Aids.

2. $65,295 - "Special Services for the Disadvantaged," July 1, 1972, through June 30, 1973, under the direction of Dr. Gerald Bogen, Vice President for Student Services, and Dr. Clarence Shminke, Associate Dean, College of Education.

3. $200,000 - "Community Group Homes for Developmentally Disabled," and "Developmentally Disabilities Council Evaluation System," June 12, 1972, through February 28, 1973, under the direction of Dr. Andrew S. Halpern, Associate Professor, Special Education.

4. $18,000 - "Primarily for staff salaries to carry out purposes of Section 408, Higher Education Act of 1965 (Talent Search) among minority and/or disadvantaged students specifically in
the greater Portland metropolitan area and to some extent through the rest of the state," July 1, 1972, through June 30, 1973, under the direction of Mr. Paul L. Franklin, Associate Director of High School Relations.

5. $79,293 - "To establish a school and extend clinic services for developmentally disabled," June 30, 1972, through June 29, 1973, under the direction of Dr. Robert Schwarz, Professor of Education.

6. $20,015 - "Training Institute for Cooperative Service to Newly Blinded," August 1 through August 31, 1972, under the direction of Mr. Harold W. James, Assistant Professor of Education.

7. $97,651.30 - "Increases in indirect cost rates in connection with the Center for the Advanced Study in Educational Administration (CASEA)," for the fiscal year 1968 through fiscal year 1970, under the direction of Dr. Max Abbott, Professor of Education.

8. $9,218 - "For support of College Library Resources Program," July 1, 1972, through June 30, 1973, under the direction of Dr. Carl Hintz, Librarian.

9. $54,691 - "Supplemental award for 1972-73 Educational Opportunity Grant Program," July 1, 1972, through June 30, 1973, under the direction of Mr. Larry Large, Director of Financial Aids.

10. $195,000 - "Continued support of the ERIC Clearinghouse for Educational Administration," June 1 through December 31, 1972, under the direction of Dr. Philip K. Piele, Assistant Professor of Education.

11. $380,000 - "Institute for Studies in Gerontology," July 1, 1972, through June 30, 1973, under the direction of Dr. Frances Scott, Professor of Education.

12. $106,705 - "In continued support of the Upward Bound Program," July 1, 1972, through June 30, 1973, under the direction of Dr. Gerald Bogen, Vice President for Student Services, and Dr. Clarence Schminke, Associate Dean, College of Education.

13. $17,800 - "Rehabilitation Research and Training Center Grant for Summer Employment Program," March 1, 1972, through February 28, 1973, under the direction of Dr. Andrew S. Halpern, Associate Professor of Education.

14. $20,897 - "Continued support of a Re-Entry Program for Delinquent Youth Returning to the Community," July 1, 1972, through August 31, 1973, under the direction of Dr. Stanley Cohen, Director, Teacher Corps Program.
Grant of $10,000 from the U. S. Department of the Interior, Bureau of Land Management, Washington, D.C., for a project entitled "Resource Information and Analysis System," July 1, 1972, through June 30, 1973, under the direction of Mr. Robert E. Keith, Associate Director, Bureau of Governmental Research and Service.

Grants totaling $5,928 from the U. S. Department of Labor, Washington, D.C., for the following purposes:

1. $1,450 - "To enable qualified students to complete program development or improvement projects on Tongue Point Job Corps Center," June 19 through September 8, 1972, under the direction of Mr. J. E. Spaulding, Business Manager.

2. $4,478 - "Doctoral dissertation grant on behalf of Lois Ann Martin," July 1, 1972, through March 31, 1973, under the direction of Dr. Joan Acker, Assistant Professor of Sociology.

Grant of $4,600 from the University of Oregon Development Fund, Eugene, representing the transfer of funds from the Eugene Water and Electric Board award for research entitled, "Evaluation of Potential Geothermal Resources for Power Production," July 1 through November 1, 1972, under the direction of the Director of the Development Fund.

Grant of $600 from the Department of Education, State of Wyoming, Cheyenne, Wyoming, as a "support grant on behalf of George Edward Gardner," summer session 1972, under the direction of Dr. Herbert Prehm, Chairman, Department of Special Education.

Grants totaling $249,572 from the U. S. Public Health Service, Washington, D.C., for research, fellowships, and other purposes, as follows:

1. $10,400 - "Predoctoral fellowship award on behalf of Frances B. Kerr," September 1, 1972, through August 31, 1974, under the direction of Dr. Steven Keele, Associate Professor of Psychology.


3. $77,840 - "NMR Studies of Macromolecular Structure and Dynamics," June 1, 1972, through May 31, 1973, under the direction of Dr. Frederick W. Dahlquist, Assistant Professor of Chemistry.

4. $5,300 - "Predoctoral fellowship award on behalf of Pamela Birrell," June 13, 1972, through June 12, 1973, under the direction of Dr. Myron Rothbart, Assistant Professor of Psychology, and Dr. Aaron Novick, Dean of the Graduate School.
5. $14,360 - "Development Award - Research Career Program on behalf of Dr. John F. Keana," September 16, 1972, through September 15, 1973, under the direction of Dr. William Simpson, Head, Department of Chemistry.

6. $27,969 - "Genetic Control Systems in Development of Drosophila," June 1, 1972, through May 31, 1973, under the direction of Dr. John H. Postlethwait, Assistant Professor of Biology.

7. $1,000 - "Special Supply Allowance on behalf of Mary L. Rothbart," June 15, 1972, through June 14, 1973, under the direction of Dr. Ray Hyman, Professor of Psychology.

8. $25,597 - "Mechanism of Chemotaxis in Bacteria," June 1, 1972, through May 31, 1973, under the direction of Dr. Frederick W. Dahlquist, Assistant Professor of Chemistry.

9. $1,000 - "Doctoral supply allowance on behalf of Robert Porter," May 10, 1972, through May 9, 1973, under the direction of Dr. Sidney A. Bernhard, Research Associate, Institute of Molecular Biology.

10. $79,502 - "Correlation of Structure and Function in Muscle," June 1, 1972, through May 31, 1974, under the direction of Dr. Graham Hoyle, Professor of Biology.

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

Mrs. H. Arvonen
Manuscripts and working materials for two novels, valued at $300, from Mrs. Helen Arvonen, Sault Ste. Marie, Ontario, Canada.

Mr. and Mrs. L. Carroll
Original art work, dummies, manuscripts, and working materials, valued at $2,400, from Mr. and Mrs. Latrobe Carroll, New York City. They are authors and illustrators of books for children.

Miss M. Cormack
Manuscripts for books and short stories, radio scripts, and related original working materials and correspondence, valued at $1,380, from Miss Maribelle Cormack, Providence, Rhode Island.

Miss J. Cunningham
Manuscripts of short stories, novels, and poetry, plus correspondence, valued at $1,841, from Miss Julia Cunningham, Santa Barbara, California.

E. Federn
A collection of books by and about Egyptologists and their work, valued at $484.90, from Mr. Ernst Federn, Cleveland Heights, Ohio. The gift is from the library of Mr. Federn's late brother, Dr. Walter Federn, a recognized expert in the field of Egyptology.
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P. Kleinsorge  Journals, periodicals, books, and related texts in the field of economics, valued at $611.85 from Professor Paul L. Kleinsorge, Eugene.

Miss E. H. Mizner  Manuscripts and working files for two novels, from Miss Elizabeth Howard Mizner, Traverse City, Michigan. The gift is valued at $225.


Miss M. Scherf  Manuscript and working materials for one novel from Miss Margaret Scherf, Kalispell, Montana. The gift is valued at $150.

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

M. S. Farnham  Tri-colored plastic hanging, painted and fringed, from Mary S. Farnham, Portland. The gift is valued at $100.

Mr. and Mrs. L. B. Forbes  Portfolio of 25 reproductions, valued at $625, from Mr. and Mrs. L. B. Forbes, Palm Desert, California. The portfolio contains portraits by Leona Belle Jacobs of famous authors, and each is personally autographed by the subject.

The Friends of the Museum  Color lithograph by Mark Tobey entitled, "Apparuit," from The Friends of the Museum, Eugene. The gift is valued at $270.

Dr. & Mrs. G. Hull  Ceramic plate in glazed stoneware by Robert James, from Dr. and Mrs. George Hull, Eugene. The gift is valued at $100.

W. Johnson  Acrylic painting by Frank Okada, from Mr. Wallace Johnson, Eugene. The gift is valued at $1,400.

Mrs. M. S. Kemp  Graphite drawing by Margaret S. Kemp, entitled "Clothed Figure, No. 2," from Mrs. Margaret Stark Kemp, Eugene. The gift is valued at $100.

Oregon Arts Commission  Grant of $2,667 from the Oregon Arts Commission, Salem, to provide supplemental funds for "Portable Outdoor Arts Structure Phase II: Construction," June 1, 1971, through June 30, 1972, under the direction of Mr. Tony Diez, Assistant Director, Museum of Art.

R. C. Paulin  Oil paintings, valued at $1,775, from Mr. Richard C. Paulin, Eugene.

Mr. & Mrs. W. C. Paulin  A pair of Korean brass bowls in the form of lotus flowers, valued at $120, from Mr. and Mrs. Walter C. Paulin, Eugene.

V. Witham  Oil painting entitled "Square Root of Seeds," by Mr. Vernon Witham, from Mr. Witham, Eugene. The gift is valued at $2,500.
Pencil drawing by Manuel Izquierdo, entitled, "Bride," from Mr. William Wunsch, Sylmar, California. The gift is valued at $200.

Oil painting by Louis Bunce, entitled "Portrait of Eda," from Mr. and Mrs. William Zentner, Eugene. The gift is valued at $1,200.

Grants totaling $83,517 from the U. S. Public Health Service, Washington, D.C., for research, training programs, and other purposes, as follows:

1. $21,576 - "A Study To Determine the Feasibility of Conducting an Interdisciplinary Training Program in Gerontology." July 1, through June 30, 1973, under the direction of Dr. James S. Bennett, Chairman, Department of Gerontology.

2. $46,146 - Health Profession Special Project Grant entitled, "Recruitment of Disadvantaged Students into Dentistry," July 1, 1972, through June 30, 1973, under the direction of Dr. Cecil K. Claycomb, Chairman, Biochemistry Department.

3. $15,795 - "Cost reimbursable contract to establish a training program in expanded duties for dental auxiliaries," June 30, 1972, through June 29, 1973, under the direction of Dr. William B. Wescott, Associate Dean.

Gifts totaling $1,950 from the following donors for scholarships and fellowships:

American Business Women's Association, Barlow Toll Gate Chapter, Portland $ 300.00
Benton County Medical Auxiliary, Corvallis 150.00
Clackamas County Tuberculosis and Health Association, Oregon City 1,000.00
National Foundation March of Dimes, Tillamook County Chapter, Tillamook 500.00

Grant of $1,000 from the American Heart Association, Inc., New York City, "in further support of research in the Department of Physiology," July 1, 1972, through June 30, 1973, under the direction of Dr. J. Job Faber, Associate Professor of Physiology.

Gift of $100 from Mr. and Mrs. A. G. Bartole, Vancouver, Washington, for urology research, under the direction of Dr. Clarence V. Hodges, Head of the Department of Urology.
<table>
<thead>
<tr>
<th>Organization</th>
<th>Description</th>
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<tbody>
<tr>
<td>Mr. &amp; Mrs. J. J. Bruemmer</td>
<td>Gift of $100 from Mr. and Mrs. John J. Bruemmer, Portland, for speech and language research, under the direction of Dr. Herold Lillywhite, Professor of Speech Pathology.</td>
</tr>
<tr>
<td>Canadian Heart Foundation</td>
<td>Grant of $9,450 from the Canadian Heart Foundation, Ottawa, Canada, &quot;in support of a postdoctoral fellowship for Dr. B. R. Chaitman in Cardiology,&quot; July 1, 1972, through June 30, 1973, under the direction of Dr. B. R. Chaitman, Postdoctoral Fellow in Cardiology, and Dr. Herbert E. Grisvold, Professor and Head of the Division of Cardiology.</td>
</tr>
<tr>
<td>Chatfield Estate</td>
<td>Bequest of $1,000 from the estate of Lina H. Chatfield, Portland, for research in the Department of Ophthalmology, under the direction of Dr. Kenneth C. Swan, Professor of Ophthalmology.</td>
</tr>
<tr>
<td>L. Christensen</td>
<td>Gift of $600 from Dr. L. Christensen, Portland, for use in the Department of Ophthalmology, under the direction of Dr. Swan.</td>
</tr>
<tr>
<td>The Collins Foundation</td>
<td>Grant of $16,580 from The Collins Foundation, Portland, in support of a research project in &quot;Atopic Dermatitis,&quot; July 1, 1972, through June 30, 1973, under the direction of Dr. Walter C. Lobitz, Professor and Chairman of the Department of Dermatology.</td>
</tr>
<tr>
<td>Forsman Estate</td>
<td>Bequest of $1,642.18 from the Theresa H. Forsman Estate, through the U. S. National Bank, Portland, for use in the Doernbecher Memorial Hospital for Children, under the direction of Dean C. N. Holman.</td>
</tr>
<tr>
<td>The Hervin Company</td>
<td>Gift of $900 from The Hervin Company, Tualatin, for animal care research, under the direction of Mr. Allan Rogers, Director, Animal Care.</td>
</tr>
<tr>
<td>L. Inmann</td>
<td>Gift of a Shetland Pony, valued at $500, from Dr. Leslie Inmann, Hillsboro, for use in the Animal Care Center, under the direction of Mr. Allan Rogers.</td>
</tr>
<tr>
<td>The S. S. Johnson Foundation</td>
<td>Grant of $2,500 from The S. S. Johnson Foundation, Redmond, for use in the Crippled Children's Division, under the direction of Dean C. N. Holman.</td>
</tr>
<tr>
<td>J. L. Kahle</td>
<td>Gift of $250 from Mr. J. L. Kahle, Buffalo, New York, for multiple sclerosis research in the Department of Neurology, under the direction of Dr. Roy Swank, Department of Neurology.</td>
</tr>
<tr>
<td>Kidney Association of Oregon</td>
<td>Grant of $6,000 from the Kidney Association of Oregon, Portland, &quot;for a Kidney Association research project under the direction of Dr. Talwalker,&quot; July 1, 1972, through June 30, 1973, under the direction of Dr. Yeshawant Talwalker, Instructor in Pediatrics.</td>
</tr>
<tr>
<td>Medical Research Foundation of Oregon</td>
<td>Grant of $283,246.94 from the Medical Research Foundation of Oregon, Portland, &quot;for various research projects conducted at the University of Oregon Medical School,&quot; July 1, 1971, through June 30, 1972, under the direction of Mr. M. R. Parelius, Business Manager, and Mr. W. A. Zimmerman, Associate Dean for Business Affairs.</td>
</tr>
</tbody>
</table>
The National Foundation
Grant of $8,000 from The National Foundation, New York City, "in further support of the Birth Defects Research Center," January 1 through December 31, 1972, under the direction of Dr. Neill R. M. Buist, Associate Professor of Pediatrics.

Oregon Cancer Society
Grants totaling $10,785 from The Oregon Cancer Society, Portland, for research, as follows:

1. $7,000 - "Development of a Chemical Probe for the Study of Protein-Nucleic Acid Interactions," August 1, 1972, through July 31, 1973, under the direction of Dr. Michael Litt, Professor of Biochemistry.

2. $3,785 - "Control of Protein Synthesis in Virus-Infected Cells," July 1, 1972, through June 30, 1973, under the direction of Dr. Barbara H. Iglewski, Assistant Professor of Microbiology.

Oregon Heart Association
Grants totaling $61,513 from the Oregon Heart Association, Portland, for research and other purposes, July 1, 1972, through June 30, 1973, unless otherwise indicated, as follows:

1. $7,972 - "Myocardial Effects of Intravenous Quabain," under the direction of Dr. E. Louise Kremkau, Assistant Professor of Cardiology.

2. $11,500 - "Platelet Aggregation in Coronary Vessels," under the direction of Dr. Arthur J. Seaman, Professor and Head of the Division of Hematology.

3. $1,785 - "Oregon Hypertension Epidemiology Study," under the direction of Dr. William E. Morton, Professor of Public Health.

4. $8,182 - "Elucidation of the Dynamics and Control of Thermal Stress-Induced Activation of Aldosterone and Renin Secretion in Man," June 1, 1972, through May 31, 1973, under the direction of Dr. Richard E. Bailey, Associate Professor of Diabetes and Metabolism.

5. $10,133 - "Investigation for Hypo- and Hyper-beta-lipoproteinemia in the Cord Blood of Newborns and Their Families," under the direction of Dr. Everett W. Lovrien, Associate Professor of Crippled Children's Division.

6. $10,146 - "Factors Influencing Velocity of Angiotensin," under the direction of Dr. Walter J. McDonald, Assistant Professor of Medicine.

7. $8,000 - "Postdoctoral fellowship for Dr. Jack Rosenberg in Cardiology," under the direction of Dr. Martin H. Lees, Professor of Pediatrics.
8. $3,795 - "Hemodynamic Studies in Infants Immediately after Total Correction of Transposition of the Great Arteries," June 1, 1972, through May 31, 1973, under the direction of Dr. Lawrence Bonchek, Assistant Professor of Cardiopulmonary Surgery.

Oregon State Elks Association

Grant of $14,800 from the Oregon State Elks Association, Salem, "in support of the Elks' Children's Eye Clinic Program," under the direction of Dr. Kenneth C. Swan, Chairman, Department of Ophthalmology.

Pioneer Filters, Inc.

Grant of $15,000 from Pioneer Filters, Inc., Beaverton, "in support of a fellowship from Pioneer Filters, Inc., for research with Dacron wool as an appropriate filter material for blood," beginning July 1, 1972, under the direction of Dr. Roy L. Swank, Professor and Head of the Division of Neurology.

D. E. Sullivan

Gift of $100 from Dr. D. E. Sullivan, Spokane, Washington, for the unrestricted use of the Medical School, under the direction of Dean C. N. Holman.

Research To Prevent Blindness, Inc.

Grant of $5,000 from Research To Prevent Blindness, Inc., New York City, for development of programs of ophthalmic research, under the direction of Dr. Kenneth C. Swan, Professor of Ophthalmology.

K. C. Swan

Gift of $625 from Dr. Kenneth C. Swan, Portland, for use in the Department of Ophthalmology.

Taylor Trust

Trust funds in the amount of $2,778.60 from the Millard B. Taylor Trust, Portland, for the M. B. Taylor Student Loan Fund, under the direction of Dr. C. N. Holman, Dean.

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

Grant of $37,237 from the U. S. Department of Health, Education, and Welfare, through the University of Colorado, as a subgrant for research entitled, "Randomized Study To Determine the Efficacy of Prednisone, Azathioprine, and Salicylazosulfapyridine in the Treatment of Patients with Crohn's Disease," May 15, 1972, through May 31, 1975, under the direction of Dr. John A. Benson, Jr., Professor and Head of the Division of Gastroenterology.

U.S. Public Health Service

Grants totaling $3,048,506 from the U. S. Public Health Service, Washington, D.C., for research, training programs, and other purposes, July 1, 1972, through June 30, 1973, unless otherwise indicated, as follows:

1. $182,849 - "In further support of the Oregon Regional Medical Program," July 1 through August 31, 1972, under the direction of Dr. J. S. Reinschmidt, Coordinator, Oregon Regional Medical Program.

2. $19,145 - "In further support of a Medical Library Resource Project for Catalog Revision," June 1, 1972, through May 31, 1973, under the direction of Miss Margaret Hughes, Librarian.
3. $29,895 - "Hearing and Tinnitus," April 1, 1972, through March 31, 1973, under the direction of Dr. Jack A. Vernon, Professor of Otolaryngology.

4. $1,000 - "Postdoctoral fellowship supply allowance for Dr. Jeffrey Pinto in Biochemistry," June 1, 1971, through May 31, 1973, under the direction of Dr. J. Peter Bentley, Associate Professor of Biochemistry.

5. $6,302 - "Feasibility Study: Effects of Training on Day Care," June 15, 1972, through May 31, 1973, under the direction of Dr. Ivan B. Inger, Associate Professor of Psychiatry.

6. $59,550 - "Effects of Long-Term Narcotic Antagonist Therapy," June 26, 1972, through June 25, 1973, under the direction of Dr. Samuel Irwin, Professor of Pharmacology in Psychiatry.

7. $62,804 - "Graduate training program in Psychiatry - GP Special," July 1, 1972, through June 30, 1977, under the direction of Dr. Harold I. Bowerman, Professor of Child Psychiatry.

8. $38,237 - "Angiography and Cardiovascular Radiology Training Program," under the direction of Dr. Charles T. Dotter, Professor and Chairman, Department of Diagnostic Radiology.

9. $19,440 - "In further support of a training program - GP Special Training," under the direction of Dr. George Saslow, Professor and Chairman, Department of Psychiatry.

10. $29,970 - "In further support of a research career award in Neuroendocrinology and Thyroid Physiology," under the direction of Dr. Monte A. Greer, Professor and Head of the Division of Endocrinology.

11. $67,174 - "Training Program for a Continuing Education Program in Mental Health for Oregon," under the direction of Miss Charlotte Markel, Associate Professor of Psychiatric Nursing.

12. $62,856 - "Graduate Training Program in Ophthalmology," under the direction of Dr. Kenneth C. Swan, Professor and Chairman, Department of Ophthalmology.

13. $123,714 - "Graduate Training Program in Medical Cardiology," under the direction of Dr. Herbert E. Griswold, Professor and Head of the Division of Cardiology.

13. $253,018 - "Collaborative Perinatal Study," under the direction of Dr. William M. Clark, Professor of Pediatrics.
14. $30,000 - "Health Professional Scholarship," under the direction of Mr. M. R. Parelius, Business Manager.

15. $126,065 - "In support of a student loan fund for medical students only to increase the opportunities for training physicians by providing loans with low interest," July 1, 1964, through June 30, 1973, under the direction of Mr. M. R. Parelius, Business Manager.

16. $689,966 - "Training Program in Mental Retardation," under the direction of Dr. Leroy O. Carlson, Associate Professor of Pediatrics.

17. $3,511 - "The Development and Fate of the Innervation of the Ductus Arteriosus," under the direction of Dr. Howard W. Davis, Assistant Professor of Anatomy.

18. $42,673 - "Undergraduate Training Program in Psychiatry," under the direction of Dr. George Saslow, Professor and Chairman, Department of Psychiatry.

19. $91,846 - "Nursing Capitation Grant Program," under the direction of Miss Jean E. Boyle, Dean, School of Nursing.

20. $758,491 - "Health Professions Capitation Program Grant," under the direction of Dean Charles N. Holman.

21. $57,341 - "Graduate Training Program in the Biological Sciences," under the direction of Dr. John M. Brookhart, Professor and Chairman, Department of Physiology.

22. $75,546 - "Graduate Training Program in Child Psychiatry," under the direction of Dr. Harold I. Boverman, Professor of Child Psychiatry.

23. $185,937 - "Graduate Training Program in Psychiatry," under the direction of Dr. George Saslow, Professor and Chairman, Department of Psychiatry.

24. $30,376 - "Training Project for Undergraduate Psychiatric Nursing," under the direction of Miss Charlotte Markel, Associate Professor of Psychiatric Nursing.

UOMS Advancement Fund
Grant of $17,150 from the University of Oregon Medical School Advancement Fund, for hospital equipment, under the direction of Dean Holman.

Portland State University
Gifts totaling $1,324 from the following donors for scholarships and fellowships:

- Cleveland High School, Portland
- Executive Women's Club, Portland

$1,014.00
$310.00
Grant of $29,644 from the Concentrated Crime Reduction Program, High Impact Task Force, Portland, "to support conduction of a victimization study," July 1 through November 30, 1972, under the direction of Mr. Leon R. Arens, Project Director.

Gift of a Hank Kowet water color landscape, entitled "Flat Lands," from Mrs. Henry L. Corbett, Sr., Portland. The gift is valued at $250.

Grants totaling $48,195 from the Educational Coordinating Council, Salem, for the following projects:

1. $27,750 - "Liberal Education Process Changes," June 7, 1972, through June 7, 1974, under the direction of Dr. Judah Bierman, Director, University Scholars Program.

2. $6,862 - "A Self-Directed Field Trip for Courses in Environmental Studies," June 7-1972, through June 7, 1974, under the direction of Dr. John Dart, Professor of Geography.

3. $13,583 - "Enrollment and Facilities Planning for Educational Center," September 1, 1972, through June 30, 1973, under the direction of Dr. Ronald Cease, Dean of Undergraduate Studies. These funds will be used to develop a study to determine the short and long-term facility needs of the University's Educational Center, based on a projection of enrollment and curriculum.

Gift of a 12-volume set of the Oxford English Dictionary, valued at $300, from Mr. Roy Feldenheimer, Portland. The gift is for the use of the faculty and students of the Department of English, under the direction of Dr. Frederick Waller, Head of the Department of English.

Gift of $200 from the First State Bank of Oregon, Milwaukie, "to be used in connection with the Portland Interdisciplinary Science Project for High Schools," during the 1972-73 academic year, under the direction of Dr. Michael Fiasca, Associate Professor of Education. This project is designed to gather the various sciences into a better coordinated course of study.

Gift of $225 from Mrs. Nona Glazer-Malbin, Portland, "to hire College Work-Study Project Students," during 1971-72, under the direction of Dr. George Hoffman, Dean, Social Sciences.

Grant of $2,000 from the Oregon Arts Commission, Salem, "to support four out-of-town summer music concerts," July 1 through October 31, 1972, under the direction of Mr. William P. Stalnaker, Professor of Music.
Grants totaling $9,856 from the Oregon State Board of Education, Salem, for the following purposes:

1. $600 - "Fellowship Award to Jean V. Polson for 1972 Summer Session, providing support for tuition, with the balance of the funds to be used to develop the special education program," June 15 through September 30, 1972, under the direction of Dr. Keith Larson, Professor of Education.

2. $9,256 - "Development of a Behaviorally-Oriented Curriculum for the Educable Mentally Retarded," July 25 through September 30, 1972, under the direction of Dr. Steve Brennan, Associate Professor of Special Education.

Grants totaling $64,307 from the Oregon Mathematics Education Council, Salem, for institutes and training programs, as follows:

1. $17,704 - "To support the Professor in Residence Program," September 18, 1972, through June 30, 1973, under the direction of Mr. Leonard G. Swanson, Assistant Professor of Mathematics.

2. $33,186 - "Remedial Mathematics Training Centers," April 15, 1972, through July 31, 1973, under the direction of Dr. Gavin Bjork, Associate Professor of Mathematics.

3. $13,417 - "Summer Institute in Mathematics for Secondary School Teachers," June 19 through September 30, 1972, under the direction of Mr. Leonard Swanson, Assistant Professor of Mathematics.

Subgrant of $39,472 through the Oregon State Public Welfare Division, Salem, for continuation of "A Learning Center within the Albina Multi-Service Center," July 1, 1972, through June 30, 1973, under the direction of Miss Kay Jernigan, Assistant Professor of Social Work.

Gift of $500 from Pacific University, Forest Grove, "to provide for all expenses, except musicians' wages and per diem, for the Summer Music Concert held at Pacific University, Forest Grove, July 12, 1972," July 1 through October 31, 1972, under the direction of Dr. William P. Stalnaker, Professor of Music.

Gift of $500 from the Rainier Brewing Company, Seattle, Washington, "for use as an award or grant," effective in 1972, under the direction of Dr. E. Dean Anderson, Vice President, University Relations.

Grants totaling $8,200 from Tektronix Incorporated, Tigard, for equipment and other purposes, as follows:

1. $8,100 - Representing the value of a cathode ray tube computer print-out system to be used in the Physics
Department, under the direction of Mr. Mark Gurevitch, Head of the Physics Department.

2. $100 - "For use in the Model United Nations Program," beginning March 16, 1972, under the direction of Mr. Howard Dahlstrom, Administrative Officer, Educational Activities.

U.S. Dept. of Agriculture, Forest Service

Grant of $1,100 from the U. S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station, Portland, to support a research project entitled, "Factors Restricting West-Side Distribution of Douglas-Fir Dwarf Mistletoe, Arceuthobium douglasii," June 15 through August 15, 1972, under the direction of Dr. Robert O. Tinnin, Assistant Professor of Biology.

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

Grants totaling $339,275 from the U. S. Department of Health, Education and Welfare, Washington, D.C., for research, training programs and other purposes, July 1, 1972, through June 30, 1973, unless otherwise indicated, as follows:


2. $6,400 - "Environmental Education Program at Portland State University," June 20, 1972, through June 20, 1973, under the direction of Mr. Donald Stotler, Visiting Professor of Education.

3. $55,000 - "To support the Zagreb Institute for Central European Studies for the 1972-73 Academic Year," August 1, 1972, through June 30, 1973, under the direction of Mr. Fritz L. Kramer, Resident Director and Professor of Geography.

4. $27,000 - "To support the continuation of the Environmental Education Center at Portland State University," under the direction of Mr. Donald Stotler, Visiting Professor of Education.

5. $50,000 - "Special Services for Minority and Low Income," under the direction of Mr. Julius William Wilkerson, Director of Operation PLUS.

6. $84,375 - "Institute for Studies in Gerontology," under the direction of Mr. John O'Brien, Director, Institute on Aging.

U.S. Environmental Protection Agency

Grant of $30,880 from the U. S. Environmental Protection Agency, Washington, D.C., for an "Undergraduate Air Pollution Training Grant," July 1, 1972, through June 30, 1973, under the direction of Dr. Frank Terraglio, Associate Professor of Applied Science.
U.S. Dept. of Justice

Grant of $7,500 from the U. S. Department of Justice, Law Enforcement Assistance Administration, Seattle, Washington, "to support grants made to student interns who are employed under the Law Enforcement Education Internship Program," June 22 through August 31, 1972, under the direction of Mr. Bonner Robinson, Head of Financial Aids.

U.S. Dept. of Labor

Grant of $1,166 from the U. S. Department of Labor, Manpower Administration, Washington, D. C., "for a Job Corps Fellowship, assigned to Timberlake Civilian Conservation Center," June 19 through September 1, 1972, under the direction of Dr. John Schulz, Professor of Education.

U. S. Public Health Service

Grants totaling $472,944 from the U. S. Public Health Service, Washington, D. C., for research, training programs, institutes, fellowships, and other purposes, July 1, 1972, through June 30, 1973, unless otherwise indicated, as follows:

1. $70,774 - "Social Work Child Advocacy in Day Care," under the direction of Dr. Gordon Hearn, Dean, School of Social Work.

2. $42,398 - "Teaching-Trainingship Grant in School Social Work," under the direction of Mr. Robert L. Roy, Assistant Professor of Social Work.

3. $45,230 - "Maternal and Child Health Services Training," under the direction of Mrs. June A. Dunn, Assistant Professor of Social Work.


5. $76,036 - "Psychiatric Social Work Masters Level Program," under the direction of Mr. Dale A. Poteet, Assistant Professor of Social Work.

6. $38,892 - "Continuing Education for Social Work in Mental Health," under the direction of Miss Sonja C. Matison, Assistant Professor of Social Work.

Gifts to the Library:

Gifts to the Portland State University Library from the following donors:

A. Bachman

Books in the areas of science, mathematics and teacher education, from Mr. Alfred Bachman, Arroyo Grande, California. The gift is valued at $1,147.

Mrs. W. A. Boggs

Monographic and serial publications in the fields of American, English, and continental European literature, and files of manuscripts and research in progress from the library of the late Professor W. Arthur Boggs, from Mrs. Boggs, Portland. The gift is valued at $5,216.
Volumes in the field of accounting, business and taxation, from Haskins & Sells, Certified Public Accountants, Portland. The gift is valued at $156.

Monographic and periodical volumes of materials in political science, history and economic and social planning, from Mrs. Charles McKinley, Portland. The gift is valued at $770.

Volumes in the areas of American history and fiction, including Messages and Papers of the American Presidents (11 volumes) and The American Statesmen Series (40 volumes), from Mrs. Kingsley Trenholme, Portland. The gift is valued at $372.

Books and periodicals in the biological sciences from Dr. M. R. Zingeser, Portland. The gift is valued at $584.25.

Oregon College of Education

Grant of $2,016 from the Salem School District 24J, Salem, "to provide four courses during Summer Session 1972 for Career Opportunities Program (COP)," June 19 through August 11, 1972, under the direction of Mr. John N. Sparks, Director of Business Affairs.

Grant of $7,740 from the Trust Territory of the Pacific Islands, Saipan, Mariana Islands, "to pay salary and education expenses of William Eperiam and Kangichy Welly, for the 1972-73 academic year while in the deaf program," September 1, 1972, through June 18, 1973, under the direction of Dr. Dennis Fahey, Professor of Education.

Grants totaling $14,212 from the U. S. Bureau of Indian Affairs, Juneau Area Office, Juneau, Alaska, for the following purposes:


2. $13,125 - "To provide a workshop for supervisory level personnel of the Bureau of Indian Affairs," June 1 through June 30, 1971, under the direction of Dr. James H. Beaird, Director of Teaching Research.

Grants totaling $304,730 from the U. S. Department of Health, Education, and Welfare, Washington, D.C., for training programs and other purposes, as follows:

1. $211,000 - "For fellowships for training of professional personnel in the education of the handicapped," June 19, 1972, through June 30, 1973, under the direction of Dr. Dennis J. Fahey, Professor of Education.

2. $57,501 - "To provide supplemental College Work-Study Funds and Educational Opportunity Grants," July 1, 1972, through June 30, 1973, under the direction of Dr. Jack Morton, Dean of Students.
3. $36,229 - "Short Term Training for Vocational Rehabilitation Counseling Personnel," September 1, 1971, through August 31, 1972, under the direction of Dr. Josephine Carr, Assistant Professor of Education for the Deaf.

**U.S. Dept. of Justice**

Grant of $1,500 from the U. S. Department of Justice, Washington, D.C., "to pay wages of students in the Law Enforcement Education Internship Program," summer 1972, under the direction of Mr. James M. Summer, Assistant Dean of Students.

**Various Individuals**

Gift of $635 from various individuals, to establish an emergency loan fund entitled, "Tonie Neufeldt Endersby Memorial Loan Fund," under the direction of Dr. Jack Morton, Dean of Students.

**Eastern Oregon College**

**Scholarships & Fellowships**

Gifts totaling $4,212 from the following donors for scholarships and fellowships:

- Bureau of Indian Affairs, Juneau Area Office, Juneau, Alaska $ 600.00
- Bureau of Indian Affairs, Northern Idaho Agency, Lapwai, Idaho 400.00
- Bureau of Indian Affairs, Portland Area Office, Portland 125.00
- Bureau of Indian Affairs, Umatilla Agency, Pendleton 700.00
- Bureau of Indian Affairs, Warm Springs Agency, Warm Springs 1,737.00
- Nez Perce Tribal Executive Committee, Lapwai, Idaho 400.00
- P.E.O. Sisterhood, Oregon State Chapter, Corvallis 150.00
- Wallowa Alumni Association, Wallowa 100.00

**Bacon Estate**

Bequest of $2,500 from the Florence Bacon Estate, La Grande, to the student memorial loan fund, under the direction of Mr. James C. Lundy, Business Manager.

**Daughters of Union Veterans of Civil War**

Gift of $200 from the Daughters of Union Veterans of the Civil War, Portland, as a gift to the student loan fund "in the interest of more and better teachers," under the direction of Mr. Lundy.

**Educational Coordinating Council**

Grants totaling $20,333.47 from the Educational Coordinating Council, Salem, for the improvement of undergraduate instruction, June 7, 1972, through May 31, 1974, as follows:

1. $6,368 - "Multi-Media Independent Learning Program for History 203 (U.S. History)," under the direction of Dr. Charles Coate, Associate Professor of History.

2. $5,408.13 - "A Visual Approach in Qualitative Analysis," under the direction of Dr. Richard A. Hermens, Associate Professor of Chemistry.
3. $8,557.34 - "Independent Student Self-Study Laboratory Development in General Botany and Bioecology," under the direction of Dr. S. Conrade Head, Associate Professor of Biology.

Grants totaling $82,200 from the U.S. Department of Health, Education and Welfare, Washington, D.C., for training programs, as follows:

1. $32,200 - "To provide stipend payments to Indian students participating in a Health Service Training Program," July 1, 1972, through June 30, 1974, under the direction of Mr. Gary N. Storey, Coordinator of Minority Student Programs.

2. $50,000 - "To provide counseling tutoring and other special services to minority students, primarily for Indian students," July 1, 1972, through June 30, 1973, under the direction of Mr. Gary N. Storey.

Oregon Technical Institute

Gifts totaling $1,866 from the following donors for scholarships and fellowships:

<table>
<thead>
<tr>
<th>Donor</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ashland High School Student Body, Ashland</td>
<td>$100.00</td>
</tr>
<tr>
<td>California-Pacific Utilities Company of Klamath Falls</td>
<td>$516.00</td>
</tr>
<tr>
<td>Mr. C. H. Hamaker, Klamath Falls</td>
<td>$100.00</td>
</tr>
<tr>
<td>Hawaiian Club - Hui-O-Hawaii - of OTI, Klamath Falls</td>
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<tr>
<td>Quota Club, Klamath Falls</td>
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<tr>
<td>Santiam Memorial Hospital Auxiliary, Stayton</td>
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<tr>
<td>Soroptimist Club of Klamath Falls</td>
<td>$550.00</td>
</tr>
<tr>
<td>Tech Mates of OTI, Klamath Falls</td>
<td>$100.00</td>
</tr>
</tbody>
</table>

Gift of used foundry equipment, valued at $1,100 from Columbia Steel Castings Company, Portland, for use in the mechanical engineering technology program.

Gift of a matched set of surface grinder angle plates, a precision sine bar vise and a small hand vise, valued at $400, from Mr. Don A. Derminer, Klamath Falls, for use in the Metals Department.

Gift of various items of electrical equipment, valued at $150, from East Side Electric Company, Klamath Falls, for use in Mechanical Engineering Technology.

Grants totaling $15,649.50 from the Educational Coordinating Council, Salem, for the following projects:

1. $6,443.50 - "Specific Program in Technical Vocabulary Development," under the direction of Mr. Gary Wehr, Associate Professor, Communications Department.
2. $9,206 - "Development of Engineering Materials Design Handbook, Materials Specimens," under the direction of Mr. Jay Silva, Professor, Mechanical Engineering Technology.

Esco Corporation
Gift of used sand testing equipment, valued at $500, from the Esco Corporation, Portland, for use in the Mechanical Engineering Technology Department.

Ford Motor Company
Gift of $250 from Ford Motor Company, Dearborn, Michigan, "to be used for the college's general educational budget," in the Auto-Diesel Technology Department.

Silver X-Ray Corporation
Gift of a Kodak M-3 Automatic Film Processor, valued at $2,500, from Silver X-Ray Corporation, San Francisco, California, for use in the Physical Science Technology Department.

U.S. Dept. of Health, Education & Welfare
Grants totaling $155,200 from the U.S. Department of Health, Education and Welfare, Washington, D.C., for training programs and equipment, as follows:

1. $75,902 - "Funds for the College Work-Study Program," under the direction of Dr. Terrance R. Brown, Director of Financial Aids.

2. $74,298 - "Funds for Educational Opportunity Grants Program," under the direction of Dr. Terrance R. Brown.

3. $5,000 - "Instructional equipment under Title VI a of the Higher Education Act," under the direction of Mr. Ray G. Prevost, Dean of Faculty.

Winema Electric Company
Gift of electrical equipment, valued at $375, from the Winema Electric Company, Klamath Falls, for use in Mechanical Engineering Technology.

Division of Continuing Education
Grants totaling $80,991 from the Oregon State Board of Education, Salem, for training programs and other purposes as follows:

1. $66,667 - Federal subgrant "to further and extend training opportunities to the disadvantaged residents of Oregon in keeping with the provisions of the Manpower Development and Training Act," July 1, 1972, through June 30, 1973, under the direction of Mr. David Mair, Assistant Professor and Project Director.