Meeting #403-121

May 22, 1972

Report of Bids and Contract Awards for Classroom Building, EOC

Inasmuch as the property is located within the area designated for the proposed Perimeter Road at the south edge of the campus, funds to finance the acquisition are being provided from proceeds from the sale of Article XI-G bonds authorized by Chapter 664, Oregon Laws 1969, supplemented to the extent necessary from the General Fund appropriation within Chapter 709, Oregon Laws 1971.

Board Discussion and Action

The Board accepted the report as presented.

Staff Report to the Board

On September 7, 1971, a report was made to the Board of the acceptance of the construction documents phase of planning for the Classroom Building at Eastern Oregon College which had been authorized as part of both the 1969-1971 and 1971-1973 capital outlay programs. Later that month, a request was made to the State Emergency Board to release for expenditure the funds appropriated for the project but favorable action was deferred until February 24-25, 1972. Thereafter, bids were solicited and were received in La Grande on April 6, 1972, as follows:

<table>
<thead>
<tr>
<th>Class of Work</th>
<th>Number of Bids</th>
<th>Low Bid</th>
<th>High Bid</th>
</tr>
</thead>
<tbody>
<tr>
<td>General work</td>
<td>5</td>
<td>$927,777</td>
<td>$1,145,900</td>
</tr>
<tr>
<td>Mechanical work</td>
<td>5</td>
<td>384,369</td>
<td>479,020</td>
</tr>
<tr>
<td>Electrical work</td>
<td>3</td>
<td>108,375</td>
<td>132,250</td>
</tr>
</tbody>
</table>

One general work bidder also submitted an optional quotation for the combination of general-mechanical-electrical work, but the amount thereof was $1,443,777 or $23,256 more than the sum of the lowest bids received for the three separate contracts.

Inasmuch as the sum of the lowest bids was well within the direct construction cost allowance and the estimate of the project architects, Hewlett, Jamison & Atkinson, Portland, contract awards were made and the following budget was approved:

- **Direct construction costs:**
  - General work - C. E. Klock & Son Construction Co., Tigard: $927,777
  - Mechanical work - Fuiten Plumbing & Heating Co., Forest Grove: 384,369
  - Electrical work - Hansen Electric Co., Coos Bay: 108,375
  - Total direct construction costs: $1,420,521

- **Professional services fees, including consultants (net of $70,000 allotted from 1969 legislative authorization):** 56,678
- **Furnishings and equipment:** 256,659
- **Site work, including landscaping:** 25,000
- **Construction supervision:** 32,000
- **Miscellaneous, including Physical Plant costs:** 10,732
- **Contingencies (2 percent of direct construction costs):** 28,410
  - Total project cost: $1,830,000
The indicated total of $1,830,000 is $170,000 less than the expenditure limitation of $2,000,000 authorized by the Board and the 1971 Legislature.

Based upon the gross area of 39,844 square feet, the direct construction costs of $1,358,138 applicable to the building and fixed equipment, excluding outside utilities and site work, average approximately $34.09 per square foot.

The two-story reinforced concrete building is to be located south of the Ackerman Laboratory School, north of the present athletic fields, near 8th Street and I Avenue, consistent with the long-range campus development plan. The new facilities would serve the students and faculty in four divisions: (1) Education-Psychology; (2) Mathematics-Science; (3) Humanities; (4) Social Science-Business. A total of approximately 660 classroom and laboratory student stations and 48 office stations would be provided within the facilities.

Except for $70,000 of planning costs allotted from the General Fund appropriation in 1969, the Classroom Building is being financed equally from bond borrowings issued under the provisions of Article XI-G of the Oregon Constitution and from the General Fund appropriation in Chapter 709, Oregon Laws 1971.

RECAPITULATION UPON RECEIPT OF BIDS AND AWARD OF CONTRACTS

Project - EOC Classroom Building
Architects - Hewlett, Jamison & Atkinson, Portland
Legislative authorization - Chapter 709, Oregon Laws 1971
Board's priority - No. 11 in 1971-1973 (per listing of educational and general plant projects approved December 8, 1970)
Approximate gross area - 39,844 square feet
Estimated total project costs (excluding $70,000 allotted for architectural planning during 1969-1971) $1,830,000
Estimated direct construction costs:

<table>
<thead>
<tr>
<th>Total</th>
<th>$1,420,521</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building and fixed equipment</td>
<td>Total</td>
</tr>
<tr>
<td>Avg - $34.09 per square foot</td>
<td>$1,358,138</td>
</tr>
</tbody>
</table>

Tentative schedule:
Contract awards - April 1972
Completion - September 1973

Tentative financing plan:
Proceeds from Article XI-G bond borrowings $915,000
General Fund appropriation in Chapter 709, Oregon Laws 1971
Total $915,000
Total $1,830,000

Board Discussion and Action
The Board accepted the report as presented.
Upon the recommendation of Oregon State University officials and the project architects, the Vice Chancellor for Facilities Planning inspected and accepted as of April 13, 1972, the work performed by the principal construction contractor for the Horse Arena Building, subject to the completion of a few minor items. The acceptance of the construction work performed by another contractor for the remainder of the Horse Center (horse barn, feed barn, research laboratory, and related utilities and site work) was acknowledged as of November 15, 1971. Revised semifinal budgets for both phases of work are shown below in comparison with the budgets reported to the Board on April 30, 1971, and September 7, 1971, respectively:

**Project Costs:**

a. Horse Barn, Feed Barn, Research Laboratory, Related Utilities and Site Work:

<table>
<thead>
<tr>
<th>Revised Budget 11/15/71</th>
<th>Original Budget 4/30/71</th>
<th>Increase (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Milton L. Powell &amp; Son Construction, Eugene</td>
<td>$ 211,720</td>
<td>$ 210,000</td>
</tr>
<tr>
<td>Professional service fees, including consulting work</td>
<td>27,213</td>
<td>30,000</td>
</tr>
<tr>
<td>Caretaker's trailer house</td>
<td>2,000</td>
<td>2,000</td>
</tr>
<tr>
<td>Construction supervision and miscellaneous costs, including site work</td>
<td>16,567</td>
<td>9,200</td>
</tr>
<tr>
<td>Contingencies</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Subtotals</strong></td>
<td>$ 257,500</td>
<td>$ 257,500</td>
</tr>
</tbody>
</table>

b. Horse Arena:

<table>
<thead>
<tr>
<th>Revised Budget 11/15/71</th>
<th>Original Budget 4/30/71</th>
<th>Increase (Decrease)</th>
</tr>
</thead>
<tbody>
<tr>
<td>F. G. Scott Construction Co., Salem</td>
<td>$ 171,415</td>
<td>$ 168,938</td>
</tr>
<tr>
<td>Donor-furnished material:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glue-lam beams</td>
<td>6,801</td>
<td>4,767</td>
</tr>
<tr>
<td>Roof sheathing</td>
<td>3,864</td>
<td>-</td>
</tr>
<tr>
<td>Professional service fees</td>
<td>5,377</td>
<td>9,087</td>
</tr>
<tr>
<td>Construction supervision and miscellaneous costs, including site work</td>
<td>5,043</td>
<td>5,567</td>
</tr>
<tr>
<td>Contingencies</td>
<td>-</td>
<td>5,041</td>
</tr>
<tr>
<td><strong>Subtotals</strong></td>
<td>$ 192,500</td>
<td>$ 192,500</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>$ 450,000</td>
<td>$ 450,000</td>
</tr>
</tbody>
</table>
(1) Includes costs for moving of a door, additional concrete slabs, additional gravel, the modification of horse waterers and other minor changes incorporated within five approved change orders.

(2) Includes fees for consultants, but excludes preliminary planning costs of $3,710 financed from interest earnings.

(3) Includes drainage work and other minor construction items not included in the prime contract.

(4) Includes credit for donated material; additional excavation work and compacted fill; construction of men's and women's restrooms, and other minor changes included within five approved change orders.

The entire complex was designed by Architects Morin-Longwood-Edlund of Eugene. The horse barn is of heavy timber construction and contains a gross area of approximately 9,053 square feet. Included are box stalls, tie stalls, office, shop, and tack rooms. The feed barn contains approximately 2,078 square feet and the research laboratory building, which is of wood and concrete block construction, contains approximately 4,339 square feet. For the total gross area of 15,470 square feet within this first construction phase, the direct construction costs, excluding $31,000 for road work, utilities and other site work, average about $11.68 per square foot.

The arena building is fully enclosed and constructed with tilt-up concrete walls and a wood roof supported by glue-laminated columns and beams and trussed joists. For the gross area of approximately 26,700 square feet, the direct construction costs, including donated materials but excluding $6,000 of site work, average about $6.59 per square foot.

The Horse Center project was financed from the resources tabulated below in the recapitulation.

RECAPITULATION UPON INSPECTION AND ACCEPTANCE

<table>
<thead>
<tr>
<th>Project - OSU Horse Center</th>
<th>Horse Center</th>
<th>Horse Arena</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architects - Morin-Longwood-Edlund, Eugene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Legislative authorization - Chapters 599 and 627, Oregon Laws 1965, and Chapter 645, Oregon Laws 1969</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Board's priority in 1969-1971 - No. 39 (Educational and General Plant)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approximate gross area</td>
<td>15,470 sq. ft.</td>
<td>26,700 sq. ft.</td>
<td>42,170 sq. ft.</td>
</tr>
<tr>
<td>Total project cost</td>
<td>$257,500</td>
<td>$192,500</td>
<td>$450,000</td>
</tr>
</tbody>
</table>
Estimated direct construction costs:
Total, including road work, utilities and other site work - $ 211,720 $ 182,080 $ 393,800
Total (buildings and fixed equipment) - 180,720 176,080 356,800
Average (per square foot) - 11.68 6.59 8.46

Financing plan:
General Fund appropriation within Section 1, Chapter 645, Oregon Laws 1969 $ 300,000
State Racing Commission receipts (Chapter 627, Oregon Laws 1965) 25,000
Self-liquidating bond borrowings or other balances available for auxiliary enterprises (Chapter 599, Oregon Laws 1965) 75,000
Gifts 50,000
Total $ 450,000

Board Discussion and Action
The Board accepted the report as presented.

Report of Appointment of Architects for Feasibility Study of Weatherford Hall Remodeling, OSU

Staff Report to the Board

Upon the recommendation of officials of Oregon State University, arrangements have been made for the professional services of York + Yodogawa, Architects, Portland, for a feasibility study of the proposed remodeling of Weatherford Hall, for which funds in the amount of $1,030,000 were authorized by the 1971 Legislature as part of the 1971-1973 capital outlay program applicable to auxiliary enterprises. The architects are to investigate the building as to its existing architectural, mechanical, and electrical features and propose alternative schemes and cost estimates for its continued use as a residence hall, including special requirements for the physically handicapped, compliance with all state and local codes, the living needs of student occupants, etc.

For their services, and those of their consultants, the architects are to be compensated on a time and materials basis not to exceed $11,000. The contract provides that in the event of the disability or incapacity of the architects, the firm of Norman and Stanich, also of Portland, will assume the rights and responsibilities of the architects upon the written request of the appropriate Board official.

Funds required for the feasibility study are being provided from balances available to the institution from housing operations.

Board Discussion and Action
The Board accepted the report as presented.
In accordance with the program approved earlier this year by the Board and the State Emergency Board, bids were received in Corvallis on April 13 for the construction of four one-bedroom apartments at the Yaquina Bay Marine Science Center. The quotations submitted by five contractors ranged from $56,129 to $71,433. Inasmuch as the lowest bid was very close to the architects' estimate and the direct construction cost allowance, a contract award was made and the following budget was approved for the project:

Direct construction costs - Johnston Constr. Company, Newport

- $ 56,129

- Professional services fees

- $ 6,736

- Construction supervision and miscellaneous costs

- 900

- Furnishings and equipment

- 5,035

- Contingencies (approximately 3.5 percent of direct construction costs)

- 2,000

Total

- $ 70,800

The total project costs of $70,800 correspond with the expenditure limitation requested and approved for these facilities. They constitute a portion of the Yaquina Bay Marine Science Center Improvements authorized by the 1969 Legislature in the total amount of $165,000.

Plans and specifications for the housing were prepared by Architects Hewlett, Jamison & Atkinson, Portland. As noted when the schematic design phase of planning was approved by the Board on January 24, 1972, these apartment units will accommodate approximately 16 single students during the Summer term and be rented to graduate assistants or other students or visiting staff during the remainder of the year.

The project is being financed from a gift of $50,000 from the Oregon State University Foundation and from balances of $20,800 available from housing operations at the institution.

RECAPITULATION UPON RECEIPT OF BIDS AND CONTRACT AWARD

- Project - OSU Yaquina Bay Marine Science Center Housing

- Architects - Hewlett, Jamison & Atkinson, Portland

- Legislative authorization - Chapter 664, Oregon Laws 1969

- Board's priority - No 26 in 1969-1971 (Auxiliary Enterprises)

- Estimated gross area:

  - Four living units - 2,688 square feet
  - Porches and wood decks - 1,016 square feet
Estimated direct construction costs:
  Total, including site development $ 56,129
  Total for four living units and built-in fixtures 48,000
  Average (per square foot) - $15.05

Tentative schedule;
  Contract award - May 1972
  Completion - July 1972

Financing plan;
  Gift from Oregon State University Foundation $ 50,000
  Balances available to the institution from housing operations 20,800
  Total $ 70,800

Board Discussion and Action

The Board accepted the report as presented.

Report of Bids and Contract Award for Oceanography Warehouse Building, OSU

In view of the receipt of a satisfactory bid on March 28, 1972, for the construction of a warehouse building within the complex of Oceanography Research Service Facilities at Oregon State University, a contract award was made and the following budget was approved for the project:

  Direct construction costs - Dale Ramsay Construction Co., Corvallis $ 22,899
  Physical Plant engineering and inspection costs 501
  Contingencies 600
  Total $ 24,000

This industrial-type metal building was authorized by the Board and by the State Emergency Board as part of the 1971-1973 capital outlay program. In combination with the budget requirements of $97,000 for the Core Laboratory and the Geophysics Laboratory reported previously, commitments have now been made for a total of $121,000 out of the statutory expenditure limitation of $200,000 for these research service facilities.

Funds for the planning and construction of the warehouse are being provided from indirect cost allowances from instructional and research contracts and grants (building use credits).

RECAPITULATION UPON THE AWARD OF CONTRACT

Project - OSU Oceanography Research Service Facilities

Engineering - OSU Physical Plant Department
Legislative authorization - Chapter 709, Oregon Laws 1971

Approximate gross area - 2,400 square feet

Estimated total project cost $24,000

Estimated direct construction costs:
Total Average (per square foot) - $9.54

Tentative schedule:
Contract award - April 1972
Completion - July 1972

Financing plan:
Indirect cost allowances from instructional and research contracts and grants (building use credits) $24,000

Board Discussion and Action

The Board accepted the report as presented.

Report of Bids and Contract Awards for Administrative Services Building, UO

Staff Report to the Board

In view of the receipt of satisfactory bids on May 3, 1972, for the Administrative Services Building at the University of Oregon, contract awards were made and construction was authorized within the expenditure limitation of $2,950,000 authorized by the 1971 Legislature. The bids may be summarized as follows:

<table>
<thead>
<tr>
<th>Class of Work</th>
<th>Number of Bids</th>
<th>Low Bid</th>
<th>High Bid</th>
</tr>
</thead>
<tbody>
<tr>
<td>General work</td>
<td>6</td>
<td>$1,662,000</td>
<td>$1,828,341</td>
</tr>
<tr>
<td>Mechanical work</td>
<td>7</td>
<td>468,066</td>
<td>596,196</td>
</tr>
<tr>
<td>Electrical work</td>
<td>5</td>
<td>143,957</td>
<td>183,402</td>
</tr>
</tbody>
</table>

It was not necessary to exercise any of the deductive bid alternates.

The following budget was approved for the project:

Direct construction costs:
General work - Juhr & Sons, Oreg. Ltd., Portland $1,662,000
 Mechanical work - Chase Company Mechanical Contractors, Eugene
 Electrical work - Linnco Electric Co., Albany 143,957
Total direct construction costs $2,274,023
Professional services fees 180,000
Utility service connections 150,000
Furnishings and equipment 180,000
Landscaping 40,000
Construction supervision and miscellaneous costs 80,497
Contingencies (2 percent of direct construction costs) 45,480
Total project costs $2,950,000
The initial unit of the Administrative Services Building will be a four-story concrete structure with a three-story wing and partial basement. It will be located on the north side of Thirteenth Avenue, west of Agate Street, in close proximity to the Science complex, student residence halls and the Health Center. A complete description of the building and the proposed space allocations within it were outlined in the report made to the Board on March 28, 1972, following the acceptance of the construction documents phase of planning by Architects Wolff/Zimmer/Gunsul/Frasca/Ritter. Basically, the facilities will accommodate the transfer of staff from Emerald Hall, the "temporary" wood-frame structure used for the registrar, business office, admissions, and other student services. In addition, offices will be provided for the placement service and for student services research and support services.

For the gross area of approximately 80,558 square feet, the direct construction costs of $2,274,023 for the building and fixed equipment would average about $28.23 per square foot. The project budget of $2,950,000 is to be financed equally from the General Fund appropriation in Chapter 709, Oregon Laws 1971, and from the proceeds of bonds issued under the provisions of Article XI-G of the Oregon Constitution.

**RECAPITULATION UPON THE RECEIPT OF BIDS AND AWARD OF CONTRACTS**

**Project** - UO Administrative Services Building  
**Architects** - Wolff/Zimmer/Gunsul/Frasca/Ritter, Portland  
**Legislative authorization** - Chapter 709, Oregon Laws 1971  
**Board’s Priority in 1971-1973** - No. 3 (Educational and General Plant)  
**Approximate gross area** - 80,558 square feet  
**Estimated total project cost** - $2,950,000  
**Estimated total direct construction costs:**  
Total, including utility service connections and landscaping - $2,464,023  
Total for building and fixed equipment only - $2,274,023  
Average (per square foot) - $28.23  
**Tentative schedule:**  
Contract award - May 1972  
Completion - October 1973  
**Tentative financing plan:**  
General Fund appropriation - Chapter 709, Oregon Laws 1971 - $1,475,000  
General obligation bond borrowings under provisions of Article XI-G of Oregon Constitution - 1,475,000  
**Total** - $2,950,000  

**Board Discussion and Action**

The Board accepted the report as presented.
The Board minutes of September 8, 1970, record the acceptance of the schematic design phase of planning for the Mackenzie Hall and Administration Building Alterations at the University of Oregon Medical School for which legislative authorization was requested as part of the 1971-1973 capital outlay program. Subsequently, at the October 26, 1970, meeting, the Board approved a resolution in support of a federal grant proposal. It was anticipated at that time that the total project cost of about $2,315,000 would be financed from state funds of $1,155,000 and federal grants of $1,160,000 including $221,453 from the U.S. Public Health Service for the portion of the project applicable to the School of Nursing. The remaining grant funds were being requested from the Division of Physician Manpower. The total project was assigned priority No. 4 in the listing of educational and general plant requests presented to the 1971 Legislature.

During the deliberations of the Ways and Means Committee near the close of the regular Session, it became apparent that the only federal assistance likely to be received for the project would be approximately $263,000 from the U.S. Public Health Service Division of Nursing. Consequently, the total project cost was reduced to $526,000 to be funded equally from state funds and a federal grant for work relating to the School of Nursing. The project architects, Broome, Selig and Oringudolph, were asked to proceed with the design development phase of planning for the smaller project.

Institutional officials and the architects recently filed with the Board's Office a copy of the completed design development phase of planning for the proposed remodeling work contemplated in Mackenzie Hall for the School of Nursing. In general, the plans for the third and fourth floors were consistent with the approved schematic design applicable to these areas. The only major change is the provision for nursing student locker and lounge facilities on the first floor. This area, which formerly was used as a morgue, was expected to be assigned to laboratory storage but would provide a more useful facility as a lounge and locker room, thus permitting the removal of lockers now located in corridors. Other alterations within the first floor would include spaces for a new electrical room and additional toilet facilities. With the expansion of the facilities for the School of Nursing to the fourth floor, their present spaces on the third floor would be upgraded, including refurbishing and minor partition and door changes. Spaces on the fourth floor (vacated by the moving of microbiology teaching laboratories to the new Basic Science Building) are to be remodeled completely with new partitions and new floor and ceiling finishes. This area would provide faculty offices, administrative offices, secretarial spaces and student counseling and seminar rooms for the School of Nursing.
All new partitions are to be a demountable metal stud system finished with sheetrock and painted. New floors are to be vinyl asbestos tile and sheet vinyl with carpeting in some areas. Ceilings in the elevator lobby, reception lobby and hallway on the fourth floor are to be finished with spaced wood boarding mounted to a new sheetrock ceiling. All other ceilings on this floor are to be suspended acoustical tile capable of supporting demountable partition top plates and mechanical and electrical services. A new suspended acoustical tile ceiling is to be installed on the first floor, but the existing ceiling on the third floor is to be patched only. New doors and firedoors are to be installed where required.

Toilet rooms within the area to be remodeled are to have the fixtures replaced and new hollow metal partitions installed. Other plumbing work is to be limited to closing out or relocating lines no longer needed for vacated laboratories and installing new lines for a limited number of new sinks. All existing steam radiators and convector on the fourth floor will be removed and piping capped. Heat piping supplying the fifth floor will remain or be rerouted to conform to new partitions. A new rooftop air-conditioning unit will provide cooled air to the fourth floor with heating provided by hot water coils in the ductwork to maintain various zone temperatures. No heating changes are contemplated on the third floor which is heated by existing steam convector. A new fan unit located above the cellar of the new locker area at the first floor will be used to provide fresh air from the outside for this area. A steam coil in the unit will provide required heating.

The existing electrical power distribution system will be extended from a vault located in the Library to a new transformer located in the new electrical room in Mackenzie Hall first floor. New electrical wiring will be provided on the fourth floor and such modifications will be made on the first and third floors as are necessary to fulfill code requirements. New fluorescent lighting fixtures are contemplated in all remodeled spaces.

Replacement of the antiquated freight elevator with a new automatic elevator of greater safety and speed is also contemplated within the project budget. It will serve the five floors of Mackenzie Hall.

To meet code requirements and the specifications for the new elevator, it will be necessary to enlarge and alter the existing elevator penthouse on the roof.

The only new work contemplated to be visible from the exterior of the building is the replacement of existing wood double-hung and casement sash and frames with new treated wood windows.

Based upon the price level expected to prevail in September 1972 when it is expected that bids may be solicited for this project, the direct construction costs, including fixed equipment, are estimated to be approximately $448,000 and the total project budget is estimated to be $600,000. The increase above the statutory expenditure limitation of $526,000, if authorized by the State Emergency Board, would be
provided from the federal grant since the amount of the grant is now projected to be approximately $414,677. In the event the full amount of the grant application is approved, it may be possible to reduce the state fund requirements below the level of $263,000 contemplated in the legislative program. The Board's Office has received notification that the National Advisory Council on Nurse Training has recommended approval of the application, but an award has not yet been made by the U. S. Public Health Service.

The Board's Office has accepted the design development phase of planning for the proposed alterations to Mackenzie Hall and has authorized the project architects to proceed with the construction documents phase of planning based upon a direct construction allowance of $448,000. When such planning has been completed and federal grant funds have been assured, a request will be submitted to the State Emergency Board to authorize the remodeling work within the revised expenditure limitation of approximately $600,000. Thereafter, if satisfactory bids are received, a contract award will be made.

RECAPITULATION UPON THE COMPLETION OF THE DESIGN DEVELOPMENT PHASE

Project - UOMS Mackenzie Hall Alterations

Architects - Broome, Selig and Oringdulph, Portland

Legislative authorization - Chapter 709, Oregon Laws 1971

Board's Priority - No. 4 in 1971-1973 (Education and General Plant)

Approximate area to be altered - 11,205 sq. ft.

Estimated total project costs: $ 600,000

Estimated direct construction costs:
  Total $ 448,000
  Total excluding electrical service, elevator and window replacement $ 386,000
  (Cost per sq. ft. - $34.44)

Tentative schedule:
  Bidding - September 1972
  Completion - June 1973

Tentative financing plan:
  General Fund appropriation and Article XI-G bonding $ 185,323
  Federal grant funds from the U. S. Public Health Service $ 414,677
  Total $ 600,000

Board Discussion and Action

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, an eighteenth acquisition of land has been consummated. The transaction (No. 1-72) consisted of one parcel involving 45,065 square feet at a total price of $331,860.

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

Architects Wilmsen, Endicott, Greene, Bernhard & Associates of Portland have been commissioned to assist the staff of Portland State University in the design and construction supervision of the proposed remodeling of Lincoln Hall (formerly called Old Main) for which legislative authorization was granted in 1971. The work is expected to include major improvements to the mechanical and electrical systems within the building, the conversion of former science facilities in the lower floors into music and drama areas, the replacement of windows, and general refurbishing of the structure for use as a performing arts center and as a classroom and laboratory building.

Upon the assumption that the direct construction costs will be approximately $900,000, the professional services fee rate would be about 10.55 percent. If the construction cost is larger, the fee rate would be lower, but if the cost is smaller, the fee rate would be higher. The total expenditure limitation established for the project by the 1971 Legislature was $1,365,000, but of this amount, approximately $50,000 was applicable to furnishings and minor remodeling within the former Shattuck School building, leaving $1,315,000 for alterations within Lincoln Hall.

Funds required for the planning are being provided from the General Fund appropriation for capital outlay authorized by Chapter 709, Oregon Laws 1971.

Board Discussion and Action

The Board accepted the report as presented.
On April 30, 1971, the Board accepted the schematic design phase of planning for the proposed remodeling of the Smith Memorial Center at Portland State University which had been prepared with the assistance of Architects Wilmsen, Endicott, Greene, Bernhard & Associates. It was noted that the work would include alterations to selected areas within the basement, first and second floor levels as well as the development of a terrace on a portion of the roof. Subsequently, legislative authorization for the project was obtained within an expenditure limitation of $395,000. Of this amount, the State Emergency Board released $45,000 for the estimated requirements for reroofing the Center and other minor modifications. Separate bids were taken for the reroofing and for the revision of the loading dock on S.W. Harrison Street. The balance of $350,000 available from the statutory expenditure limitation is expected to be applied for the remainder of the remodeling within the building.

Institutional officials and the architects have filed with the Board's Office a copy of the design development phase of planning for the proposed alterations, including the following major components:

**Basement:**

a. Modification of two toilet rooms at the northeast section for use by the physically handicapped.

b. Rehabilitation of the corridors at the northwest and west sides including development of a vending area adjacent to the corridor near the recreation areas.

c. Relocation of the bookstore from the southeast to the northwest corner.

d. Addition of a freezer room within the kitchen storage area.

e. Construction of a new stairway in the southeast section to provide improved access to the lower level food service area from S.W. Harrison Street and the Viking Room on the main floor.

f. Provision of additional serving and bussing centers for the lower level food service area.

g. Minor modifications to the recreational areas and the barber shop.

**First (Ground) Floor**

a. Conversion of the north pair of entrance doors on S.W. Broadway to automatic operation for use by the physically handicapped and others.

b. Modifications of toilet rooms to provide facilities for the physically handicapped.
c. Removal of dishwashing equipment from area adjacent to the Scramble Bar, thus permitting additional seating within the Viking Room.

d. Revisions to Viking Room as a result of the new stairway to the Basement and the removal of the dishwashing equipment noted above.

Second Floor

a. Installation of dishwashing equipment salvaged from first floor into room 258 with such revisions as needed to reduce sound transmission to adjacent dining areas.

b. Modification of toilet rooms to accommodate the physically handicapped.

Third Floor

a. Conversion of doors to the bridges at both the north and south sides of the building to automatic operation.

b. Modification of toilet rooms to accommodate the physically handicapped.

It will be noted that the previous concept of a roof terrace has been abandoned and that emphasis has been placed upon modifications benefitting the physically handicapped. The slight change proposed in the location of the new stairway from that contemplated in the earlier planning stage would permit more efficient use of the dining areas in the Viking Room and on the lower level and would avoid the expense of installing an automatic sprinkler system in the Viking Room.

Assuming that bids for the remodeling can be solicited this Summer, it is estimated that the direct construction costs, including fixed equipment, would be approximately $202,775, averaging about $15.78 per square foot for the net assignable area of approximately 12,848 square feet. Funds for the project would be provided from self-liquidating bond borrowings under the provisions of Article XI-F(1) of the Oregon Constitution, or from balances available from commingled student building fees.

The Board's Office has accepted the design development phase of planning for the proposed Smith Memorial Center Remodeling at Portland State University and has authorized the project architects to proceed with the construction documents phase of planning based upon a direct construction cost allowance of $202,775. When such planning has been completed, it is expected that a request will be presented to the State Emergency Board to authorize the remainder of the remodeling work within the balance of $350,000 of the expenditure limitation. Thereafter, if satisfactory bids are received, a contract award will be made.
RECAPITULATION UPON COMPLETION OF THE DESIGN DEVELOPMENT PHASE

Project - PSU Smith Memorial Center Remodeling

Architects - Wilmsen, Endicott, Greene, Bernhard & Associates, Portland

Legislative authorization - Chapter 709, Oregon Laws 1971

Board's priority in 1971-1973 - No. 9 (Auxiliary Enterprises)

Approximate net area - 12,848 square feet

Estimated total project costs (net of $45,000 allotted previously for reroofing and minor alterations) $350,000

Estimated direct construction costs:
  Total (net of reroofing and other minor alterations contracted previously) $202,775
  Average (per net assignable square foot) - $15.78

Tentative schedule:
  Bidding - Summer 1972
  Completion - Winter 1972

Tentative financing plan:
  General obligation bond borrowings under provisions of Article XI-F(1) of the Oregon Constitution and/or balances available for auxiliary enterprises $350,000

Board Discussion and Action

The Board accepted the report as presented.

CONDITION OF BOARD'S UNAPPROPRIATED FUND AND SPECIAL RESERVES

As of May 22, 1972, for the Fiscal Year Ending June 30, 1972

I. Board's Unappropriated Fund

  Balance reported as of March 28, 1972 $26,856
  Less: OTI accreditation expense approved by the Board on March 28
  Balance estimated as of May 22, 1972 $24,256

II. Board's Reserve for Plant Rehabilitation

  Balance reported as of March 28, 1972 $126,170
  No change
  Balance estimated as of May 22, 1972 $126,170

By action of the Board on June 9, 1971, a maximum of $30,000 is reserved from the above total for plant rehabilitation funds for correction of the ventilation system in the University of Oregon Science Building, Second Addition.

Board Discussion and Action

The Board accepted the report as presented.
1. OEPBS Application for Federal Grant

On December 3, 1971, a proposal was filed with the Department of Health, Education and Welfare, Office of Education, Educational Broadcasting Facilities Program, to provide for purchase and installation of color film and color slide originating-broadcast capacity for the two-station network, and for purchase and installation of a translator station to be located in the vicinity of Hood River, Oregon.

Total project cost was estimated at $43,977 to be supported by a $32,982 federal grant, $10,995 in OEPBS funds.

We have been notified by HEW that our proposal is approved and that a federal grant will be allowed in the amount indicated.

The grant is separated, with $25,121 for use in the color equipment and installation, and $7,861 to be used for procurement and installation of the translator.

The translator portion of the project is based on agreement with Columbia Gorge TV, Inc., a non-profit citizens' activity which will assist in installation, provide through a lease agreement an appropriate location, and will provide equipment maintenance.

The color film and slide equipment will provide a first step in color-originating capacity for the stations. A proposal to be brought before the Committee at a later time will include a following phase involving color camera and color videotape equipment.

2. OEPBS Community Service Grant

The Corporation for Public Broadcasting is required to assist local stations or networks through the assignment of Community Service Grants determined on the basis of station or network operating budgets. OEPBS has been awarded a grant of $33,075 in accordance with a proposal filed by OEPBS on December 15, 1971.

Exhibit A, enclosed, details the OEPBS proposal, which was designed to meet CPB broad criteria for Station Upgrade, Development and Production and Programming and Production. The OEPBS proposal emphasized development of the Instructional Division, included allocation of grant funds to further Development and to special minority group programming.

The CPB grant is awarded on a network basis in Oregon and funds are applied to OEPBS as well as to the individual two stations.
Additional Community Service Grants are requested by OEPBS through funds available from National Public Radio for the two radio stations, KOAC-AM, KOAP-FM. It is expected that awards will be made in the $8,000 to $8,500 range for each station within the next several months. Criteria for National Public Radio grants are based on numbers of employees, hours, days and weeks of broadcast time during the pre-grant year. Top grant range is $15,000 and OEPBS is seeking to expand its services to meet the criteria for that award level. Unlike the CPB grants, radio grants are awarded to each station in Oregon.

3. Completion of KOAP-FM Improvement Project

Installation and operation-level status of a new transmitter and related equipment enabling KOAP-FM to extend stereo multiplex service and other improvements was completed in March 1972. This project, totaling $47,475 in expenditures, was supported by a federal grant under the HEW educational Broadcasting Facilities Program equaling 75 percent of the total project cost.

4. Disposal of Former Westinghouse Property and Equipment

At the meeting of the Board on March 28, 1972, approval was given following the recommendation of the Public Services Committee to declare this property and equipment surplus and to proceed with disposal. As a first step, an equipment inventory has been prepared, and arrangements for two independent appraisals have been made.

See separate item on a preceding page regarding disposal of property and equipment referred to above.

5. In January 1972, OEPBS began broadcasting a graduate level in-service credit course for Oregon teachers, Class Meetings and Schools Without Failure, prepared by Dr. R. Glasser through a California production organization. This series was procured by Portland Public Schools, and broadcast on both channels 10 and 7 in color, through cooperative film to tape production provided at no cost by commercial station KPTV in Portland.

Although by prior agreement of the production group, the course was approved for credit by LaVerne College, California, OEPBS through the Division of Continuation, made arrangements for credit approval, to be granted by Oregon College of Education.

Data on registrations for credit through the Division of Continuing Education are substantially complete at this time and indicate that more than 1,100 persons have registered and are taking the course for credit. Of these, approximately 500 have registered through the Division of Continuing Education paying a substantially higher per-credit-hour rate than required
by LaVerne College. Allowed are two credit hours on a quarter basis through the Division of Continuing Education and two semester hours through LaVerne College. Rates per-credit-hour are $41.00, DCE, and $35.00 LaVerne College.

Gross income from registrations for this course approximate $63,000. Registrations through the Division of Continuing Education have generated $20,746, of which approximately $8,200 is net to DCE. Course work evaluation, etc. is provided by the California enterprise, with a formula portion of gross income flowing from the Division of Continuing Education for that service.

OEPBS, through its Instructional Bureau, is currently in the process of developing additional credit course programming, working with the Division of Continuing Education and institutions toward that end. It is anticipated that by Fall term, 1972-73, at least three credit courses will be broadcast by television at graduate and undergraduate levels. Federal funds and private cooperative support for these projects are being pursued. In addition, a proposal is under preparation which will form the OEPBS application for funds from the Improvement of Undergraduate Instruction award program directed by Oregon's Educational Coordinating Council.

Dr. Donald Bryant has been named Director of the Oregon Educational and Public Broadcasting Service Instructional Division, presently through a contractual arrangement with the Division of Continuing Education.

6. Cultural, Public Affairs, Educational Enrichment Programming

In the OEPBS organizational design previously discussed with the Committee, formation of a State of Oregon Division was projected. This activity, similar to the Instructional Division in concept, is now developing as an adjunct programming planning and producing capacity, and as a partnership-generating capacity in respect to commercial broadcast, special-interest cultural associations and others.

Efforts of this activity in developing partnerships with commercial broadcasters, usually on a no-charge basis to OEPBS, for production assistance, tape recording, public service utilization of OEPBS programs by commercial outlets have been extremely gratifying and such cooperation could be equated in terms of dollars which probably would equal upward of $10,000.

In addition, program planning and actual production has involved this activity extensively in such areas as Oregon History, Arts and Humanities. It is also involved currently in development of a program series proposal to CPB and PBS (Public Broadcasting Service) for national funding and use relating to Young People in Music. It will shortly begin a similar proposal development in respect to Young People and the Environment, a series concept initiated for OEPBS by the President of PBS.
Mr. Luke Roberts has been named Director of the OEPBS State of Oregon Division.

7. Campaign for Excellence

In mid-March the fund-raising segment of the Campaign for Excellence was announced. Beginning with a membership program announcement, through the personal assistance of Bob Holmes and others, materials have been produced for both mailing and direct contact development appeals. In cooperation with the Oregon Council for Public Broadcasting and Friends of Public Broadcasting, a state-wide volunteer organization is being formed, with leadership centered in Salem, Eugene, Corvallis, Portland - currently, and in the near future in other areas of the state. These volunteer groups will assist in personal contact fund-raising and membership appeal efforts.

Initial mail appeals for membership contributions to individuals were sent out about ten days ago, and returns which are beginning to come in suggest some considerable acceptance of the campaign. On April 12, approximately 200 individual memberships had been registered with contributions ranging in the $10 to $15 membership category, some slightly higher. Corporate and foundation contact efforts are beginning with initial efforts producing contributions in the $3,000 range and equal pledge assurances.

Board Discussion and Action

The Board accepted the report as presented.
Following is a summary of operating budget savings during the third quarter and the cumulative savings to date toward the total one-percent savings for year 1971-72, as required in the original 1971-72 budget approved by the Board.

### UNIVERSITY OF OREGON

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<tr>
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<td>Savings Reported 2nd Quarter</td>
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<tr>
<td>Total Savings Reported</td>
<td>$21,707.00</td>
<td>$216,750.00</td>
<td>$21,707.00</td>
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### OREGON STATE UNIVERSITY

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<td>Savings Reported 2nd Quarter</td>
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<tr>
<td>Total Savings Reported</td>
<td>$213,988.00</td>
<td>$38,311.00</td>
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<td>$252,299.00</td>
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### PORTLAND STATE UNIVERSITY

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<td>Savings Reported 2nd Quarter</td>
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<tr>
<td>Total Savings Reported</td>
<td>$39,713.00</td>
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<tr>
<td>To Be Identified by June 30, 1972</td>
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- **Placement:** Salary, Classified Wages, OPE Savings
- **Counseling:** Salary & OPE
- **Personnel Service:**
  - Classified Wages & OPE
  - Institutional Research:
    - Classified Wages & OPE
  - Various Salary & OPE Savings

- **Total Savings Reported to Be Identified by June 30, 1972**
### REPORT OF IDENTIFIABLE SAVINGS

For the Third Quarter, Ending April 15, 1972  
Fiscal Year 1971-72

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<tr>
<th>OREGON COLLEGE OF EDUCATION</th>
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<th>2nd Quarter</th>
<th>3rd Quarter</th>
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<td>Decrease activity in reclassification</td>
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<td>-Library Books &amp; Binding:</td>
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<td>cut second priority periodicals &amp; selected books</td>
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<td>Total Savings Reported</td>
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<td>$ 24,562.00</td>
<td>$ 13,027.00</td>
<td>$ 52,327.00</td>
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<td>$ 3,069.00</td>
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<th>SOUTHERN OREGON COLLEGE</th>
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<tbody>
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<td>Total Savings Required</td>
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<td>$ 59,570.00</td>
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<tr>
<td>Savings Reported 1st Quarter</td>
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<td>Savings Reported 3rd Quarter</td>
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<tr>
<td>Total Savings Reported</td>
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<th>EASTERN OREGON COLLEGE</th>
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<td>Savings Reported 3rd Quarter</td>
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<td>Total Savings Reported</td>
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<td>$ 5,366.00</td>
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## REPORT OF IDENTIFIABLE SAVINGS

For the Third Quarter, Ending April 15, 1972
Fiscal Year 1971-72

<table>
<thead>
<tr>
<th></th>
<th>1st Quarter</th>
<th>2nd Quarter</th>
<th>3rd Quarter</th>
<th>TOTAL SAVINGS</th>
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<td>Savings Reported 3rd Quarter</td>
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<td>Total Savings Reported</td>
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<td>$ 30,706.00</td>
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<td>June 30, 1972</td>
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</table>

| UNIVERSITY OF OREGON MEDICAL SCHOOL |             |             |             |               |
| Total Savings Required | $ 16,485.00  |             |             | $ 65,940.00   |
| Savings Reported 1st Quarter |           |             |             |               |
| Savings Reported 2nd Quarter |           |             |             | $ 16,485.00   |
| Savings Reported 3rd Quarter |           |             |             |               |
| Deferred filling academic position & OPE |           | $ 16,485.00 |             | $ 49,455.00   |
| Total Savings Reported | $ 16,485.00  | $ 16,485.00 | $ 16,485.00 |               |
| To Be Identified by |             |             |             |               |
| June 30, 1972       |             |             |             | $ 16,485.00   |

| UNIVERSITY OF OREGON DENTAL SCHOOL |             |             |             |               |
| Total Savings Required | $ 5,871.00  |             |             | $ 23,432.00   |
| Savings Reported 1st Quarter |           |             |             |               |
| Savings Reported 2nd Quarter |           |             |             | $ 5,871.00    |
| Savings Reported 3rd Quarter |           |             |             |               |
| Transfer from Operating Reserve |           |             |             | $ 5,870.00    |
| Total Savings Reported | $ 5,871.00  | $ 5,871.00  | $ 5,870.00  | $ 17,612.00   |
| To Be Identified by |             |             |             |               |
| June 30, 1972       |             |             |             | $ 5,870.00    |

| TEACHING RESEARCH |             |             |             | $ 1,475.00    |
| Total Savings Required | $ 701.00  |             |             |               |
| Savings Reported 1st Quarter |           |             |             | $ 701.00      |
| Savings Reported 2nd Quarter |           |             |             | $ 774.00      |
| Savings Reported 3rd Quarter |           |             |             |               |
| Total Savings Reported | $ 701.00  | $ 774.00  |             | $ 1,475.00    |
| To Be Identified by |             |             |             |               |
| June 30, 1972       |             |             |             |               |
### REPORT OF IDENTIFIABLE SAVINGS

For the Third Quarter, Ending April 15, 1972
Fiscal Year 1971-72

<table>
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<tr>
<th></th>
<th>1st Quarter</th>
<th>2nd Quarter</th>
<th>3rd Quarter</th>
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<td>Savings Reported 3rd Quarter</td>
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<tr>
<td>Total Savings Reported</td>
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<td>$25,354.00</td>
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<td>$27,854.00</td>
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### SUMMARY, ALL INSTITUTIONS

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<td>Total To Be Identified by June 30, 1972</td>
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**Board Discussion and Action**

The Board accepted the report as presented.
## SUMMARY OF GIFTS AND GRANTS TO DATE FOR YEAR 1971-72

<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>
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<td>July 26, 1971</td>
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<td>$11,089,024.94</td>
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<td>September 7, 1971</td>
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(Above figure includes amount for Gracely Endowment reported in March)

(Above figure includes amount for Stout Endowment reported in May)
George W. Stout The will of March 31, 1964, of George W. Stout, deceased, of Oregon City provided that:

"I hereby give and bequeath unto the University of Oregon Medical School for Medical Research for heart disease and cancer all of the stock of Stout Motor Company, an Oregon corporation. The manner of the use of this bequest shall be left to the discretion of a committee composed of Dr. Howard Lewis, Dr. Kenneth Swan and Dr. I. C. Brill."

Members of the committee signed an "Exercises of Testamentary Discretion" as of March 1, 1971, to the effect that they were exercising fully and irrevocably their discretion as to the manner and use of the bequest by:

1. Directing that an endowment be established at the University of Oregon Medical School for research in heart disease and cancer, and

2. Directing that the principal of the endowment be held intact with the income only to be utilized for research in heart disease and cancer as the Dean of the Medical School determines will best serve the stated purposes of the bequest.

The executor bank of the will has conveyed all of the corporate stock of the Stout Motor Company to the Board. The assets of said company consisted primarily of a savings account and land and buildings at Oregon City, the net realized value of which amounts to $457,149, consisting of cash, real property, and contracts. An appropriate endowment account has been established.

The Board accepted the report as presented.
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 $138,339.25 from the following donors for scholarships and fellowships:

- Clarence W. Agsten Estate, through the U. S. National Bank of Oregon, Portland, $6,034.67
- Albright Memorial Scholarship, through the Oregon State University Foundation, Corvallis, $328.00
- The Alcoa Foundation, Pittsburgh, Pennsylvania, $800.00
- The American Legion, Lynn Canal Post No. 12, Haines, Alabama, $250.00
- American Society of Civil Engineers, Lake Grove, $332.00
- Frank E. Andrews Estate, (to provide The Naomi Catherine Andrews Endowment), Portland, $10,000.00
- Anonymous Donor, through the Oregon State University Foundation, Corvallis, $100.00
- Associated General Contractors, Oregon-Columbia Chapter, through the Oregon State University Foundation, Corvallis, $134.00
- The Autzen Foundation, Portland, $383.00
- Auxiliary to the Professional Engineers of Oregon, $362.00
- C. J. Bartlett Scholarship, through the Oregon State University Foundation, Corvallis, $166.00
- Bechtel Foundation, San Francisco, California, $999.00
- Bekins Scholarship Foundation, Los Angeles, California, $133.00
- Benton County Medical Auxiliary, Corvallis, $352.00
- Boeing Company, Seattle, Washington, $900.00
- Boise Cascade Foundation, Boise, Idaho, $747.00
- Bumble Bee Seafoods, Astoria, $166.00
- Bureau of Indian Affairs, Western Washington Agency, Everett, Washington, $887.00
- Canby Union High School Student Body, Canby, $100.00
- The Carpenter Foundation, through School District No. 6, Central Point, $515.00
- The Carpenter Foundation, through Phoenix High School, Phoenix, $264.00
- Central Lincoln People's Utility District, Newport, $328.00
- Dobie Children's Fund, through the Oregon State University Foundation, Corvallis, $170.00
- City Panhellenic Association, Portland, $166.00
- Cockerline Memorial Trust Fund, through the U. S. National Bank of Oregon, Salem, $333.32
- Cole, Clark, & Cunningham Scholarship, Portland, $333.00
- Colonial Dames of America, New York City, $325.00
Meeting #403-148

May 22, 1972

Adolph Coors Co., Denver, Colorado
Cornell University, through Oregon State University Foundation, Corvallis
Joe H. Crahane Memorial Scholarship, through the Oregon State University Foundation, Corvallis
Crater High School, Central Point
Crown Zellerbach Foundation, San Francisco, California
Marshall & Melissa Martin Dawes, through the Oregon State University Foundation, Corvallis
Del Monte Corporation, Portland
Lulu M. Demaray Fund, through the First National Bank of Oregon, Medford
Douglas County Home Extension, Roseburg
Douglas County Intermediate Education District, Roseburg
Electrical Women's Round Table, Oregon Chapter, Portland
Elks Lodge, Corvallis
Elks Lodge No. 1663, Lebanon
Elks Lodge No. 2105, Newport
Elks National Foundation, Chicago, Illinois
Engineering Minority Students, through the Oregon State University Foundation, Corvallis
Eureka Senior High School (Raice Scholarship Fund), Eureka, California
Evans Scholars Foundation, Western Golf Association, Golf, Illinois
Foundry Educational Foundation, Cleveland, Ohio
Freightliner Corporation, Portland
General Foods, Inc., White Plains, New York
General Motors Corporation, Detroit, Michigan
Georgia Pacific Foundation, Portland
The Grand Guardian Council of Oregon, International Order of Job's Daughters, Portland
Hilton and Carolyn Harris Foundation, Inc., Washington, D.C.
Louis W. & Maud Hill Family Foundation, St. Paul, Minnesota
Hollands Scholarship, through Oregon State University Foundation, Corvallis
Bud Horn Memorial Scholarship, through Oregon State University Foundation, Corvallis
International Brotherhood of Electrical Workers, Washington, D.C.
International Brotherhood of Pulp, Sulphite & Paper Mill Workers (John P. Burk Scholarship Award Fort Edward, New York
ITT Rayonier Foundation, Hoquiam, Washington
Jackson County Home Extension Unit
Mike Keck Award, through the Oregon State University Foundation, Corvallis
Keller Lumber Co., Roseburg
Peter Kiewit Sons' Co., Omaha, Nebraska
Mrs. James W. King (James W. King Memorial Scholarship), Lebanon

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Meeting #403-149

Ezra J. Kraus Memorial Fund, through the Oregon State University Foundation, Corvallis
Lamb-Weston, Inc., Portland
K. C. Li, Sr., Scholarship, through the Oregon State University Foundation, Corvallis
Lions Club, McMinnville
Mildred Litster Scholarship Trust Fund, through the U.S. National Bank of Oregon, Medford
Longview Fibre Co., Longview, Washington
Nadras Senior High School, Nadras
Jim McCall Memorial, through the Oregon State University Foundation, Corvallis
K. E. McKay of Coos Bay, Inc., Coos Bay
Walter Edwin and Edith McKay Davis Fund, Honolulu, Hawaii
Fort George G. Meade Officers' Wives Club, Fort George G. Meade, Maryland
Medford Senior High School, Medford
Miller Scholarship Fund, through the Oregon Bank, Portland
3-H Company, St. Paul, Minnesota
Miss America Pageant, Atlantic City, New Jersey
Miss Lincoln County Pageant, Inc., Toledo
Modern Woodmen of America, Rock Island, Illinois
NARF Scholarship Foundation, Cynwyd, Pennsylvania
The National Foundation, March of Dimes, Benton County Chapter, Corvallis
Native American Student Association, Corvallis
Navy Relief Society Educational Fund, Arlington, Virginia
The Norfolk Foundation, Norfolk, Virginia
North Douglas Parent-Teacher Association, Drain
Order of Eastern Star, Grand Chapter of Oregon, Corvallis
Oregon Congress of Parents & Teachers, Inc., Portland
Oregon Dairy Industries, Corvallis
Oregon Fryer Commission, Salem
Oregon Industrial Education Association, Philomath
Oregon Logging Conference, Eugene
Oregon Seed Trade Association, Lake Oswego
Oregon State Elks Association, Salem
Oregon State Horticulture Society, Corvallis
Oregon State University Book Stores, Inc., Corvallis
Oregon State University Dads' Club, Corvallis
Oregon State University Folk Club, Corvallis
Oregon State University Foundation, Corvallis
Oregon State University Mothers' Club, Hawaii Unit
Oregon State University Mothers' Club, Lebanon
Oregon Turkey Improvement Association, Corvallis
Pacific Egg & Poultry Association, Los Angeles, California
Pacific Power & Light Co., Eugene Water & Electric Board, Portland General Electric, through the Oregon State University Foundation, Corvallis

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Grant of $3,502 from the Archdiocese of Portland, Portland, to the Center for Educational Research and Services, "to provide consultive assistance to the Archdiocese of Portland," January 1 through April 1, 1972, under the direction of Dr. Keith Goldhammer, Dean of the School of Education.

Subgrant of $21,073, through Colorado State University, Fort Collins, Colorado, under a National Science Foundation grant for research entitled, "Patterns of Variation in Bird Populations in Grasslands and Their Role in Controlling Ecosystem Function," January 1 through December 31, 1972, under the direction of Dr. John A. Wiens, Associate Professor of Zoology.

Grant of $11,670 from the Educational Coordinating Council, Salem, for a training program in "Mass Media Utilization by Ethnic Minorities," February 1, 1972, through February 10, 1973, under the direction of Dr. Richard J. Weinman, Associate Professor of Speech Communication.

Gift of equipment, valued at $425, from Dr. Kenneth Grant, Corvallis, for use in the X-Ray Science and Engineering Laboratory. The gift consisted of therapy units and a lead-shielded operator's screen.

Gift of early American antiques, valued at $310, from Mrs. A. Isabella Holt, Portland, for display in the Horner Museum.

Gift of a collection of holographs and a silver turkey platter from Mrs. Curtis Holt, Portland. The holographs, valued at $135, are to be added to the Special Collections in the library; the platter, valued at $110, is for use in the president's residence.
N. S. Hughes

Gift of a Curtiss-Wright Rotating Combustion Engine with an electric generator, valued at $400, from Mr. Norman S. Hughes, Los Angeles, California, for use in the Department of Mechanical and Nuclear Engineering.

International Maize & Wheat Improvement Center

Grant of $16,600 from The International Maize and Wheat Improvement Center, Mexico City, Mexico, for research on the improvement of wheat, October 1, 1971, through December 31, 1972, under the direction of Dr. Joseph A. Rupert, Research Associate in Crop Science.

Lever Brothers Company

Gift of $675 from Lever Brothers Company, New York City, for the expenses of conducting a series of lectures, March 17, 1972, through June 30, 1973, under the direction of Dr. Charles O. Wilson, Dean of the School of Pharmacy.

National Aeronautics and Space Administration

Grants totaling $127,275 from the National Aeronautics and Space Administration, Washington, D.C., for research, equipment, and other purposes, as follows:

1. $75,000 - "The Development and Operation of an Environmental Remote Sensing Application Laboratory," April 1, 1972, through March 31, 1973, under the direction of Dr. Charles E. Poulton, Professor of Range Ecology.

2. $4,975 - For equipment in connection with the development of an "Inexpensive, Mobile Optical Radar System for Measurements of the Haze Layer in the Lower Atmosphere," July 1, 1971, through December 31, 1972, under the direction of Dr. Lars E. Olsson, Assistant Professor of Atmospheric Sciences, and Dr. E. Wendell Newson, Head of Atmospheric Science.

3. $47,300 - "Elemental and Isotopic Abundance Studies on Apollo Lunar Samples," February 1, 1973, through March 31, 1973, under the direction of Dr. Roman A. Schmitt, Professor of Chemistry.

National Science Foundation

Grants totaling $830,917 from the National Science Foundation, Washington, D.C., for research and other purposes, as follows:

1. $25,200 - "Rate of Conversion of Molecular Vibrational and Translational Energy," July 1, 1972, through December 31, 1974, under the direction of Dr. J. C. Decius, Professor of Chemistry.

2. $42,000 - "Role of Gene Products in Cell Growth and Morphogenesis," September 1, 1969, through September 30, 1974, under the direction of Dr. Ralph S. Quatrano, Assistant Professor of Botany.

3. $4,200 - "Raman Matrix Isolation Spectroscopy," March 1, 1971, through August 31, 1973, under the direction of Dr. Joseph W. Nibler, Assistant Professor of Chemistry.

4. $50,100 - "Laminar Structure in the Arctic Ocean," January 1, 1971, through October 31, 1973, under the direction of Dr. Victor T. Neal, Assistant Professor of Oceanography, and Dr. Stephen Neshyba, Associate Professor of Oceanography.
5. $30,300 - "To pay costs for salaries, wages, materials, and other expenses for research during the time Dr. Neal will be working with the U. S. Antarctic Research Program, and the Program for the Extension of Arctic Research in Physical Oceanography and Marine Geology," February 15, 1972, through February 14, 1973, under the direction of Dr. Victor T. Neal, Assistant Professor of Oceanography, and Dr. John V. Byrne, Acting Dean of Oceanography.

6. $52,600 - "Physiological Ecology of the Attached Diatom Assemblages of Yaquina Estuary, Oregon," June 1, 1972, through November 30, 1974, under the direction of Dr. C. David McIntire, Associate Professor of Botany.

7. $45,000 - "Mossbauer Investigations of Metal Ion Properties in Non-Crystalline Solids," June 1, 1972, through November 30, 1974, under the direction of Dr. H. Hollis Wickman, Associate Professor of Chemistry.

8. $33,000 - "Numerical Analysis of Fluorescence Decay and Sedimentation Equilibrium Data," June 1, 1972, through November 30, 1974, under the direction of Dr. Irvin Isenberg, Professor of Biophysics.

9. $12,480 - "Undergraduate Research Participation Project," March 31, 1972, through May 31, 1973, under the direction of Dr. Walter Loveland, Assistant Professor of Chemistry.

10. $11,000 - "Bilinear Control Processes," May 1, 1972, through October 31, 1973, under the direction of Dr. Ronald R. Mohler, Head of Electrical and Electronics Engineering.

11. $16,400 - "Bayesian Estimation of Multivariate Densities," July 1, 1971, through June 30, 1973, under the direction of Dr. Donald A. Pierce, Associate Professor of Statistics, and Dr. H. D. Brunk, Professor of Statistics.

12. $10,400 - "Division of Algebras and Algebraic Number Theory," June 15, 1971, through November 30, 1973, under the direction of Dr. Burton I. Fein, Associate Professor of Mathematics.

13. $30,000 - "Symbiotic Nitrogen Fixation," September 1, 1971, through February 28, 1974, under the direction of Dr. Harold J. Evans, Professor of Plant Pathology.

14. $6,200 - "For the purpose of obtaining information on the Carnegie Ridge for a Doctoral Dissertation by Mr. Bruce T. Malfait," May 1, 1972, through October 31, 1974, under the direction of Dr. T. H. van Andel, Professor of Oceanography.
15. $81,497 - "For the purchase and installation of equipment for use on the vessels Yaquina and Cayuse," March 15, 1972, through August 31, 1973, under the direction of Dr. Wayne V. Burt, Professor of Oceanography, and Captain E. B. Rittenhouse, Associate Professor of Oceanography.

16. $8,590 - "Epiphytic Lichens as an Indicator of Pollution in the Willamette Valley," March 3, 1972, through January 31, 1973, under the direction of Mr. Steve Carpenter, Student Project Director, and Dr. William C. Denison, Associate Professor of Botany, Project Advisor.

17. $35,000 - "Plant Hormone Metabolism and Mechanism of Auxin Action," April 1, 1970, through August 31, 1974, under the direction of Dr. Thomas C. Moore, Associate Professor of Botany.

18. $30,000 - "The Optical Properties of Carbohydrates II," May 1, 1971, through September 30, 1973, under the direction of Dr. W. Curtis Johnson, Assistant Professor of Biochemistry and Biophysics.

19. $58,750 - "For participant costs and other expenses under the Graduate Traineeship Program," February 23, 1972, through September 30, 1973, under the direction of Dr. H. P. Hansen, Dean of the Graduate School.

20. $1,000 - "Tidal Zone Ecology at Palmer Station, Anvers Island," December 1, 1969, through November 30, 1972, under the direction of Dr. Joel W. Hedgpeth, Director of the Marine Science Center.

21. $48,700 - "Structures, Dynamics, and Vibrational Potential Functions of Molecules," April 1, 1972, through September 30, 1973, under the direction of Dr. Kenneth W. Hedberg, Professor of Chemistry.

22. $198,500 - "Coastal Upwelling Experiment," July 1, 1971, through December 31, 1972, under the direction of Dr. Robert L. Smith, Associate Professor of Oceanography.

Grants totaling $20,500 from the Oregon State Board of Education, Salem, for training grants, and other purposes, as follows:

1. $7,500 - "Career Education: An Integral Part of Teacher Education," June 15, 1971, through June 30, 1973, under the direction of Dr. Henry Ten Pas, Director of Vocational and Adult Education.

2. $8,000 - "For the conduct of a leadership training program for selected counselors in Oregon," January 3 through October 1, 1972, under the direction of Dr. Glenn E. Clark, Associate Professor of Education.
### Oregon State University Foundation

Gift of 28,000 square feet of roof sheathing material, valued at $4,564, from the Oregon State University Foundation, Corvallis, to be used for the Horse Center.

### T. Thompson

Gift of live specimens, valued at $100, from Mr. Terry Thompson, Newport, to be used for display in a public aquarium. The gift consisted of lingcod, rockfish, greenling, sea bass, cabezon and a starfish.

### U.S. Atomic Energy Commission

Grants totaling $64,210 from the U.S. Atomic Energy Commission, Richland Operations Office, Richland, Washington, for research and other purposes, as follows:

1. **$21,210** - "Natural Convection Heat Transfer in Liquid Metals," April 1, 1972, through March 31, 1973, under the direction of Dr. James R. Welty, Professor of Mechanical Engineering.

2. **$21,000** - "Properties of Enzymes from Thermophiles and Halophiles," April 1, 1972, through March 31, 1973, under the direction of Dr. Robert R. Becker, Professor of Biochemistry.

3. **$22,000** - "Mutant Studies on the Photosystem II Portion of the Photosynthetic Process," January 1 through December 31, 1972, under the direction of Dr. Norman I. Bishop, Professor of Plant Physiology.

### U.S. Dept. of Commerce

Grants totaling $28,910 from the U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Washington, D.C., for research, as follows:

1. **$20,910** - "Chemical and Toxicological Studies of a Selective Fish Toxicant," April 1, 1972, through March 31, 1973, under direction of Dr. Leon C. Terriere, Professor of Biochemistry.

2. **$8,000** - "Larval Fishes in Ocean Waters Off Oregon," March 1 through April 31, 1972, under the direction of Dr. Sally Richardson, Research Associate in Oceanography.

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

Grants totaling $231,100 from the U.S. Department of Health, Education, and Welfare, Office of Education, Washington, D.C., for training programs and fellowships, as follows:

1. **$121,900** - "Expenses under the 1972-73 NDEA Title IV Graduate Fellowship Program," July 1, 1972, through August 31, 1973, under the direction of Dr. H. P. Hansen, Dean of the Graduate School.

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May 22, 1972

Grant of $35,187 from the U. S. Department of the Interior, Environmental Protection Agency, Washington, D.C., for research entitled, "Seafoods Processing Wastewater Characterization," November 1, 1971, through August 30, 1972, under the direction of Mr. Michael R. Soderquist, Instructor in Food Science and Technology.

Grants totaling $230,178 from the U. S. Public Health Service, Washington, D.C., April 1, 1972, through March 31, 1973, unless otherwise indicated, for research and other purposes, as follows:

1. $22,424 - "Analysis of the Sterol Components of Yeast," under the direction of Dr. Leo W. Parks, Professor of Microbiology.

2. $42,455 - "Histone-Nucleic Acid Interaction," under the direction of Dr. Irvin Isenberg, Professor of Biophysics.

3. $28,458 - "Metabolism and Carcinogenicity of Aflatoxins," under the direction of Dr. Donald J. Lee, Research Associate, Food Science.

4. $70,073 - "Metabolism and Cocarcinogenicity of Cyclopropenes," under the direction of Dr. Russell O. Sinnhuber, Professor of Food Science and Technology.

5. $50,048 - "Metabolism of Antineoplastic Agents," February 1, 1972, through January 31, 1973, under the direction of Dr. Donald J. Reed, Associate Professor of Biochemistry.

6. $16,720 - "To pay salary costs under a development award in behalf of Sonia R. Anderson," July 1, 1972, through June 30, 1973, under the direction of Dr. R. W. Newburgh, Chairman, Biochemistry and Biophysics.

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

Agricultural Research Foundation

$5,100 - "Hop Research," under the direction of Mr. S. T. Likens, Associate Professor of Chemistry.

$3,000 - "Research on mechanical sweet cherry harvesting," under the direction of Dr. D. A. Backus, Assistant Professor of Agricultural Engineering.

$488.08 - "A Study of Non-virus Diseases of Orchard Crops," under the direction of Dr. H. R. Cameron, Professor of Plant Pathology.

$1,500 - "Factors Affecting Growth, Flowering and Fruiting of Tree Fruits," and "Nutrition of Tree Fruit and Nut Crops," under the direction of Dr. M. H. Chaplin, Assistant Professor of Horticulture, and Dr. M. N. Westwood, Professor of Horticulture.
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May 22, 1972

Boeing Company

$20,000 - "Waste Processing Program at Boardman," under the direction of Dr. V. Van Volk, Associate Professor of Soils.

I. P. Callison & Sons, Inc.

$1,200 - "Control of Mint Diseases Research," under the direction of Dr. C. E. Horner, Professor of Plant Pathology.

Chevron Chemical Company

$300 - "Use of Ortho Paraquat for Weed Control in Established Asparagus," under the direction of Mr. T. P. Davidson, Assistant Professor of Horticulture.

Herman Frasch Foundation

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

ICI America, Inc.

$250 - "Integrated Control of Pests Attacking Horticultural Crops in Southern Oregon," under the direction of Dr. P. H. Westigard, Associate Professor of Entomology.

Wm. Leman, Inc.

$600 - "Control of Mint Diseases Research," under the direction of Dr. C. E. Horner, Professor of Plant Pathology.

Miller-Morton (A-H-Robbins)

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

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

$11,250 - "Effects of the Pulp and Papermill Effluent on Growth and Production of Fish," under the direction of Dr. C. E. Warren, Professor of Fisheries.

National Council for Stream Improvement

$7,500 - "Cooperative Research on Aquatic Biology," under the direction of Dr. C. E. Warren, Professor of Fisheries.

Oregon State Department of Agriculture

$11,204 - "Bacterial Crown Gall Studies," "Root Aphids and Virus Spread by Aphids," "Root Periodicity," under the direction of Dr. L. W. Moore, Assistant Professor of Plant Pathology; Dr. K. G. Swenson, Professor of Entomology; Dr. A. N. Roberts, Professor of Horticulture.

Oregon Fish Commission

$10,000 - "In support of the Oregon Cooperative Fisheries Unit," under the direction of Dr. Raymond Simon, Professor of Fisheries.

Oregon Game Commission

$5,000 - "In support of Cooperative Fishery Unit," under the direction of Dr. Raymond C. Simon, Professor of Fisheries.

Oregon Potato Commission

$7,000 - "Research for special programs of benefit to the Oregon Potato Industry," under the direction of Dr. T. L. Jackson, Professor of Soils; Dr. C. H. Ullery, Assistant Professor of Soils; Mr. P. D. Olson, Research Assistant in Agronomic Crops; and Dr. H. J. Jensen, Professor of Nematology.

Oregon Seed Council

$6,250 - "Oregon Field Burning Research and Field Sanitation," under the direction of Dr. D. O. Chilcote, Professor of Crop Physiology.
OSU Foundation $4,234 - "Douglas Fir Rooting Project," under the direction of Dr. A. N. Roberts, Professor of Horticulture.

The Orvis Company, Inc. $200 - "Wildlife Recreational Techniques," under the direction of Mr. Jay B. Long, Professor of Wildlife Ecology.

Stauffer Chemical Company $500 - "Control of Insects," under the direction of Dr. Ralph Berry, Assistant Professor of Entomology.

A.M. Todd Company $3,900 - "Control of Mint Diseases," under the direction of Dr. C. E. Horner, Professor of Plant Pathology.

U.S. Dept. of Agriculture $684.20 - "Filbert Production Experiments," under the direction of Dr. S. B. Apple, Jr., Professor of Horticulture.

$1,082.52 - "Farm Research Concerning the Berry and Nut Harvest," under the direction of Dr. S. B. Apple, Jr., Professor of Horticulture.

$3,000 - "Cause, Prevention, and Correction of Degenerative Myopathy," under the direction of Dr. J. A. Harper, Professor of Poultry Science.

University of Oregon

Scholarships & Fellowships Gifts totaling $19,555.25 from the following donors for scholarships and fellowships:

- The Albina Page Fund, Salem $800.00
- Alpha Omega Foundation, Incorporated, Berkeley, California 452.25
- America's Junior Miss Scholarship Foundation, Mobile, Alabama 492.50
- The Carpenter Foundation, through School District No. 6, Central Point 299.00
- The Carpenter Foundation, through Medford Senior High School, Medford 1,015.00
- The Carpenter Foundation, through Phoenix High School, Phoenix 198.00
- Council of American Women's Clubs, Baden-Wurttenberg District, Germany 250.00
- Lulu M. Demaray Scholarship Fund, through the Oregon State University Foundation, Corvallis 167.00
- Karl John Douglas Scholarship Fund, Oakridge 120.00
- The Fraternal Order of Eagles, Bradenton, Florida 500.00
- Elks Lodge No. 1584, Grants Pass 125.00
- Eugene Symphony Association, Eugene 1,070.00
- Evans Golf Scholarship, Golf, Illinois 4,820.50
- First Christian Church, Salem 164.00
- Commonwealth of Massachusetts Scholarship Aid Program, Boston, Massachusetts 200.00
- Gamma Phi Beta, Eugene 100.00
- Georgia-Pacific Foundation, Portland 1,500.00
- Martin Luther King, Jr., Fund, Portland 507.00
- K. E. McKay of Coos Bay, Inc., Coos Bay 125.00
- Moss, Adams & Co., Seattle, Washington 500.00
Meeting #403-159

May 22, 1972

<table>
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<tr>
<th>Organization</th>
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<tr>
<td>Mu Phi Epsilon, Eugene</td>
<td>$450.00</td>
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<td>North American Rockwell, El Segundo, California</td>
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<td>Northeast Missouri State College, Kirksville, Missouri</td>
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<td>Oregon Congress of Parents and Teachers, Inc., Portland</td>
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<tr>
<td>Portland Rose Festival Association, Portland</td>
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<td>Professional Baseball College Scholarship Plan, New York City</td>
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<td>Rockefeller Foundation, New York City</td>
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<td>Seattle Model City Program, Seattle, Washington</td>
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<td>Oregon State University Foundation, Corvallis</td>
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<td>South Eugene High School, Eugene</td>
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<td>Max D. Tucker Scholarship Fund, through the U.S.</td>
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<td>University of Massachusetts, Amherst, Massachusetts</td>
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Morrison, Bailey, Dunn, Cohen & Miller Trust Lawyer Account, Portland, for deposit in the American College of Trial Lawyers Account, for use under the direction of Mr. W. N. McLaughlin, Director of Business Affairs.

National Science Foundation Grants totaling $701,086 from the National Science Foundation, Washington, D.C., for research, training programs, and other purposes, as follows:

1. $52,875.00 - "Nine Continuation Graduate Traineeships," September 1, 1972, through August 31, 1973, under the direction of Mr. Calvin W. Fisk, Assistant to the Dean of the Graduate School.

2. $14,300 - "Rings and Forms," July 1, 1972, through December 31, 1973, under the direction of Dr. D. K. Harrison, Professor of Mathematics.

3. $45,600 - "Molecules with Novel Pi-Electron Systems," July 1, 1972, through December 31, 1973, under the direction of Dr. Virgil Boekelheide, Professor and Head of the Department of Chemistry.

4. $5,500 - "Finite Permutation Groups and Finite Geometries," July 1, 1972, through December 31, 1973, under the direction of Dr. William M. Kantor, Associate Professor of Mathematics.
5. $33,000 - "Inelastic Two and Three Photon Scattering from Biological Polymers," June 1, 1972, through November 30, 1973, under the direction of Dr. Warner L. Peticolas, Professor of Chemistry.

6. $30,000 - "Enzymatic Addition of the PCPCDA Group To Transfer RNA," May 1, 1972, through October 31, 1973, under the direction of Dr. Edward Herbert, Professor of Chemistry.

7. $26,630 - "For support of an Undergraduate Research Participation Program," April 1, 1972, through May 31, 1973, under the direction of Dr. Charles B. Kimmel, Assistant Professor of Biology.

8. $10,410 - "Undergraduate Research Participation," April 1, 1972, through May 31, 1973, under the direction of Dr. Thomas W. Koenig, Associate Professor of Chemistry.

9. $40,000 - "Topological Labeling of Biological Surfaces," April 1, 1972, through September 30, 1974, under the direction of Dr. O. Hayes Griffith, Professor of Chemistry.

10. $33,700 - "Compositional Variations in Columbia River Basalts and Related Rocks," April 1, 1972, through September 30, 1973, under the direction of Dr. Gordon G. Goles, Associate Professor of Geology.

11. $8,500 - Publication of "Maya Cities - Place Making and Urbanization," April 1, 1972, through March 31, 1974, under the direction of Dr. George F. Andrews, Professor of Architecture.

12. $41,100 - "Theory of Molecular Excitons and Primary Photo-Chemical Processes," August 1, 1972, through December 31, 1974, under the direction of Dr. Michael R. Philpott, Assistant Professor of Chemistry.

13. $71,300 - "Studies of Electronic Scattering, Bonding and Band Structure in Metallic Alloys and Compounds," April 1, 1972, through September 30, 1974, under the direction of Dr. Douglas H. Lowndes, Assistant Professor of Physics.

14. $2,121 - "For support of foreign participant in 1970-71 Academic Year Institute in Mathematics for Secondary School Teachers," under the direction of Dr. A. F. Moursund, Professor of Mathematics.

15. $142,000 - "Applications of Cryogenic Techniques to Problems in Air Pollution," March 1, 1972, through August 31, 1973, under the direction of Dr. Russell Donnelly. Professor and Head of the Department of Physics.

16. $11,200 - "Solvable Group Theory," July 1, 1972, through December 31, 1973, under the direction of Dr. Gary M. Seitz, Assistant Professor of Mathematics, and Dr. Charles R. B. Wright, Associate Professor of Mathematics.
17. $3,200 - "The Representation Theory of Finite Groups," June 1, 1972, through December 31, 1973, under the direction of Dr. Charles W. Curtis, Professor and Head of Mathematics.

18. $35,000 - "Self-Association of Protein and Its Modifications by Heavy Metal Binding," March 1, 1972, through August 31, 1974, under the direction of Dr. F. J. Reithel, Professor of Chemistry.

19. $27,900 - "Reactive Radical Pairs," March 1, 1972, through February 28, 1973, under the direction of Dr. Thomas W. Koenig, Professor of Chemistry.


22. $700 - "Institutional Allowance on Behalf of Lawrence L. Mitchell, Mathematics," September 1, 1971, through September 1, 1972, under the direction of Mr. Calvin Fisk, Assistant to the Dean of the Graduate School.

**Oregon Museum of Science and Industry**

Grant of $2,250 from the Oregon Museum of Science and Industry, Portland, "for the services of Dr. Eugene Maier in connection with the Oregon Museum of Science and Industry's Systems Approach Grant," for the academic year 1971-72, under the direction of Dr. Eugene Maier, Professor of Mathematics.

**Oregon State Board of Education**

Grant of $9,000 from the Oregon State Board of Education, Salem, "for a study on the success of former special education students to aid in meeting the needs of present students," under the direction of Dr. Andrew Halpern, Associate Professor of Special Education.

**Gracely Bequest**

Bequest of $3,244.73 representing additional proceeds from the estate of Ruth Lorraine Close Gracely, to be used for music fellowships and scholarships, under the direction of Dean R. Trotter, School of Music.

**State of North Dakota**

Grant of $1,250 from the Department of Public Instruction, State of North Dakota, Bismarck, North Dakota, "to provide the second half of a support grant for a graduate student enrolled in special education," September 23, 1971, through June 10, 1972, under the direction of Dr. Herbert Prehm, Acting Head, Special Education.

**State of Oregon**

Grant of $648.30 from the State of Oregon, Legislative Interim Committee on Alcohol and Drugs, Salem, for research entitled, "Marijuana Use, Costs and Attitudes," March 1 through June 30, 1972, under the direction of Dr. Shirley Terreberry, Associate Professor of Community Service and Public Affairs.
Grant of $2,050 from the State of Washington, Office of the Superintendent of Public Instruction, Olympia, Washington, representing a subgrant to provide a stipend, staff supervision, and related costs in connection with Stillman Wood, Graduate Intern in Special Education, March 29 through June 21, 1972, under the direction of Dr. Earl Brabandt, Assistant Professor of Education.

Grant of $1,000 from Teacher Inservice Programs and Services, Eugene, for "Developing and Field-Testing Materials for Educational Development Agencies for self-instruction or packaged instruction in short-term courses," August 1, 1971, through June 30, 1972, under the direction of Dr. John Hansen, Associate Professor of Education.

Grants totaling $580,971 from the U.S. Department of Health, Education and Welfare, Washington, D.C., for training programs, fellowships, and other purposes, as follows:

1. $1,954 - "Supplemental funds in support of Teacher Corps In-Service Training Program (Fifth Cycle-Second Year)," April 1, 1970, through June 30, 1972, under the direction of Dr. Stanley Cohen, Associate Professor of Education.

2. $27,000 - "For support of Library Fellowship Program," July 1, 1972, through August 31, 1973, under the direction of Mr. Calvin Fisk, Assistant to the Dean of the Graduate School.

3. $1,744 - "Supplementary Funds for Rehabilitation Counseling Training Program," September 1, 1971, through August 31, 1972, under the direction of Dr. Harold W. James, Assistant Professor of Education.

4. $8,773 - For a short-term training program entitled, "Rehabilitation Beyond Drug Use," March 15 through August 31, 1972, under the direction of Dr. Harold W. James, Assistant Professor of Education.

5. $250,000 - "In continued support of the University of Oregon Research and Training Center," March 1, 1972, through February 28, 1973, under the direction of Dr. Andrew Halpern, Associate Professor of Education.

6. $291,500 - "NDEA Title IV Graduate Fellowship Program," July 1, 1972, through August 31, 1973, under the direction of Mr. Calvin Fisk, Assistant to the Dean of the Graduate School.
Grants totaling $324,759 from the U.S. Public Health Service, Washington, D.C., for research, fellowships, and other purposes, as follows:

1. $5,600 - "Predoctoral fellowship award on behalf of Gerald D. Maxwell," April 1, 1972, through March 31, 1973, under the direction of Dr. James Weston, Associate Professor of Biology.

2. $58,041 - "Interaction of Nucleotides and Proteins." April 1, 1972, through March 31, 1973, under the direction of Dr. John Schellman, Professor of Chemistry.

3. $30,610 - "The Synthesis of Echitamine and Related Alkaloids," April 1, 1972, through March 31, 1973, under the direction of Dr. Lloyd J. Dolby, Professor of Chemistry.

4. $53,856 - "Endocrine Regulation Comparative Studies," March 1, 1972, through February 28, 1973, under the direction of Dr. Bradley T. Scheer, Professor of Biology.

5. $7,274 - "Peripheral Discriminability and Apparent Movement," March 1, 1972, through February 28, 1973, under the direction of Dr. Jacob Beck, Professor of Psychology.

6. $124,933 - "Graduate Training in Molecular Biology," July 1, 1972, through June 30, 1974, under the direction of Dr. Peter H. von Hippel, Director, Institute of Molecular Biology.

7. $29,520 - "Control and Mechanism of Protein Chain Termination," May 1, 1972, through April 30, 1973, under the direction of Dr. John Menninger, Research Associate, Institute of Molecular Biology.

8. $14,925 - "Correlation of Structure and Function in Muscle," February 1 through August 31, 1972, under the direction of Dr. Graham Hoyle, Professor of Biology.

Gift of a multiplex display panel unit, valued at $100, from the University of Oregon Co-op Book Store, Eugene, for use in Architecture and Allied Arts.

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

R. Bacon
Approximately 150 titles, valued at $158, from the private library of Mr. Roger Bacon, Murray, Utah. The selections are principally in the fields of American and English Literature.

H. Brookman
Books, periodicals and related materials from the field of architecture, from Mr. Herman Brookman, Larkspur, California. The gift is valued at $1,150.

H. J. Capell
Standard sets of popular authors or collections, valued at $1,350, from the private library of Dr. H. J. Capell, Tacoma, Washington.
Meeting #403-164

Mrs. R. O. Case  
Correspondence files, valued at $500, from Mrs. Robert Ormond Case, Beverly Hills, California, representing correspondence of her husband and herself with the literary agency of Brandt and Brandt.

R. J. Collins  
Motion picture and television scripts and related materials, valued at $4,770, from Mr. Richard J. Collins, Burbank, California. Mr. Collins is a Hollywood producer.

The Rev. Mrs. C. Dawson  
Selections of volumes from the personal library of The Rev. Mrs. Carley Dawson, Washington, D.C. The gift is valued at $655 and includes many fine and rare books in art, literature, and history.

Mr. & Mrs. E. S. Hader  
Gift of original art work, sketches, dummies and notebooks, valued at $21,265, from Mr. and Mrs. Elmer S. Hader, Nyack, New York. Mr. and Mrs. Hader are children's authors and illustrators.

Mrs. G. Harris  
Manuscripts, correspondence, original art work, and related materials, including manuscripts for six books by her mother, Mrs. Ruth Gipson Plowhead, a Northwest author of books for children, from Mrs. George Harris, Boise. The gift is valued at $2,925.

Mrs. A. D. Jeter  
Records and albums of classical and popular music, collected over many years by Dr. Lewis D. Clark, Salem, from Mrs. Anna D. Jeter, Salem. The gift is valued at $2,925.

Mr. & Mrs. E. C. Kemp  
Current American fiction and nonfiction, valued at $432, from Mr. and Mrs. Edward C. Kemp, Eugene.

Mrs. I. Langley  
Correspondence, manuscripts, publications and files of W. A. Langille, a forester in the Pacific Northwest and Alaska, from his daughter, Mrs. Ivan Langley, Portland. The gift is valued at $455.

A. Lenniger  
Correspondence received by the Lenniger Literary Agency from clients from Mr. August Lenniger, Thornwood, New York. The gift is valued at $5,625.

Mrs. M. Miller  
Manuscripts, notebooks, scrapbooks, and correspondence from the files of Max Carlton Miller, from Mrs. Max Miller, La Jolla, California. The gift is valued at $10,750.

Mrs. A. L. Noel  
Sketches, plans, renderings, and photographs from the work of Auguste L. Noel, from Mrs. Noel, New York City. The gift is valued at $465.

Mrs. H. O'Connor  
Professional files and personal files of her husband from Mrs. Hope O'Connor, Cambridge, Massachusetts. He was a former New York Times journalist and the gift is valued at $6,580.

Miss B. Pinkerton  
Additional correspondence and story outlines by Robert and Kathrene Pinkerton, from their daughter, Miss Bobb Pinkerton, New York City. The gift is valued at $1,925.

J. L. Powell  
Approximately 50 titles, valued at $192.85, from Dr. J. L. Powell, Eugene, for addition to the Science Library. These selections are in the field of general physics and thermodynamics.
Meeting #403-165

Mrs. J. C. Rettie
Professional papers, working manuscripts and files of Mr. James C. Rettie, a forest-economist working in the Pacific Northwest, from Mrs. Rettie, Arlington, Virginia. The gift is valued at $2,121.45.

P. P. Scott
Sketches, etchings, drawings, proofs, and correspondence, valued at $900, from Mr. Peter Pogany Scott, Los Angeles, California.

H. R. Stearns
A large collection of phonograph records, and the professional correspondence, scrapbooks, business files, and the personal photographs and mementos of Henry R. Stern, an American composer and song writer. The gift is from his son, Mr. Henry R. Stearns, Pasadena, California, and is valued at $1,755.

Mrs. W. H. Stephenson
The library of approximately 7,400 volumes assembled by Professor Emeritus Wendell Holmes Stephenson, from Mrs. Stephenson, Salem. The gift includes many outstanding works in the field of American, and especially Southern history, and is valued at $8,731.

Mrs. B. J. Stern
Correspondence and other materials assembled by Mr. Bernhard J. Stern, from Mrs. Stern, New York City. Mr. Stern was a prominent American sociologist of the 1930's and the gift is valued at $3,750.

U.S. Forest Service
Photographs, valued at $9,703.65, from Mr. Herman Kupplar, Portland, as representative of the Pacific Northwest Region of the U. S. Forest Service, to be added to the Map Library. The gift consists of 10,772 photographs of the Malheur National Forest (1965).

U.S. Dept. of Transportation
A group of county highway maps containing 969 sheets of Montana, Idaho, Washington, and Oregon, from the U. S. Department of Transportation Design Section, Vancouver, Washington, to be used in the Map Library. The gift is valued at $241.25.

Miss V. Venable
Manuscripts for novels, short stories and plays, related working correspondence and working files of William Jourdan Rapp, American playwright, novelist, journalist, editor and radio dramatist, from Miss Virginia Venable (Mrs. William Jourdan Rapp), New York City. The gift is valued at $6,200.

Mrs. I. T. Wiener
Working files, correspondence, drawings, blueprints, specifications, preliminary studies, and related materials from the professional files of Paul Lester Wiener, noted American architect and city planner, from Mrs. Wiener, New York City. The gift is valued at $27,500.

K. Wilkinson
Professional correspondence from Mr. Kirk Wilkinson, Wellfleet, Massachusetts. Mr. Wilkinson served as Art Editor of Woman's Day magazine. The gift is valued at $605.

D. J. Wilson
Legislative papers, files, constituent correspondence for the period 1965-68, from Mr. Donald J. Wilson, Eugene, representing the time of his service in the Oregon Legislature. The gift is valued at $750.

Mrs. M. F. Woodbury
Many rare and varied volumes from the personal library of Robert Morse Woodbury, noted sociologist and economist from Mrs. Mildred Fairchild Woodbury, Bryn Mawr, Pennsylvania. The gift is valued at $8,457.
Gifts to the Museum of Art:

American Academy of Arts and Letters
Painting by Manuel Ayaso entitled, "Elegy," in gold point and watercolor, from the American Academy of Arts and Letters (Childe Hassam Fund), New York City. The gift is valued at $1,200.

Mrs. J. Kittridge
Chinese porcelain vase, valued at $500, from Mrs. Josephine Kittridge, Eugene. The vase is from the Yung Cheng or early Ch'ien Lung period and is decorated with a scene of "Court Ladies at Play."

Mr. & Mrs. Paul Kleinsorge
Silkscreen print by Leonard French, an Australian artist, entitled "The Wharf," from Mr. and Mrs. Paul L. Kleinsorge, Eugene. The gift, valued at $125, completes the suite of ten entitled "The Journey."

E. Sheehan

University of Oregon Dental School

Oregon Foundation for Dental Research and Development
Grant of $7,000 from the Oregon Foundation for Dental Research and Development, Portland, as a supplemental award to bring the total transmitted for the Dental Health Education Kit Project to $11,000, under the direction of Dr. Fred M. Sorenson, Director of Clinics. The gift included cash and equipment for the project.

U. S. Public Health Service
Grants totaling $57,483 from the U. S. Public Health Service, Washington, D.C., for research, March 1, 1972, through February 28, 1973, as follows:

1. $34,866 - "Analysis of Longitudinal Face and Dentition Data," under the direction of Dr. Bhim S. Savara, Chairman, Child Study.

2. $22,617 - "Gingival Tissue Fibrinolysis and Heparin," under the direction of Dr. Oscar N. Lucas, Professor, Oral Biology.

University of Oregon Medical School

Gifts totaling $5,094.25 from the following donors for scholarships and fellowships:

- The Albina Page Fund, Salem $1,500.00
- Alumni Association, University of Oregon Medical School, Portland $2,000.00
- Drain Plywood Company, Drain 333.00
- Fraternal Order of Eagles, Oregon State Aerie, Salem 250.00
- Mr. William Fife, Palo Alto, California 500.00
- Leukemia Association of Oregon, Inc., Portland 311.25
- P.E.O. Sisterhood, Oregon State Chapter, Portland 100.00
- Dr. Clay A. Racely, Eugene 100.00
ABC Electric Corporation  Gift of $200 from the A B C Electric Corporation, Portland, to be used for cancer research, under the direction of Dean Charles N. Holman.

American Medical Education Foundation  Grant of $13,832.22 from the American Medical Education Foundation, Chicago, Illinois, "in continued support of the instructional and research programs at the Medical School," under the direction of Dean Holman.

Bausch and Lomb  Gift of $100 from Bausch and Lomb, Rochester, New York, to provide funds for an instrument stand to be used under the direction of Dr. Kenneth Swan, Professor and Chairman of the Department of Ophthalmology.

R. Berman  Gift of a German Shorthair dog, valued at $150, from Mr. Richard Berman, Portland, for use under the direction of Mr. Allan L. Rogers, Director, Animal Care.

Mrs. R. B. Bramble  Gift of $250 from Mrs. R. B. Bramble, Auburn, Washington, to the Urology Department, for use under the direction of Dr. Clarence V. Hodges, Head of the Department of Urology.

L. Christensen  Gift of $500 from Dr. L. Christensen, Portland, to the Ophthalmology Argosy Fund, under the direction of Dr. Kenneth Swan, Professor and Chairman of the Department of Ophthalmology.

Paul A. and Lisa M. Cibis Charitable Trust  Gift of $300 from the Paul A. and Lisa M. Cibis Charitable Trust, through the St. Louis Union Trust Company, St. Louis, Missouri, "to be expended for instruments selected by Dr. Andrea Cibis Tongue," under the direction of Dr. Kenneth C. Swan, Chairman of the Department of Ophthalmology.

Doernbecher Hospital Guild  Gift of $9,157.50 from the Doernbecher Hospital Guild, Portland, to be distributed as follows: $4,200, Pediatrics Bacteriology Laboratory; and $4,957.50, Chi Omega Pediatrics Laboratory; under the direction of Dr. Richard W. Olmsted, Professor and Chairman of Pediatrics.

Elks Lodges  Gifts totaling $4,618.52 from the following Elks Lodges, for the purchase of various items of equipment to be used in the Department of Ophthalmology, under the direction of Dr. Kenneth Swan, Professor and Chairman of the Department of Ophthalmology:

<table>
<thead>
<tr>
<th>Elks Lodge</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elks Lodge No. 1371, Bend</td>
<td>194.50</td>
</tr>
<tr>
<td>Elks Lodges, Bend and Madras</td>
<td>225.00</td>
</tr>
<tr>
<td>Elks Lodge No. 1934, Brookings</td>
<td>130.00</td>
</tr>
<tr>
<td>Gateway Elks Lodge No. 2411, Portland</td>
<td>2,006.15</td>
</tr>
<tr>
<td>Elks. Lodge No. 450, Forest Grove</td>
<td>212.69</td>
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<tr>
<td>Elks Lodge, Ontario</td>
<td>958.80</td>
</tr>
<tr>
<td>Elks Lodge No. 1814, Prineville</td>
<td>207.00</td>
</tr>
<tr>
<td>Elks Lodge, Salem</td>
<td>395.00</td>
</tr>
<tr>
<td>Elks Lodge No. 1972, Sweet Home</td>
<td>289.38</td>
</tr>
</tbody>
</table>
Gift of $500 from Mr. Agnar Jordanger, Bonanza, "in support of programs of the Department of Ophthalmology," under the direction of Dr. Kenneth Swan, Professor and Chairman, Department of Ophthalmology. The gift is to be distributed as follows: $250 for research and $250 for needy patients.

Gift of $300 from the Portland Academy of Pediatrics, Portland, for the pediatric library fund, under the direction of Dr. Richard Olmsted, Professor and Chairman of Pediatrics.

Gift of $269.06 from the Portland Legal Secretaries Association, Portland, to be used for patient welfare, under the direction of Mr. Leslie W. Hunter, Director, Social Service.

Gift of $100 from Mr. Malcolm F. Marsh, Salem, to be used for urology research, under the direction of Dr. Clarence V. Hodges, Head of the Department of Urology.

Gift of $100 from Mr. and Mrs. Malcolm F. Marsh, Salem, to the pediatric library and education fund, for use under the direction of Dr. Richard Olmsted, Professor and Chairman of Pediatrics.

Gift of $100 from Mr. and Mrs. R. F. Moody, Portland, to be used for general research, under the direction of Dean Charles N. Holman.

Gift of $400 from the Mt. Scott Motorcycle Club, Portland, to be used for the Crippled Children's Division, under the direction of Dr. Richard Sleeter, Assistant Dean and Director of the Crippled Children's Division.

Grants totaling $20,630 from the National Cystic Fibrosis Research Foundation, New York City, for research and other purposes. March 1, 1972, through February 28, 1973, as follows:

1. $16,480 - "In further support of a grant to conduct a Cystic Fibrosis Care, Teaching, and Research Center," under the direction of Dr. Robert A. Campbell, Professor of Pediatrics.

2. $4,150 - "Quantitative Kinetics of Antibacterial Therapeutics in Cystic Fibrosis," under the direction of Dr. Robert A. Campbell.

Gift of $100 from the Progressive Business Women's Club, Portland, for the unrestricted use of the Medical School, under the direction of Dean Charles N. Holman.

Gift of $100 from Ella M. Reid, Portland, for the "Crippled Children's Division per Dr. Elaine Lis," under the direction of Dr. Richard Sleeter, Director of the Division.

Gift of $150 from Mr. and Mrs. D. M. Stookey, Portland, for use in the Pediatrics Bacteriology Laboratory, under the direction of Dr. Richard Olmsted, Professor and Chairman of the Department of Pediatrics.
Mr. & Mrs. R. H. Thompson

Gift of a cabinet, valued at $100, from Mr. and Mrs. Richard H. Thompson, to be used in the main room of the pediatric intensive care unit, under the direction of Mr. Gary Rood, Administrator of the Medical School Hospital.

U.S. Air Force

Grant of $40,726 from the U. S. Air Force, Washington, D.C., for research entitled, "Study of Speech Characteristics," January 1 through December 31, 1972, under the direction of Dr. Arthur N. Wiens, Professor of Medical Psychology.

U.S. Atomic Energy Commission


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

Grants totaling $744,589 from the U. S. Department of Health, Education, and Welfare, Washington, D.C., for research, training programs, and other purposes, as follows:

1. $689,968 - "In further support of a training program in Mental Retardation," July 1, 1971, through June 30, 1972, under the direction of Dr. Leroy O. Carlson, Associate Professor of Pediatrics.

2. $1,800 - "In support of Undergraduate Traineeships in Rehabilitation Medicine," May 1 through September 30, 1972, under the direction of Dr. Kenneth D. Smyth, Associate Professor and Head of the Division of Physical Medicine and Rehabilitation.

3. $52,821 - "Cost and Utilization Patterns of Rehabilitative Service," May 1, 1972, through April 30, 1973, under the direction of Dr. David W. MacFarlane, Associate Professor of Pediatrics.

U.S. Public Health Service

Grants totaling $477,387 from the U. S. Public Health Service, Washington, D.C., for research, fellowships, and other purposes, as follows:

1. $57,880 - "Clinical and Chromosomal Variation in 11,000 Children," February 1, 1972, through January 31, 1973, under the direction of Dr. Frederick Hecht, Associate Professor of Medical Genetics.

2. $31,905 - "Tilt Effects on Orientation Selectivity of Visual Cells," February 1, 1972, through January 31, 1973, under the direction of Dr. D. Duane Denney, Associate Professor of Psychiatry.

3. $35,964 - "Central Oncology Group," February 1, 1972, through January 31, 1973, under the direction of Dr. William S. Fletcher, Professor of Surgery.
4. $1,000 - "In further support of a Postdoctoral Fellowship Supply Allowance for Dr. Ruth Robbins," February 1, 1972, through January 31, 1973, under the direction of Dr. Catherine Smith, Professor of Otolaryngology.

5. $49,975 - "Participation in WCCG Trials," January 1 through December 31, 1972, under the direction of Dr. Robert E. Mass, Associate Professor of Hematology.

6. $33,770 - "Telemetered EEG, Behavior and Mental State," January 1 through December 31, 1972, under the direction of Dr. Janice R. Stevens, Professor of Neurology.

7. $23,243 - "Convection and Diffusion in the Vertebrate Embryo," January 1 through December 31, 1972, under the direction of Dr. J. Job Faber, Associate Professor of Physiology.

8. $92,208 - "Effects of Long-Term Drug Dependence," March 1, 1972, through February 28, 1973, under the direction of Dr. Samuel Irwin, Professor of Pharmacology in Psychiatry.

9. $19,999 - "Bacteria Flagella -- Structure, Specificity, and Control," March 1, 1972, through February 28, 1973, under the direction of Dr. Terrence M. Joys, Associate Professor of Microbiology.

10. $10,440 - "Oregon Public Health Apprenticeship Training Program," March 1, 1972, through February 28, 1973, under the direction of Dr. Harold T. Osterud, Professor and Chairman of the Department of Public Health.

11. $37,439 - "Control of Gene Expression in Differentiating Cells," May 1, 1972, through April 30, 1973, under the direction of Dr. Jack H. Fellman, Assistant Professor of Biochemistry.

12. $11,251 - "In further support of the General Clinical Research Center," October 1, 1971, through September 30, 1972, under the direction of Dr. John M. Porter, Associate Professor of Surgery.

13. $66,377 - "Amino Acid Metabolism and Aromatic Amines," April 1, 1972, through March 31, 1973, under the direction of Dr. Jack H. Fellman, Professor of Biochemistry.

14. $1,818 - "In further support of a Teaching Grant and Traineeships in Rehabilitation Counseling," September 1, 1971, through August 31, 1972, under the direction of Dr. George Saslow, Professor and Chairman, Department of Psychiatry.

15. $4,118 - "Cortisol Inhibition of Lymphoma Cells and Thymocytes In Vitro and In Vivo," June 1, 1970, through December 31, 1972, under the direction of Dr. John D. Gaboureul, Associate Professor of Pharmacology.
Gift of $500 from Paula von Klein, New York City, for use in the Division of Dermatology, under the direction of Dr. Walter C. Lobitz, Professor and Chairman of the Department of Dermatology.

**Portland State University**

**Scholarships & Fellowships**

Gifts totaling $7,909 from the following donors for scholarships and fellowships:

- Arrow, Inc., Washington, D.C. $150.00
- Bureau of Indian Affairs, Portland 472.00
- School District No. 6, Central Point 100.00
- Crown Zellerbach Foundation, San Francisco, California 500.00
- Georgia-Pacific Foundation, Portland 750.00
- Medford Senior High School, Medford 167.00
- Meier & Frank Company, Portland 1,169.00
- Meyer Foundation, Portland 3,000.00
- National Scholarship Service and Fund for Negro Students, New York City 225.00
- Oregon Congress of Parents & Teachers, Inc., Portland 498.00
- Oregon State Elks Association, Salem 125.00
- P.E.O. Sisterhood, Oregon State Chapter, Portland 419.00
- Phoenix High School, Phoenix 234.00
- St. Andrews Society of Oregon, Portland 100.00

**The American Cancer Society, Oregon Division**

Grant of $6,496 from The American Cancer Society, Oregon Division, Portland, "to support research being conducted to learn if type 2 herpes virus plays a role in malignant transformation of human tissues of cervical, prostate and lymphoid explants," February 1, 1972, through January 31, 1973, under the direction of Dr. Thelma Fisher, Research Professor of Biology.

**American College Regional Theatre Festival**

Grant of $1,583 from the American College Regional Theater Festival, Washington State University, Pullman, Washington, "to increase the educational value of the Region III American College Theater Festival for both participants and spectators through hearing the opinions of a major American playwright in the context of a festival of college theater," December 28, 1971, through January 31, 1972, under the direction of Mr. Asher Wilson, Head, Theater Arts Department.

**Earle A. Chiles-Earle M. Chiles**

Grant of $2,800 from Earle A. Chiles - Earle M. Chiles, Portland, "to support research studies of the Middle East being conducted by Mr. Fayek Bichara," March 10 through June 30, 1972, under the direction of Mr. Frederick J. Cox, Director, Middle East Studies Center.

**S. B. Gross**

Gift of equipment, valued at $10,000, from Mr. Spencer B. Gross, Consulting Engineer, Portland, for use under the direction of Mr. Casimir Oliszewski, Applied Science. The equipment includes a Balplex Stereopjacter with tracing table to help maintain Geodetic Science offerings in Photogrammetry.

**Joint Committee for the Humanities**

Grant of $1,300 from the Joint Committee for the Humanities, Corvallis, "to support publication of an urban affairs magazine, the Metropolis," November 1, 1971, through February 29, 1972, under the direction of Mr. Douglas Babb, Editor of The Vanguard.
<table>
<thead>
<tr>
<th>Organization/Delegation</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>The National Benevolent Association of the Christian Church</td>
<td>Grant of $1,000 from The National Benevolent Association of the Christian Church, St. Louis, Missouri, for research entitled, &quot;Life Maintenance - Learning Center for the Aged,&quot; April 1, 1972, through March 31, 1973, under the direction of Mr. John O'Brien, Institute on Aging.</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>Grant of $5,875 through the National Science Foundation, Washington, D.C., &quot;to support the 1972 Graduate Traineeship Program,&quot; February 23, 1972, through September 30, 1973, under the direction of Mr. David Clark, Dean of Graduate Studies.</td>
</tr>
<tr>
<td>Oregon Arts Commission</td>
<td>Grant of $2,775 from the Oregon Arts Commission, Salem, to support the &quot;Visiting Artists Program,&quot; March 1 through June 30, 1972, under the direction of Mr. Melvin Katz, Associate Professor of Art.</td>
</tr>
<tr>
<td>Oregon State Program on Aging</td>
<td>Grant of $10,000 from the Oregon State Program on Aging, Department of Human Resources, Salem, in support of a planning grant entitled, &quot;Life Maintenance - Learning Center for the Aged,&quot; April 1, 1972, through March 31, 1973, under the direction of Dr. John E. O'Brien, Director, Institute on Aging.</td>
</tr>
<tr>
<td>PSU Foundation</td>
<td>Gift of $1,435 from the Portland State University Foundation, Portland, representing gifts by private individuals in support of the &quot;Visiting Artists Program,&quot; beginning March 1, 1972, under the direction of Mr. Melvin Katz, Associate Professor of Art.</td>
</tr>
<tr>
<td>D. C. Smith</td>
<td>Gift of $1,800 for equipment acquisition, including a Balplex Stereoprojector, from Mr. David C. Smith, Portland. The equipment is to be used to help maintain Geodetic Science offerings in Photogrammetry, under the direction of Mr. Casimir Oliszewski, Applied Science.</td>
</tr>
<tr>
<td>U.S. Dept. of Health, Education &amp; Welfare</td>
<td>Grant of $240,000 from the U. S. Department of Health, Education, and Welfare, Washington, D.C., &quot;for continued support of the Program for Trainers of Teachers of Teachers for Disadvantaged Youth,&quot; June 30, 1972, through December 31, 1973, under the direction of Dr. David E. Willis, Associate Professor of Education.</td>
</tr>
<tr>
<td>U.S. Veteran's Administration</td>
<td>Grant of $5,894.64 from the U. S. Veteran's Administration, Portland, &quot;to support services provided by Portland State University relating to vocational counseling of veterans,&quot; February 15 through June 30, 1972, under the direction of Mr. Robert Smith, Associate Professor, Counselor.</td>
</tr>
<tr>
<td>Gifts to the Library:</td>
<td>Gifts to the Portland State University Library from various donors as follows:</td>
</tr>
<tr>
<td>C. B. Beall</td>
<td>Literature as well as history and criticism of the writers of England and other countries of Europe from Dr. Chandler B. Beall, Eugene. The gift is valued at $385.</td>
</tr>
</tbody>
</table>
Fifteen volumes of the Cambridge History of English Literature and other titles in the areas of literature and philosophy, from Dr. Judah Bierman, Portland. The gift is valued at $195.

Library materials for continued support of the Gates Collection on African and Afro-American Life, from Mr. and Mrs. Osly J. Gates, Portland. The gift is valued at $104.60.

Material in the areas of American, English and Continental European literature, from Dr. Frederick Harrison, Portland. The gift is valued at $440.

"To provide funds in the amount of $2,970 for wages to a Portland State University staff librarian, working under Phase I of the Union List of Serials, which involves the expansion of the regional serials data to include the holdings of the University of Oregon Library," February 8 through June 30, 1972, under the direction of Daphne A. Hoffman, Serials Librarian.

Grants totaling $4,765 from School District 24J, Salem, for the following purposes:

1. $550 - "To provide funds to pay an instructor in the Career Opportunities Program," March 27 through June 10, 1972, under the direction of Joan Gengler, Research Assistant.

2. $2,752 - "To provide two courses and a supervisor for Career Opportunities Program participants," January 3 through March 17, 1972, under the direction of Mr. Roger Kershner, Associate Professor of Education.

3. $1,463 - "To provide a course in art and for a supervisor of Career Opportunities Program participants," March 28 through June 9, 1972, under the direction of Joan Gengler, Research Assistant.

Grant of $29,405 from the U. S. Atomic Energy Commission, Washington, D.C., "to conduct a study of the concentrations of iron-55 in South Pacific Ocean Water and Marine Organisms and in the Columbia River." March 1, 1972, through April 30, 1973, under the direction of Dr. C. David Jennings, Assistant Professor of Physics.

Gifts totaling $10,569.65 from the following donors for scholarships and fellowships:

- Bate Plywood Company, Merlin $ 100.00
- Carpenter Scholarship, through Ashland Senior High School, Ashland 1,771.00
- Carpenter Foundation, through School District No. 6, Central Point 1,310.00
- Carpenter Scholarship, through Medford Senior High School, Medford 1,343.00
Carpenter Foundation, through Phoenix High School, Phoenix $1,158.00
Crater High School and Rotary and Gold Hill Chamber of Commerce, through Crater High School, Central Point 116.65
Delta Kappa Gamma Society, Ashland 165.00
Faculty Wives and Faculty Women, Ashland 169.00
Paula Fisher Memorial Scholarship, through Grants Pass Public Schools, Grants Pass 166.00
Foreign Mission Board of the Southern Baptist Convention, Richmond, Virginia 400.00
Georgia-Pacific Foundation, Portland 250.00
Mildred Litster Scholarship, through the U. S. National Bank of Oregon, Portland 117.00
Gerald McAllister Music and Fine Arts Scholarship, through the Grants Pass Public Schools, Grants Pass 166.00
Medford Senior High School, Medford 273.00
National Merit Scholarship Corporation, Evanston, Illinois 250.00
Oregon Congress of Parents and Teachers, Inc., Portland 415.00
Rogue Valley Physician's Service, Medford 475.00
Rotary Vocational Scholarship, through Phoenix High School, Phoenix 132.00
The Trust Territory of Pacific Islands, Saipan, Mariana Islands 779.00
U. S. National Bank of Oregon, Portland 1,014.00

Grant of $72,800 from the U. S. Department of Justice, Law Enforcement and Assistance Administration, Washington, D.C., "for loans in the Law Enforcement Program at Southern Oregon College," July 1, 1971, through June 30, 1972, under the direction of Mr. Ivan Polk, Chairman, Law Enforcement Department.

Eastern Oregon College

Scholarships & Fellowships

Gifts totaling $3,756.36 from the following donors for scholarships and fellowships:

Association on American Indian Affairs, Inc., New York City $150.00
Baker County School District 30J, Unity 180.00
Bureau of Indian Affairs, Juneau Area Office, Juneau, Alaska 655.00
Bureau of Indian Affairs, Northern Idaho Agency, Lapwai, Idaho 150.00
Bureau of Indian Affairs, Umatilla Agency, Pendleton 195.00
State Society, Daughters of the American Revolution, Portland 167.00
Georgia-Pacific Foundation, Portland 250.00
Oregon Congress of Parents and Teachers, Inc., Portland 166.00
Soroptimist Club, La Grande 170.00
The S. S. Johnson Foundation Gift of $500 from The S. S. Johnson Foundation, Redmond, to be used for student loans, under the direction of Mr. James C. Lundy, Business Manager.

Leighton Auto Parts Gift of acrylic lacquers, enamels and various accessories, valued at $1,705.65, to be used by the Art Department, primarily in the sculpture laboratory, under the direction of Mr. Judd R. Koehn, Assistant Professor, Acting Head of the Art Department.

Oregon Arts Commission Gift of $200 from the Oregon Arts Commission, Salem, "To supplement funding in connection with a literary contest," September 1, 1971, through June 30, 1972, under the direction of Mr. George A. Venn, Instructor in English.

Research Corporation Grants totaling $15,490 from Research Corporation, New York City, for research and other purposes, as follows:

1. $9,310 - "Effects of Foreign Gas on Total Line Shape," March 6, 1972, through June 30, 1973, under the direction of Dr. David E. Gilbert, Associate Professor of Physics.

2. $6,180 - "Internal Ionization During Electron Capture," February 1, 1972, through January 31, 1973, under the direction of Dr. Paul Stephas, Associate Professor of Physics.

Oregon Technical Institute Scholarships & Fellowships Gifts totaling $7,020.65 from the following donors for scholarships and fellowships:

American Legion Auxiliary, Hillsboro $ 150.00
Associated General Contractors of America, Inc., Oregon-Columbia Chapter, Portland 343.00
Bernard Daly Educational Fund, Lakeview 1,620.00
The Carpenter Foundation, Ashland School District, Ashland 252.00
The Carpenter Foundation, through Medford Senior High School, Medford 700.00
First Federal Savings & Loan Association, Klamath Falls 250.00
Ford Motor Foundation, Dearborn, Michigan 767.00
Linkville Kiwanis Club, Klamath Falls 172.00
Klamath Basin Life Underwriters, Klamath Falls 100.00
Medford Rotary Educational Scholarship, Medford 400.00
3-M - Minnesota Mining and Mfg. Co., St. Paul Minnesota 500.00
OTI Faculty Wives' and Women's Club, Klamath Falls 400.00
Rotary Club, Newberg 166.65
United Presbyterian Church, U.S.A., Synod of Oregon, and First Presbyterian Church, Klamath Falls 200.00
Miss Sarah Wolverton, Pasadena, California 1,000.00
D. H. Goehring

Gift of equipment, valued at $210, from Mrs. David H. Goehring, Klamath Falls, for use in the Dental Department, under the direction of Dr. Frank M. Wilson, Dental Director.

U.S. Dept. of
Health, Educa-
tion & Welfare

Grants totaling $16,000 from the U.S. Department of Health, Education, and Welfare, Office of Education, Washington, D.C., for student assistance, as follows:

1. $1,000 - "Matching funds for grants to low-income students under special program for disadvantaged," July 1, 1971, through June 30, 1972, under the direction of Dr. Terrance R. Brown, Director of Financial Aids.

2. $15,000 - "Funds for College Work-Study Program," January 1, 1971, through June 30, 1972, under the direction of Dr. Terrance R. Brown, Director of Financial Aids.

Teaching, Research Division

Associated
Students, OCE

Gift of $421.74 from the Associated Students of the Oregon College of Education, "for use in the operation of the Northwest Child Development Center," under the direction of Mr. Paul Dawson, Assistant Research Professor.

Linn-Benton IED

Grant of $6,050 from Linn-Benton Intermediate Education District, "to provide staff services to the parent training program recently funded through Title I, Mental Health Division," February 1 through June 1, 1972, under the direction of Dr. Victor Baldwin, Research Professor.

Multnomah
County IED

Grant of $5,470 from the Multnomah County Intermediate Education District, "to conduct an in-service training program for teachers, teacher aides, and parents of mentally retarded children," February 15 through June 30, 1972, under the direction of Dr. Victor Baldwin, Research Professor.

School District
24J

Grant of $8,000 from School District 24J, Salem, "to evaluate the Judson Junior High School Title III, ESEA The World of Work Project, funded through the Oregon Board of Education," March 15 through June 15, 1972, under the direction of Dr. Casper Paulson, Teaching Research Division.

Oregon Dept. of
Education

Grant of $2,444 from the Oregon Department of Education, Salem, "to provide an independent third-party evaluation of the Oregon State School for the Deaf, Title I Project," March 27 through August 31, 1972, under the direction of Dr. H. D. Fredericks, Research Professor.

Division of Continuing Education

Oregon Mental
Health Division

Grant of $18,330 from the Alcohol and Drug Section, Mental Health Division, Salem, "to operate the Western Institute of Drug Problems," June 10 through 16, 1972, under the direction of Dr. Kenneth Waldroff, Chairman, Conferences and Institutes.
Oregon Educational and Public Broadcast Service

Corporation for Public Broadcasting

Grant of $33,075 from the Corporation for Public Broadcasting, Washington, D.C., "to develop and upgrade instructional and educational enrichment capacities: increase the broadcast hours and to run a series of minority programs aimed at the Mexican-American groups," February 1, 1972, through June 30, 1973, under the direction of Mr. Robert Hinz, Station Manager KOAC, and Mr. William McGrath, Station Manager KOAP.

YARG Foundation

Gift of $100 for the purchase of color television equipment from the YARG Foundation, Portland, to be used under the direction of Mr. Donald R. Larson, Director, Oregon Educational and Public Broadcast Service.

ADJOURNMENT

The meeting adjourned at 3:30 P.M.

George H. Layman, President

R. L. Collins, Secretary
SOME CONSIDERATIONS FOR ENROLMENT LIMITATIONS
Prepared by Board Member John Nosser

1. Basic student population (18 through 24) based on age cohorts in the 1970 census.

<table>
<thead>
<tr>
<th>Year</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>1970</td>
<td>288,006</td>
</tr>
<tr>
<td>1970 adjusted for military absence</td>
<td>253,474</td>
</tr>
<tr>
<td>1972</td>
<td>275,051</td>
</tr>
<tr>
<td>1978</td>
<td>296,970</td>
</tr>
<tr>
<td>1984</td>
<td>270,682</td>
</tr>
<tr>
<td>1988</td>
<td>236,759</td>
</tr>
</tbody>
</table>

Migration should probably result in increases in the age cohorts by 1978 and later years. Such increase may well be minimal, however:

<table>
<thead>
<tr>
<th>Population age</th>
<th>Year</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-9</td>
<td>1950</td>
<td>295,511</td>
</tr>
<tr>
<td>10-19</td>
<td>1960</td>
<td>301,742</td>
</tr>
<tr>
<td>20-29</td>
<td>1970</td>
<td>301,616</td>
</tr>
</tbody>
</table>

increase in 20 years, 2%.

Population age 20-29 in 1970 adjusted for military service

increase in 20 years, 3%

Conclusion: It is virtually certain basic student population will be smaller in 1988 than it now is. It is doubly certain that it will be smaller in the latter half of the 1980s than in the latter half of the 1970s.
2. **Percentage of basic student population attending state system schools.**

In the past this has been projected largely from three factors. One is size of high school graduating class. Each year the state system has enrolled about 28% of the previous spring's high school graduates. (Low 1970-71, 25.1%; high 1963-64, 31.9%) Another factor is transfers from community college lower division programs, with about 10% to 12% of each prior year's prior year community college transfer enrolment entering the system schools the following year. Finally, survival rates within the system are applied. All of these factors, and some contributory to them, are undergoing change. These are some imprecise observations:

a. High school graduates will largely follow age group cohorts, rising in the 1970s, declining in the 1980s. Perhaps 5% more of each age cohort may graduate in later years than earlier years.

b. The percentage seeking post-high education will continue to increase - probably not by more than 1% per year since Oregon is already at the level predicted nationally for 1980.

c. Of students seeking post-high school education, a greater percentage will enroll in community colleges and a lower percentage in the state system. At least three factors point in that direction.

First is cost. Not necessarily total cost - but cost to the student. Partly this is a result of our policy which charges the same tuition for both lower and upper division and at colleges and universities despite differences in program cost. Partly it is a result of greater combined state and local support for community college. For many students it is the possibility of living at home while attending community college, but not a four-year institution. The fact is that tuition and other student costs are higher in the state system and the trend is to a widening gap.

Second is increasing emphasis on vocational education. We are already at the point where there are more college graduates than jobs requiring a four-year degree. Students will adjust to career opportunities much faster than we think.

Third is the increasing attractiveness of the community colleges physically. Many have been operating out of store fronts, old high schools and trailers. As their campuses develop they cannot help but be better known and regarded by students.
d. The average time spent by students in obtaining a degree will decline. There are already substantial possibilities for advanced placement based on high school work. Nationally, many schools are discussing exclusively three-year baccalaureate programs. The trend will develop, in my opinion, for both educational and financial reasons. Much of student feeling of "irrelevance" can be traced to simple repetition of material already covered in high school and the length of time spent in general study before focusing on a vocational major. The increasing cost, and particularly student cost, will make four years of undergraduate work unattractive if not impossible for many students. In terms of educational "productivity," eliminating the cost of duplicative study is one of very few really significant possibilities.

e. Greater year-round use will result in diversion of some students from the three-term pattern. The capital construction savings of year-round use make greater emphasis more and more desirable both due to soaring construction costs and to avoid overbuilding in the 70s for declining enrolments in the 80s. But there are other factors which will stimulate the trend in higher education. Elementary and secondary schools under cost pressure are establishing year-round programs and a growing number of students will be accustomed to going to school in summer. While summer still provides large student employment opportunities, the opportunities do not equal need. There are greater chances of absorbing students at other times in non-academic jobs.

f. Changes in resident status could either greatly reduce or increase enrolment. If, as seems likely, it is ruled that any 18-year-old can establish residence and that Oregon cannot require lengthy residence as a prerequisite to paying the same fee as is charged, say, graduates of Oregon high schools, there will be dramatic changes. One pattern might be to require applications six months or more in advance of registration, which would tend to reduce both resident and non-resident enrolment. Another response might be to greatly increase tuition toward full cost, relying on student aid programs based on need, prior tax payments, or prior years in Oregon schools. If aid were adequate, it could increase enrolment. If inadequate, enrolment would drop.
g. Adult re-education will increase. In 1971 fall term, the state system had 5,184 head count students aged 30 or older. That number could well double in a decade. But many of these people will want training in patterns other than the standard quarter. One-week, two-week, three-week, or even two-or-three-day opportunities, to update skills and knowledge will better fit employed adult needs. Where courses are taken in the standard pattern it will most often be one at a time in evening hours. Thus large head count will not produce large 3-term full-time enrollment.

Conclusion: There are far more factors likely to reduce three-term state system enrollment in the next decade than there are factors which will increase it. Many of these factors have no relationship to past patterns of cohort survival.
3. Efficient institutional size.

There have been a number of studies of desirable institutional size. None are conclusive. There appears to be more agreement on desirable institutional size than on maximums. Minimum sizes are generally necessitated to supply educational variety and a reasonable base for allocation of fixed overhead costs. Maximum size recommendations involve more complex considerations: the size of the campus and the community in which it is located; desire to spread the geographic location of educational institutions; both for ease of student access and the cultural and economic benefits that accompany them; desire to avoid the bureaucracy and impersonality of large institutions, which render traditional concepts of collegiality unworkable, lead to student dissatisfaction and public feeling that no one is in control. Limits suggested by the Carnegie Commission are:

<table>
<thead>
<tr>
<th>Institution</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liberal arts colleges</td>
<td>1,000</td>
<td>2,500</td>
</tr>
<tr>
<td>Comprehensive colleges</td>
<td>5,000</td>
<td>10,000</td>
</tr>
<tr>
<td>Research universities</td>
<td>5,000</td>
<td>20,000</td>
</tr>
</tbody>
</table>

Other studies suggest that there are marginal cost-per-student efficiencies, both capital and operating, up to a size of 3 to 5,000 for colleges and 7 to 10,000 for universities; but very little cost efficiency beyond that. For universities offering a full range of doctoral programs in both sciences and liberal arts, a size of 10 to 15,000 has been suggested as desirable for educational quality. Where doctoral programs are limited, as in the Oregon system, lower enrollments could provide adequate strength.

Based on the studies I have seen, the following conclusions are warranted:

a. None of Oregon's colleges or universities is too small for minimum acceptable efficiency.

b. The universities are large enough for economy of scale. Development of graduate instruction is needed at Portland State and desirable at UO and OSU.

EOC could definitely achieve economies of scale with more students.

OCE and EOC are large for liberal arts colleges, but of minimum size if they are to become comprehensive colleges offering a wide variety of majors and professional degrees.

OTI could achieve some economies with greater size. How far it should expand depends on whether upper division technical offering are to be provided in the Portland area.

John D. Mosser