



STUDY CHEMICALS—Radio respirometer at Oregon State college is used to study the way chemicals are used by living tissue. Work is being done under several grants having to do with cancer and heart research. At right is Dr. Vernon Cheldelin, director of the Science Research Institute at the college, with Dr. Robert Newburgh who is now working on a \$30,000 three-year grant from American Cancer Society.

Education's Quality Index Said To Be Number of Research Grants

(Editor's note: This is another in the series of articles on research and public service activities of the state's tax-supported colleges and university. It was written for the Oregon state system of higher education.)

By WILMA MORRISON

From \$568,500 in 1950-51 to \$8,179,000 in the first nine months of fiscal 1959-60 is the dollar record of outside investment in research and extracurricular training services at Oregon's tax-supported colleges, its medical and dental schools.

Chancellor John R. Richards has called the increasing numbers of grants for basic and applied research and for special student and teacher training institutes. "The most rapidly expanding index of quality" in the state system of higher education.

"There is an interest being created in Oregon's scientific community that is attracting money grants beyond what might be expected from the size of the state," he said.

Dean Harry Alpert whose graduate school at University of Oregon is administering more than 100 research contracts running from \$2,000 to \$380,000 each, said:

"Research comes from individuals, not from manpower; only individuals inquire, not bureaus, committees or organizations. It is through this research that we can compete for top staff. We can't compete for those who want to go into industry. We can compete for those who prefer the academic life, and there will always be those who do prefer it. . . a good graduate program cannot exist without the stimulus of research. And it becomes part of the common core of knowledge that sifts down through the undergraduate program, and to the secondary and elementary levels through the teachers who go out into the university."

A briefing of the hundreds of large and small research and training projects being supported all or in part by grant funds in the state's higher schools fills 100 pages.

Chancellor Richards pointed to three major building investments as outstanding recognition of quality in Oregon institutions—the unpre-

denied \$1,298,000 grant from the U.S. public health service for a research building at the University of Oregon medical school, another \$277,000 toward a science building at the university, and the \$502,000 that added one floor to the physics-chemistry building at Oregon State to house the college's recently established Science Research Institute.

\$2 Million More
The \$8,178,000 in research and training grants accepted thus far in 1959-60 is already some \$2,000,000 more than the total received in 1958-59.

A recent Washington, D.C., release said that for the first time in history more than 50 per cent of all health science research going on in the country is now financed by the federal government.

A check of Oregon's higher education budgets reflects the growth of government investment in research since World War II demonstrated the unique role of the colleges and universities as centers of knowledge and skills vital to national survival.

Twenty years ago the state board of higher education could handle all its research grant business in less time than it took to call roll. There was only \$16,000 given to all campuses in 1939-40, none of it from the government.

From Government Agencies
In 1950-51 when the total for the system was \$568,500, the federal government was source of \$303,000. In 1958-59 government agencies were source of \$4,968,000 out of a total of \$5,970,000.

Lion's share of the research money has always been invested in the medical school with its hospitals and clinics that serve the state, Oregon State and the university with their graduate schools have alternated in second place about \$2,000,000 each this year. Increasing professional recognition of the University of Oregon dental school since its 1956 move to a new building on Marquam hill is reflected in research grants—from a to-

tal of \$17,400 10 years ago, to \$202,000 in first nine months of this year.

This 1959-60 year is the first time that Portland State college and the three regional schools at Monmouth, Ashland and La Grande have been allowed a few thousand dollars of research "seed money" from the state system budget.

Unique Distinction
Last week Portland State, youngest of the system colleges, reported \$130,000 in grants since September. It had had only \$43,000 in its previous five year history. A unique distinction came to the Portland campus this spring—a \$25,000 Defense Education act grant that has launched the only undergraduate center of Middle East studies in the nation.

One organizational evidence of the new orientation toward research and scholarly excellence is seen in the research institute set up at the university and Oregon State. Another is the four-year Honors College program to start at the university next fall.

Nationally Recognized
The Institute of Molecular Biology under the nationally recognized scientist, Aaron Novick, at the university is working in a "break-through" field in science, studying basic processes of life as seen in the chemical and physical analysis of the molecule.

At Oregon State the Science Research Institute is headed by Dr. Vernon H. Cheldelin. Its more than \$200,000 of research grants in the past year, he said, involved an investment of \$40,000 of state funds. "A five to one return: better than Las Vegas operates on."

Other newly established research institutes at the university are in community studies, international studies and overseas administration, theoretical science, and social service training and research.

Great University
On the subject of what makes a great university or college, University President

O. Meredith Wilson, who leaves this spring to take over the presidency of University of Minnesota, said:

"Almost everything that happens—including the acquisition of outside support of research and training programs—is because of the presence of a superior and imaginative

individual at a critical spot. . . . And most of the falling on evil times that comes about in higher education institutions, as in most other human institutions, comes from excessive adherence to convention, to over-concern over pennies when a little more determination to get the best

man for the job is needed . . . there is no question in my judgment that the last \$100 you spend (on a salary) is the best spent."

See Courtesy Chevrolet's **IMPORTANT ANNOUNCEMENT** Back Page, Sec. 2 and Classified Page Today's Mail Tribune

Development of State Park Set

Cave Junction—Development work will begin this summer on an 80-acre tract near Cave Junction as a state park, according to Sidney Bazett, member of the parks advisory board for the state highway commission.

The site is at the confluence of the east and west forks of the Illinois river and will be the first state park actually to be developed in Josephine county.

Bazett said the site was chosen after a survey by Chet Armstrong, state parks superintendent, indicated it was the most suitable and attractive between Grants Pass and the California line.

Development will include installation of electric facilities in covered areas, hot and cold running water and toilets and recreation facilities, according to Bazett. Plans call for employment of a caretaker on a year-round basis.

The acquisition and development plans were approved recently at a meeting of the advisory board in Albany. Development is subject to approval by the highway commission, but Bazett said this is regarded as a routine matter since the commission has always followed the board's recommendations.



LEARNING EXPERIMENT—Not all the millions in research grants administered by Oregon's higher education institutions are going into physical science. This monkey going through a learning experiment with Dr. Robert Leary is one of 25 which University of Oregon's psychology department uses in study of behavioral questions. A \$30,000 grant from National Institute of Mental Health has supported study which involves behavioral effects of tranquilizing drugs. (Phil Wolcott Photo)

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County Youths Return from SF

The Jackson county 4-H delegation to San Francisco returned Thursday with additional honors from the Junior Cow Palace show.

The team of Jo Anna Malloroy, Eagle Point, Craig Wright, Medford, and Larry Wright, Rogue River, placed 10th in competition with 30 counties in California.

In the showmanship contest approximately 5 per cent of the exhibitors are classified as "expert showmen", and these 5 per cent compete for the championship of the show. Competing with over 300 beef exhibitors, Larry Wright placed 11th, and Patsy Charley, Eagle Point, placed ninth, and were judged "expert showmen." Philip Krouse, Applegate; Jo Anna Malloroy, Eagle Point; and Georgia Hubbard, Eagle Point, were listed as "qualified showmen" in the beef contest.

Susan and Craig Wright, Medford, were listed as "expert showmen" in the sheep showing contest; and Marilyn Deckelman, Rogue River, was classed as "expert" in the dairy showmanship.

Market steers from Jackson county were sold at the auction and the top price was received by Larry Wright. He received 34 cents. Prices ranged down to \$28.50 per hundred. Show officials were well pleased with Jackson county showing at the Grand National.

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Easter

Greetings and Good Wishes

As we celebrate a glorious Easter, we take this opportunity to greet you and your family with every good wish for your happiness at this Holy season. Our earnest hope is that the glad tidings of Easter may guide and strengthen all of us, helping us to envision deep spiritual goals and to recognize the greater truths that go beyond our everyday life.

To know the true joy of Easter . . . to experience all the glory of its message . . . attend Easter services in the church of your choice. Bring your family . . . join your friends.

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