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Cap. 2

Elm disease threat will alter campus

The tree-lined walkways at Oregon State University will take on a new look during the next decade.

About 200 giant American elm trees are scheduled to be removed in an attempt to save another 120 from Dutch elm disease that has ruined plantings across the U.S. and around the world. The disease, for which there is no known cure, has not yet arrived on campus but is expected within a year or two. New trees will be planted.

The first 21 elms were cut and log-trucked away during spring vacation. Larger numbers will go periodically in the future under a new 10-year tree management plan developed by Charles Woosley, grounds superintendent, and tree scientists at the University.

About 75 new trees will be planted this spring and another 240 next winter. "These will be of 57 different varieties," Woosley said, including oaks, maples, tulip trees, thornless locust, flowering cherry and pear, dove trees, katsura trees, Colorado blue spruce and true cedars.

"The magnificence of tree plantings at the University will be maintained," Woosley stressed. There are about 900 trees of all kinds on the 400-acre campus, he noted. "The University is known nationally for the beauty and diversity of its trees and landscapes."

Diversification will help against pests

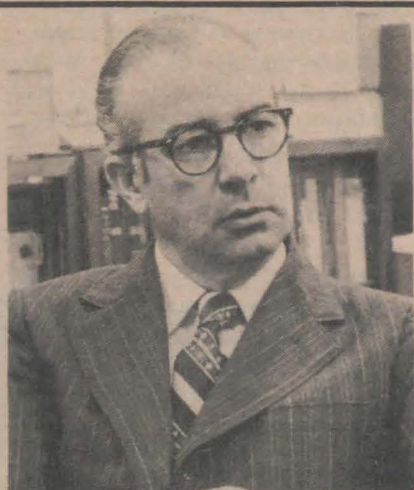
The even greater diversification set with the new varieties will prevent any one or two pests from creating a similar problem in the future, Woosley continued.

President Robert MacVicar lamented the loss of the giant trees but said "it is necessary if we expect to save any of the American elms from the attack of Dutch elm disease."

The disease is caused by a virus. A small bark beetle is the carrier. The spread is often through the roots of trees, MacVicar noted, so breaks in the plantings are considered the first protective step.

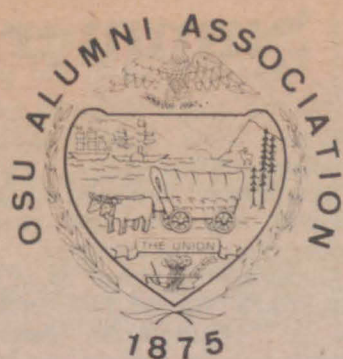
The first 21 trees removed will be especially missed, MacVicar pointed out,

(Continued on page 3)



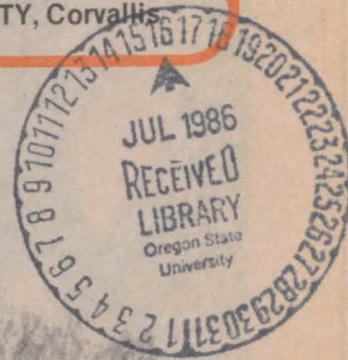
David J. King, new dean of the College of Liberal Arts, has some significant, encouraging observations about OSU and liberal arts on pages 4-5.

**LIBERAL
ARTS** at Oregon State



oregon stater

Vol. 12, No. 3, April 1978 OREGON STATE UNIVERSITY, Corvallis



Some of the tall American elm trees on the campus, such as these on the east side of the MU quad, are going to have to come down as the deadly Dutch elm disease moves relentlessly into the Northwest. There is no known cure for the disease.

OSU officials believe that by acting now they can save many of the elms and prolong the life of others. The disease frequently

spreads through the roots and, unfortunately, many elms on the campus are too close together. Thinning is the first protective step. Also, planting of a variety of new trees will begin immediately so that the beauty of the OSU campus will continue. More elms photos on pages 2-3. (Gazette-Times photo by Tom Warren)

\$1,672,300 for research. . .

Naval contract received

The School of Oceanography at Oregon State University has received its 24th annual research contract from the U.S. Office of Naval Research for worldwide ocean studies.

This year's contract is for \$1,672,300, second largest ever. More than a dozen research projects are supported by the ONR contract, plus part of the operational costs of the university's 177-foot research vessel, Wecoma.

Wayne V. Burt, who has headed the ONR contract research work at OSU since the beginning, and George H. Keller, acting dean of oceanography, will be project directors.

Earth-orbiting satellites that produce pictures-images of various kinds for scientific use will be involved in one new project, it was noted.

Data from the satellites and that collected by ships and buoys will be compared. The goal, Burt explained, is to see if the satellites can provide data on the interaction of tectonic plates -- giant pieces of earth crust that move slightly and independently and that make up the surface of the earth.

Earthquakes come from plate movements and far more earthquakes occur at sea than on land, it was noted. Potential earthquake hazard assessment is therefore a major concern of the new study. "So is a basic understanding of the earth's structure and processes," Burt added.

Project leaders are Richard Couch and Stephen Johnson, who spearhead OSU seismic (earthquake) studies. The National Aeronautics and Space

Administration and the National Oceanic and Atmospheric Administration are cooperators with ONR and OSU.

Two other new projects are included. One is a study of the way shear waves travel in ocean bottom sediments. Headed by Richard Johnson, it will give new information on the physical properties of significant sea floor sediments.

New projects use data from satellites

The other is looking at the distribution of nitrous oxide, a man-made pollutant, to learn if the oceans are a major "sink" for the chemical. Louis I. Gordon is project leader.

About half of the contract is for basic physical oceanographic studies, mostly of the surface layers of the ocean. Clayton A. Paulson, Douglas R. Caldwell, Peter Niiler, Roland DeSzoeko and Burt are studying how various meteorological

factors influence the upper layers of the sea. Atmospheric-ocean interactions are tied to climatic changes and weather forecasting advances, it was noted.

Ronald Zaneveld and Hasong Pak are studying marine optics and William Percy and Richard Johnson are determining the relationship between sound scattering and movements and numbers of marine organisms.

Other on-going projects supported by ONR funds include: chemical oceanography -- Richard M. Pytkowicz, new instrumentation -- Roderick Mesecar; and marine geology -- Kenneth F. Scheidegger, LaVerne D. Kulm, William Hutson, Hans Schrader, Erwin Suess and Keller.

Most of the work will be done with the Wecoma and other smaller OSU research vessels. But some cooperative national and international studies will take OSU scientists around the world and will find them aboard research ships from several other universities and countries.

Oceanographers from 27 other institutions and six other nations worked aboard the Wecoma during 1977.

Growing Your Own
A Practical Guide to Gardening in Oregon
A special 8-page insert from OSU
Extension Service in this Oregon Stater



New officers to head Dads Club activities for the coming year were elected during Dads Weekend Feb. 10-11. Norman Kennedy of Eugene is president, succeeding Roy Malo of Portland.

Among projects the Dads Club supports are its scholarship program, a university-wide counseling-tutorial program, and the student loan fund.

Officers pictured above are, front row, Don Blinkensop of Portland (left), vice president, and Kennedy, president. In the back row, from left, are Malo, member of the board of directors; Rodney Moore, Portland, secretary; and Robert Park, Hillsboro, treasurer.

oregon stater

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Director

Summer bulletin out

The 1978 Oregon State University Summer Term Bulletin is now available.

The booklet lists courses and meeting times for OSU classes during the coming summer.

Copies can be picked up at the Registrar's Office on the main floor of the Administrative Services Building. Copies are also available through the mail by contacting the OSU Summer Term Office.

The bulletin features unusual graphics and photographs from scientific and technical fields.

Formal admission not necessary

No major administrative changes in summer term programs are anticipated, according to J. Frank Ligon, summer term director. "As in past summers, formal admission is not necessary. Students simply

sign up for courses they want on June 19 or on the first day of the workshop they want to attend."

Summer term offerings include 8-week courses, sequences of courses lasting up to 11 weeks, as well as one-and two-week workshops. Any may be taken for credit or audited.

A special feature of summer term this year will be the Family University of the Northwest, operated by the OSU School of Education. The program offers a variety of short-term workshops for students in education, a comprehensive schedule of university and community activities for all age groups, and assistance in finding family housing in Corvallis. Interested persons should write F.U.N., School of Education, Oregon State University, Corvallis, OR 97331.

OSU social worker honored



Georgine Thompson

Georgine Thompson, clinical social worker in the OSU Student Health Center, has been named Oregon's Social Worker of the Year.

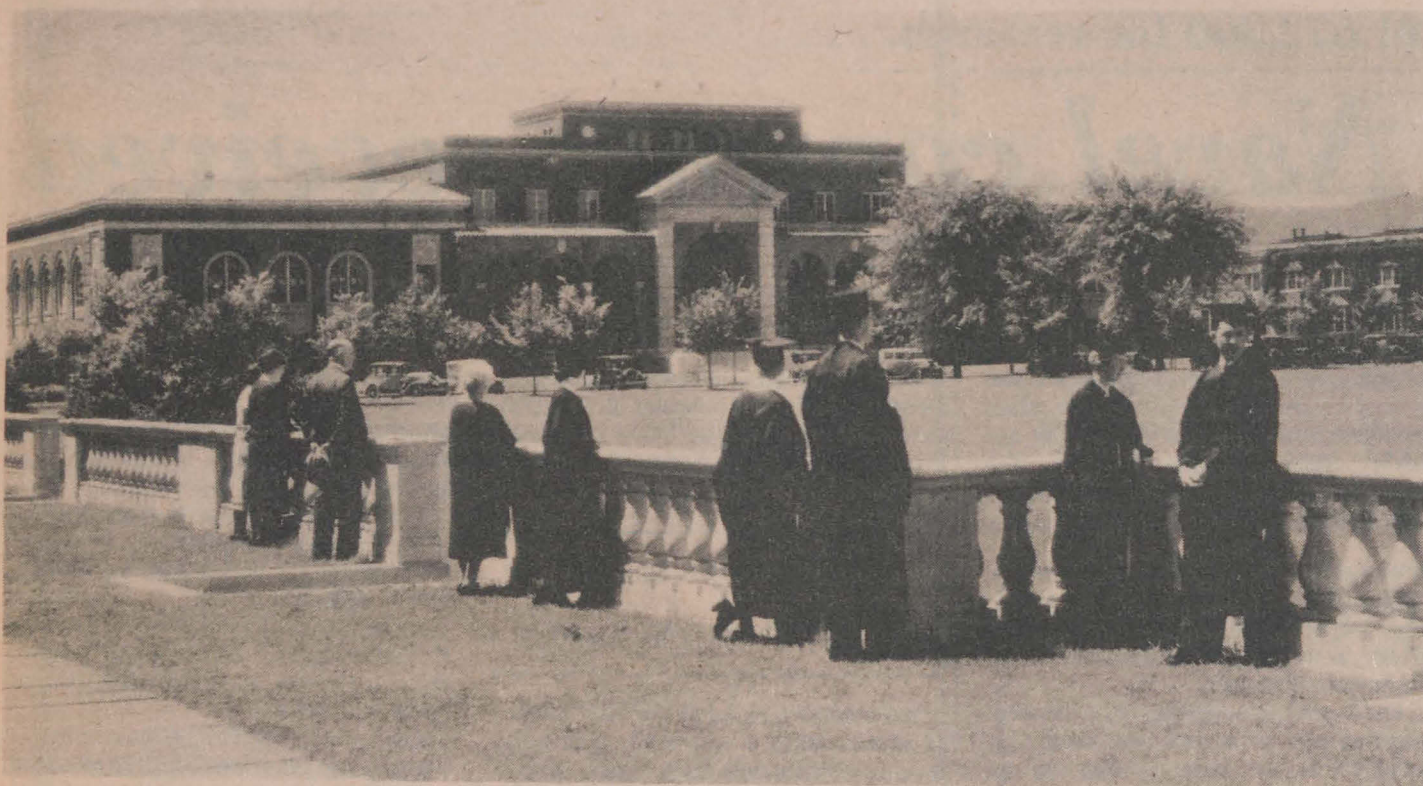
The award was made by the Oregon chapter of the National Association of Social Workers and is the highest recognition given by the

chapter. Selection was based on nominations from the 700-plus Oregon members of the group.

She was particularly cited for her efforts on behalf of House Bill 2511 which was passed by the 1977 Oregon Legislature. It requires the State Health Division to register clinical social workers and creates privilege for communication given to social workers by their clients.

Ms. Thompson has been on the staff of the Mental Health Clinic at OSU's student health service since 1969, the same year she received her master's degree in social work from University of Illinois.

She is a member of the Academy of Certified Social Workers; member of the National Registry of Clinical Social Workers; on the board of the Lutheran Family Services of Oregon; board member and past officer for Benton County Planned Parenthood Association; and a trainer of volunteers for the Benton County Crisis Service.



It's Commencement Day and graduates in front of the MU in the early '30s see the Women's Building over rows of young elms on each side of the street. At below left, the scene is today. Two elms from in front of the building have been removed.

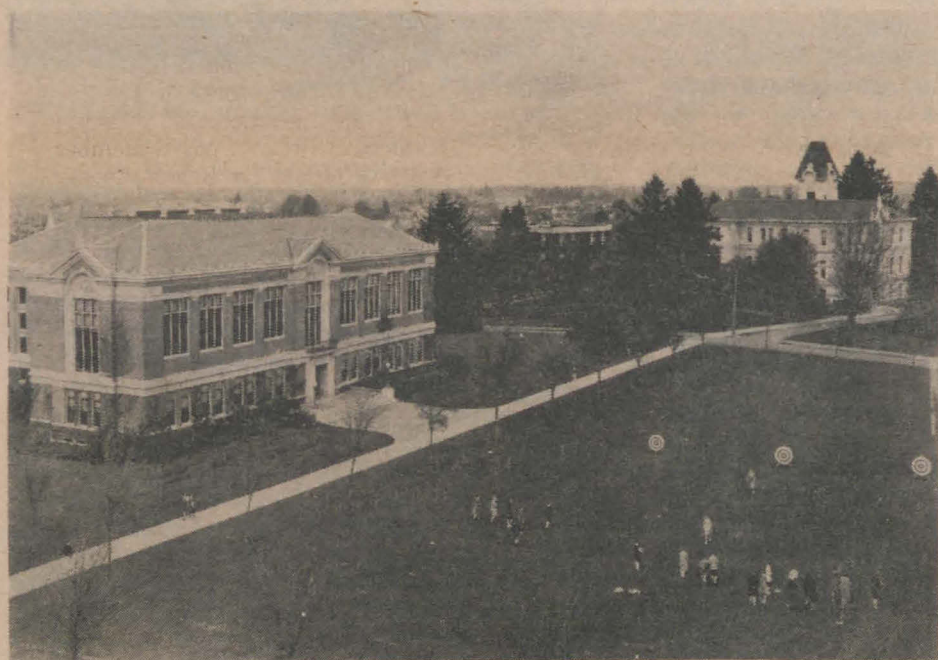
The Columbus Day storm of 1962 destroyed many campus trees, lower right. (OSU Archives and Jim Gleason photos)

The old photo at left had no specific date. If anyone knows what June those proud graduates gazed over the campus and into the future, it would be appreciated if they would write to OSU Archives, Administrative Services Bldg., Corvallis, OR 97331.





This stone, west of Kidder Hall (the former library), was put in place 65 years ago, April 1913. The occasion was the planting of many of the elm trees in the central part of the campus by the class of 1913. There had been rows of elms on the lower campus earlier. (Jim Gleason photos)



Looking back to 1929, these elms are 16 years old and archery is the activity on the quad in front of Kidder. The stone is hidden by one of the young trees at lower left. (OSU Archives photo)



These OSU Archives photos go back to that day, April 13, 1913, of the planting of these elms. We do not know who these people are, but it obviously was a big event for both students and faculty.



Elm disease threat. . .

(Continued from page 1)

because they came from the heart of the campus where thousands walk daily.

The elms in those areas are planted only 30 feet apart, MacVicar observed, so gaps were created as a protective measure. There is no known cure for the disease, he emphasized, though chemical

injections can slow the disease process in individual trees.

The two-block long plantings on either side of lower campus walkways were not disturbed. Trees there are planted 60 feet apart, Woosley said. "We'll watch them carefully for disease signs and other pest problems."

Concerned about Dutch elm disease and trees in your yard? See OSU Extension story on page 8A of Growing Your Own section.



Charles Woosley

The canopies of trees that have become so well known on some campus walkways will be retained with the 10-year management plan, he added.

OSU experts agree that the disease is sure to come. They have watched the spread from east to west in the country and state. Trees in Portland already have been affected.

The elms make up about a third of the trees on campus, Woosley stated. "They were all planted 50-80 years ago. Because there are so many of them, our new 10-year tree plan has to be centered around removal and replacement with trees of other varieties.



The experts agree that thinning is necessary, but it still was a sad day during spring vacation when some trees came down. (Tom Warren photo)



Chemical injections can slow the disease process and it is very important that there be gaps between the trees so that the virus is not spread through interlocking roots. These were planted too close together and will have to be thinned. (Tom Warren photo)

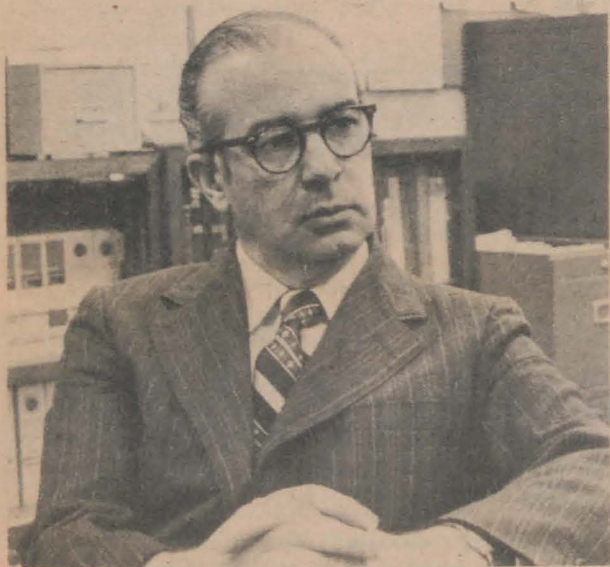
COLLEGE of LIBERAL ARTS at Oregon State

By CHUCK BOICE
Editor

Liberal arts studies at Oregon State have been discussed, argued about, and examined almost without pause for nearly half a century within the OSC-OSU family and within the higher education hierarchy of the state. Yet a great many Oregonians don't know that OSU has a College of Liberal Arts, the college's new dean contends.

"Our most serious problem," said Dean David J. King, who came from New York to succeed now Dean Emeritus Gordon W. Gilkey last June, "is simply a lack of visibility regarding OSU's College of Liberal Arts. Outside of our immediate area and at other universities, I don't think our College of Liberal Arts is seen as a viable option for a student who wants to go to a college of liberal arts. They don't even know we exist."

Stated briefly, he thinks it's a program that would be very advantageous for a great many students -- if they knew about it.



Dean David J. King says the big problem is lack of visibility. . .

What are the advantages for a liberal arts student who wishes to study for a bachelor's degree in one of the 16 fields (see major program list below) at OSU?

They are significant. One of the main ones is that the liberal arts student can have a very wide range of elective courses and activities that would not be possible at a small liberal arts college.

"We've got the best of both worlds here," the dean said. "We've got a major land grant institution with a wide range of resources to draw upon." Students can come here in the College of Liberal Arts and also take courses in business, agriculture, education, home economics and other fields which a small liberal arts college does not have."

He added that Oregon State also has an emphasis on major collegiate men's and women's sports, something very important to some students. Many other activities at OSU also are at a level only possible at a major university.

"Needless to say, another great advantage of a state institution is financial. It is the only higher education that is financially practical for many families."

But liberal arts at OSU is far from the typical big university program with emphasis on graduate study.

"While Oregon State offers the advantages of a major Land Grant university, the College of Liberal Arts here is basically an undergraduate institution and our focus is on instruction of undergraduate students. This, of course, is the same focus the private liberal arts college has."

Dean King emphasized that he held the small, private liberal arts colleges in very high regard.

"I spent over half my life in private education, including small, private liberal arts colleges, so I am very much aware of their importance. They have made a great contribution to this country and, hopefully, will continue to do so. For one thing, they have been innovative in higher education in a way in which most public institutions have not been able to be."

Page 4, April 1978, OREGON STATER

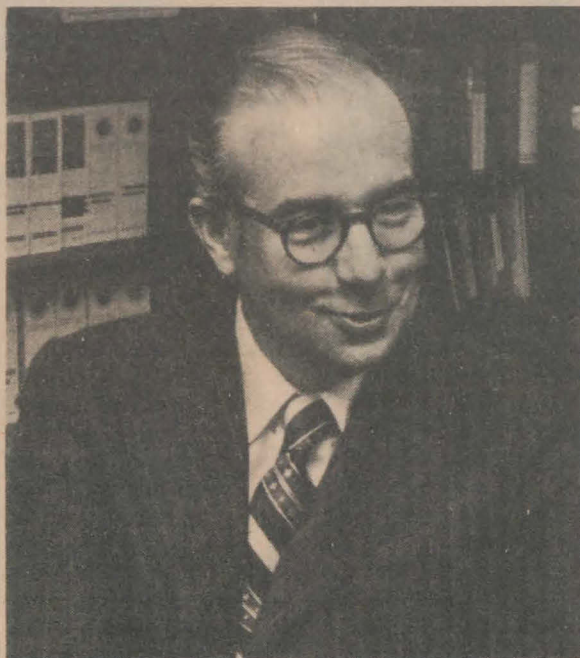
King graduated from Boston University and had graduate work at the Universities of Maine and Maryland. The 47-year-old dean was professor and chairman of the Department of Psychology at New York State University College, Oswego, for eight years and acting dean of research there for one year before coming to OSU last summer. Prior to that, he was chairman of the Department of Psychology for five years at Albion College, a highly-regarded private liberal arts college in Michigan.

If there is one thing that impressed King with the liberal arts programs of the small private colleges it is that the undergraduate effort is not dominated and drained by PhD study programs. In practically all cases, they do not have PhD programs. Graduate school domination is a criticism of some large universities where undergraduate liberal arts students often spend a great deal of time with teaching assistants.

"When a liberal arts student comes here, to Oregon State University, he is taught by the professors with one or two rare exceptions. He's not instructed by graduate assistants. I don't mean to put down graduate teaching assistants, but they're not the professors."

At present, CLA graduate students at OSU may receive a Master of Arts in Interdisciplinary Studies (MAIS), a degree designed to provide a broad, advanced knowledge from three different disciplines.

Several other master's programs have been discussed. These are programs that would fit well with undergraduate study and be appropriate to the overall mission of the University. The 1932 state allocation system, by which a liberal arts emphasis was assigned to the University of Oregon and a science and technology emphasis to OSU, remains but the Oregon



“. . . a major Land Grant institution with a wide range of resources to draw upon.”

State Board of Higher Education has agreed to examine each of the proposals for new graduate programs in the liberal arts at OSU on its own merits.

"Right now, we have one proposal from the Department of Economics that is down at the chancellor's office," King pointed out. "There are one or two other proposals in the works ready to be examined by the curriculum committee here. I just honestly don't know the probability of these being accepted. But we are going to give it a try."

"One thing I do wish to emphasize. If we do have more graduate programs in the College of Liberal Arts, we will never allow the graduate programs to dominate the undergraduate education of students. It's a danger that you have to be concerned with. Graduate students assist and stimulate undergraduates, but the faculty must not step back and let the graduate students substitute for the important role of the faculty. That's something that I will not let happen."

Enroll at OSU for liberal arts

study? There is much to recommend

this for many, says the new dean.

The "best of both worlds" is possible.

The new dean conceded that it has not taken him long to note some special needs in his college that currently enrolls about 2,100 of the University's 16,500 students.

"I'd say our greatest need is for a social sciences building, particularly for those areas of social science that involve laboratories -- anthropology, psychology, part of sociology. The physical facilities of our Art Department and the drama section of our Speech Communication Department also are areas of need."

On the other side of the picture, King can point with pride to the new radio and television facilities in MU East. Through excellent planning and good fortune to have space in the conversion of a fairly new dormitory building, these facilities have been termed excellent by professionals in the fields of radio and television. Modern languages have excellent facilities at OSU, the dean added.

But a long-range plan for development is needed.

One thing the dean is doing to spread the word concerning CLA is to publish a news tabloid for the 5,000 alumni who graduated from CLA or what earlier was the School of Humanities and Social Sciences. Others who wish to be placed on this mailing list may write to College of Liberal Arts, Social Science 205, OSU, Corvallis, OR 97331.

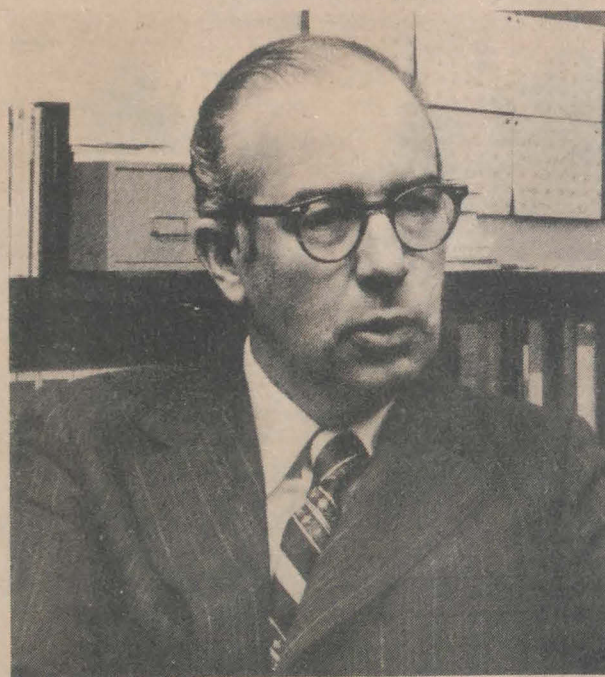
CLA has another very important role at OSU. That is to offer minor fields of study and elective courses in the arts, humanities and social sciences to all of the students of the University.

"The role of liberal arts -- science and liberal arts -- is to produce educated citizens," King declared, "to give them, the students, a common intellectual base from which they can make rational and intelligent judgments about economic, social, political issues and to aid them in making reasonable choices on ethical and moral issues. Not that we try to teach them ultimate answers. We teach critical thinking and hope that they will be able to arrive at those answers as intelligently as possible. We do hope to give them the fundamental alternatives that people have to face throughout their life, and we stretch their intelligence to look at alternatives."

The dean was careful to point out that he and his faculty were not patterning CLA after some particular university or universities.

"We shouldn't pattern ourselves after a Harvard which has a very unique clientele, or after any other institution. We, ourselves, should work out how we are going to accomplish our educational mission. We certainly would want to know what Harvard is doing. There are some good ideas there and elsewhere, but we shouldn't just blindly march down that or any other trail."

(Continued on next page)



“. . . we will never allow graduate programs to dominate undergraduate education of students.”

Faculty News

ALVIN R. MOSLEY, Associate professor of crop science, has joined the Agricultural Experiment Station to work to improve potato production in Oregon. Mosley received his doctorate from OSU and then did research on potatoes and other vegetables at Ohio State University. . . GERALD O. (JERRY) GEORGE has been added to the staff of the Columbia Basin Agricultural Research Center near Pendleton. His specialty is erosion and he will study the effects of terracing, soil movement on fields and water runoff. . . W. L. (Andy) ANDERSON, a member of the OSU Extension Service for over 20 years, now includes 4-H youth development programs as part of his job. Anderson will develop programs to assist young people to effectively participate in community affairs.

R. KENNETH GODWIN, chairman of the political science department, and W. BRUCE SHEPARD, associate professor of political science, have received a \$38,400 grant to continue a study of factors that influence population control policies in developing nations. This phase of the study will look primarily at South America, Africa and Asia. . . DWIGHT S. FULLERTON, associate professor of pharmacy, has been awarded an \$8,900 grant from the Oregon Heart Association for basic research on digitalis drugs used to treat heart ailments. Eleven OSU scientists have received similar Heart Association grants in the last 15 years.



Charles H. Dailey



Richard A. Ohvall



Kenneth W. Hedberg

RICHARD L. CLINTON has been appointed associate dean of the College of Liberal Arts. Prior to his appointment, Clinton was assistant dean for research and faculty development. His new position consolidates three part-time assistant dean positions and is considered the second ranking administrative position in the college. . . JOHN RINEHOLD has been appointed to a new half-time position as pesticide impact assessment coordinator with the OSU Extension Service. . . An OSU graduate, ALLAN MATHANY, has been named director of budgets. Mathany has been manager of records and information systems in the budget office since 1975.

CHARLES H. DAILEY, professor of physical education, will receive an outstanding alumnus award from his undergraduate alma mater, North Central College, Naperville, Ill. An OSU faculty member since 1947, Dailey has served as educational consultant and teacher in over 15 countries. In 1966, as a result of his work in Thailand, he was decorated with the Most Noble Royal Thai Crown by the

King of Thailand. He has coached Thailand's Olympic teams in boxing, basketball and volleyball and, in 1963, he was named to the Helms Athletic Hall of Fame for his work as an "ambassador with a basketball". . . DONALD R. BUHLER, professor of agricultural chemistry, will serve on a National Research Council's subcommittee to evaluate toxic substances in the nation's drinking water. . . RONALD MINER, department head of agricultural engineering, has been named to a 10-person national committee to study odors. The Environmental Protection Agency requested the report from the National Academy of Sciences.

KENNETH W. HEDBERG, professor of chemistry, has been elected a member of the Norwegian Academy of Science and Letters, the highest recognition given by that country. Hedberg is an international authority on fundamental properties of molecules. . . RICHARD A. OHVALL, dean of the School of Pharmacy, spent a month in Nigeria helping a new university expand its health science program. . . JOHN H. NATH, professor of mechanical engineering, recently went to Japan to lecture and do research in the area of underwater ocean structure engineering.

The highest honor of the American Meteorological Society, the Rossby Research Gold Medal, has been won by JAMES W. DEARDORFF, an OSU researcher in atmospheric sciences. His research has centered in the lowest few thousand feet of the atmosphere and his findings are expected to enhance forecasting in the future. . . WILLIAM H. TAUBENECK, professor of geology, has been honored by the Oregon Academy of Science for research into the Northwest's geological past. An OSU faculty member since 1951, Taubeneck was the year's only recipient of the coveted citation for significant scientific contributions.

ROGER KING, professor of English education, spoke on the "Challenge to the Profession: Meeting the Challenge at OSU" at a recent National Conference on English Education in Minneapolis, Minn. . . RICHARD WEINMAN, professor of speech communication and director of Broadcast Media Division, participated in a debate / discussion on "The Media, Menace or Messiah" at a recent gathering of Portland elementary school principals. . . R. G. HICKS, director of OSU Transportation Research Institute, has been named to a steering committee to help developing countries design, build and maintain roads in rural areas. The U.S. Agency for International Development will sponsor the nineteen transportation experts in the international aid effort.

JOHN PHILLIP KING, assistant professor of religious studies, has been elected President of the American Academy of Religion and the Society of Biblical Literature for the Pacific Northwest region. . .

LESLIE G. DUNNINGTON, assistant director of the OSU Counseling Center, has traded posts with a counselor at Linn-Benton Community College. They hope to better understand problems of students who transfer from one campus to the other.

WILLIAM APPLEMAN WILLIAMS, noted OSU historian, was honored by the Organization of American Historians at its annual meeting in New York City this month. One session was devoted to his historical writings.

"This is truly a unique honor for Professor Williams," said Thomas C. McClintock, chairman of the OSU history department. "It is quite extraordinary for a scholar to be so honored while he is still living."

Williams has written 14 books and published more than 100 articles in professional journals. His latest book is "Americans in a Changing World: A History of the United States in the 20th Century." Soon to be published is an essay, "Empire as a Way of Life."

Nationally recognized as one of the leading New Left historians, Williams is known among fellow historians for his economic view of the origins of American foreign policy.

Williams has been at OSU since 1968. His advanced degrees are from the University of Wisconsin. From March to December of last year, he was on a Fulbright Scholarship in Australia where he taught American history and foreign policy.

"...the 'small' liberal arts college within the major Land Grant Sea Grant university..."

Good faculty is essential to any good university program, and the dean feels CLA is blessed there. "It's a diverse faculty. One of the important aspects of a liberal arts education is to expose students to different points of view. Of course, they argue occasionally, but that's the way it should be."

Oregon State, Corvallis, and the Northwest proved very attractive to Dean King and, obviously, the same was the case for some outstanding faculty.

It's easy to become caught up in Dean King's enthusiasm and the logic of his approach.

One can quickly think of dozens of natural ties between liberal arts study and the offerings that are unique to a major land grant university.

OSU, for example, not only has a number of courses in computer science, but is a major computer center providing scientific consulting service and support of computer science programs as well as instruction in computers and research basic to computers and computer systems. Today, the computer may play an important role in many liberal arts fields. Oregon State is not only a Land Grant university, it is one of only 11 universities in the U.S. that is both a Land Grant and a Sea Grant institution. The almost unmatched opportunity at OSU to study our oceans can add to one's program in geography and some other fields. OSU is known internationally for its work in food production, food technology and nutrition, areas of great interest to sociologists, political scientists and others. And it's not always a matter of formal courses. The intermingling of faculty and students in these different, but the nonetheless related, areas can add much to the learning process.

The possible ties of the "small" liberal arts college within the major Land Grant, Sea Grant university are numerous -- and very exciting.

It may be that after nearly 50 years and a long climb led by Dean Gordon Gilkey and others, liberal arts at OSU will become visible and provide "the best of both worlds" for many more students.

Curricula.

The College of Liberal Arts offers basic and professional courses and certificate, interdisciplinary, and departmental programs. All of these courses allow you to expand your capabilities and realize your potential.

BACHELOR'S DEGREE PROGRAMS are offered in:

American Studies, an interdisciplinary major with concentrations in American society, culture, and institutions and including ethnic studies and women studies.

Anthropology, with concentrations in physical anthropology, archaeology, linguistics, and cultural anthropology.

Art, with programs in graphic design, jewelry and metal design, photography, ceramics, fibers, sculpture, printmaking, painting, and art history.

Economics, providing a foundation for law, business, public service, and offering graduate courses.

English, with concentrations in literature and creative writing.

Foreign Languages and Literatures, with major programs in French, German, and Spanish. Foreign study centers are at Poitiers, France; Stuttgart, Germany; Waseda University, Japan; and Guadalajara, Mexico.

History, providing background for law, business, and journalism.

Liberal Studies, with individually designed thematic programs including emphasis in at least two departments of the College of Liberal Arts.

Music, with concentrations in applied music, music history and literature, and theory and composition.

Philosophy, providing preparation for graduate study in law, theology, or other areas. (A double major is encouraged.)

Political Science, with areas of emphasis in American government, public policy, public law, public administration, political theory, political behavior, international politics, and comparative politics.

Psychology, providing general and professional preparation for graduate study in psychology and related fields.

Religious Studies, with attention to major religious movements and to non-Western religious thought. Instruction is nonsectarian and seeks an open analysis of all points of view.

Sociology, providing background for law, corrections, public service, and graduate study.

Speech Communication, with concentrations in broadcast media communication, individual communication studies, public, group, and interpersonal communication, speech communication science and disorders, and theater arts.

Technical Journalism, with a minor required in one of the following: aerospace studies, agriculture, business, engineering, foods and nutrition, forestry, home economics, military science, naval science, oceanography, pharmacy, safety studies, or science.

Certificate Programs. Human services, Latin American affairs, and manpower management are the programs in which you can earn a certificate. You can take a certificate program concurrently with any bachelor's degree program. Courses for a certificate are selected from two or more departments.

Teacher Certification. You can earn a Basic Norm in art, English, journalism, language arts-social studies, foreign languages and literatures (French, German, Spanish), music, social studies, and speech communication. Also available are Standard Norm programs in English education, language arts-social studies education, and social science education. If you are interested in qualifying for a State Teacher's Certificate, consult your adviser or the Director of Advising in the College of Liberal Arts.

THE ALUMNI LODGE

Plan to visit Southern California this summer! Now the Alumni Association of the University of California, Riverside makes it possible. You'll stay in The Alumni Lodge and have Southern California at your fingertips.

We are again offering low rates this year for guests staying at the Alumni Lodge. \$7.95 per person per day. If you stay a week, you will only be charged for six days.

Using our facilities you're within thirty-five minutes of Disneyland, Knott's Berry Farm, and Lion Country Safari. Los Angeles, mountains, beaches and the desert are within forty-five minutes.

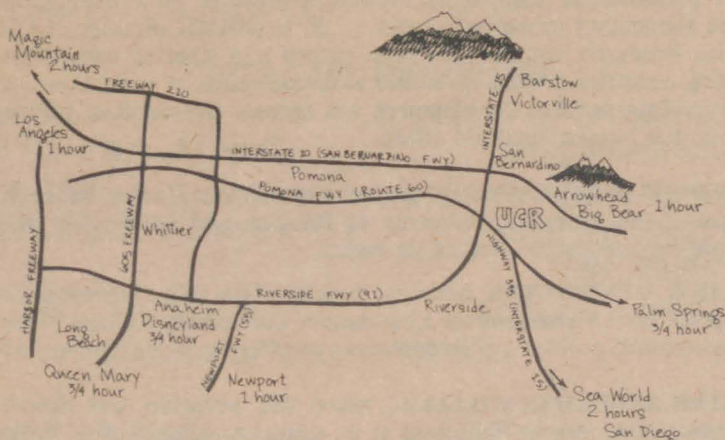
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Maze of regulations 'bureaucratize'

Colleges have become "bureaucratized" by a growing maze of government laws and regulations, a special Oregon State University study shows.

The mass of red tape associated with many federally-funded programs is said to have exasperated administrators, angered students and frustrated faculty. Included are equal opportunity and nondiscrimination programs, financial aid, records policies, research restrictions, etc.

OSU was one of 24 U.S. institutions asked to do a study of the impact of government programs and rules on higher education. The project is sponsored by the Alfred P. Sloan Foundation in the interests of reconciling conflicts between campuses and government.

While many of the federally-funded programs have helped higher education dramatically, they have brought the burden of government bureaucracy with them, the study points out.

"No one likes the red tape but it was the inevitable consequence of accepting federal money for student financial aid, buildings, research, etc.," said Stefan D. Bloomfield, study director. He is associate director of planning and institutional research for OSU and an associate professor of business administration.

The university's two vice presidents and a dozen deans and directors helped develop data. OSU was the only Northwest school involved in the national project, was one of two Land-Grant institutions (Ohio State was the other), and was among the few large institutions to do a comprehensive, cross-campus study. Ohio State, for example, limited its study to the Agricultural Experiment Station and veterinary medicine school.

"No single government program or set of governmental regulations is overwhelmingly burdensome," Bloomfield observed. "The distress has come because there have been so many programs and regulations, covering so many areas, and imposed in such a short time.

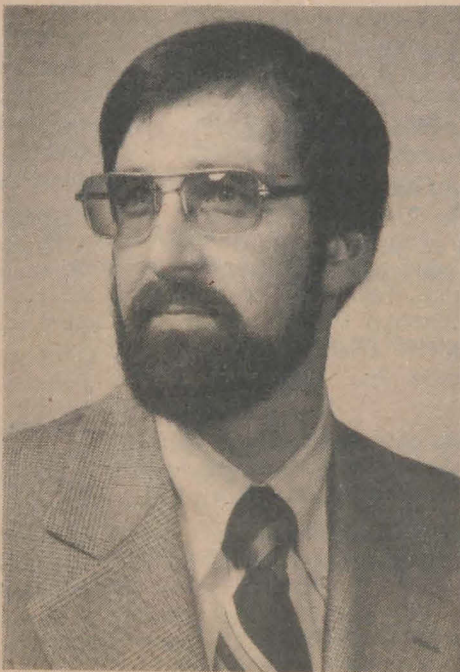
"We could handle any reasonable number of governmental regulations. But college administrators are just being run ragged trying to find enough resources to meet all of the enormous variety of rules to which OSU is now subject," he added.

Colleges have had to adopt an air of legalism, Bloomfield stated, because of the increased reporting requirements and the increased substantiation and justification that's involved in working with federal agencies now.

In the area of student services, OSU already had moved to implement most of the new federal guidelines related to protection of student civil rights, privacy of records and recruitment of minorities, Bloomfield observed.

The regulations that prompt the extra \$10,000 in costs do not provide for reimbursement, he explained, so the university has to cut some other programs to come up with the money.

"The lack of reimbursement is one of the major complaints that colleges have



Stefan D. Bloomfield

Wirth successor named

Walter F. Abel, a minister in eastern Washington for the past 20 years, has been named associate director of development for special giving at Oregon State University.

In the assignment, Abel will be responsible for coordination of special fund raising activities of the university. Special emphasis will be on obtaining financial support from grant-making foundations and private business.

The appointment was announced by James W. Dunn, director of development and executive secretary of the OSU Foundation, which solicits, receives and administers private gifts to the university.

Abel succeeds Donald Wirth, who becomes director of alumni relations at OSU on July 1.

Abel was ordained as a Roman Catholic priest in 1958 and has been the pastor at churches in Spokane, Cheney and Ritzville. He was a chaplain for five years at Eastern Washington University. He also did considerable work as a fund raiser, directing fund-raising drives that helped build four churches, four halls and two parsonages.



Walter F. Abel

He earned a bachelor's degree from Boston College and the master's degree from St. John's Seminary. He also did graduate work at Eastern Washington and North American College in Rome, Italy.

To head Baro, Beaver

Editors and business managers of the student newspaper and yearbook at Oregon State University have been appointed for the coming school year.

Phillip McClain, junior in technical journalism, 3246 Forest Gale Dr., Forest Grove, will head the newspaper, Barometer. He is design editor this year.

Business manager will be Mark Morrison, junior in business, 1890 Valley View Drive, West Linn. He is assistant business manager this year.

Jane Fisher, junior in business, 13940 NW Burton, Portland, will edit the OSU yearbook, Beaver. She is on the yearbook staff this year.

David Mann, senior in business, 989 Park Blvd., Ontario, will be the business manager of the Beaver. He is assistant business manager this year.

Appointments to the student publication posts are made by a publications board composed of OSU students and staff.

IE seniors' papers tops in competition

Oregon State University industrial engineering seniors swept top honors for 1978 in western U.S. technical paper competition sponsored by the American Institute of Industrial Engineers.

The two OSU papers won first and second in both written and oral competition, "a seldom-realized achievement by a school," said Prof. Tom West, faculty adviser for the student AIIE chapter. He is also teacher of the analysis and design projects course from which the papers developed. Engineering students from 12 western states were involved in the regional contest.

Advances to competition in Toronto

J. Randall Riggs of Corvallis won the \$100 first prize and became a finalist for national competition May 20 in Toronto, Canada.

Robert Cowgill, Albany, and David Isett, Newport Beach, Calif., presented a joint paper that won the \$50 second prize at the regional contest in Pomona, Calif.

OSU also claimed the first prize last year, West noted. A team of three students prepared the winning paper then. They were Kirby Bartholomew and Ross Hangartner, Portland, and Carl Gelderman, Coos Bay. All have graduated and are now at work as engineers in Oregon.

The winning Riggs paper focused on alternative designs for statewide field offices of the Oregon Department of Motor Vehicles. His comprehensive model was developed from data collected in a variety of locations, including Portland, Salem, Eugene and Corvallis. Portions of his evaluation procedure have been put to work by the Department of Motor Vehicles, according to West.

Cowgill and Isett based their paper on a series of design studies performed for the port of Newport.

about many new federal programs and guidelines," Bloomfield continued.

"A further source of extreme institutional frustration is the needlessly complex, costly and occasionally unfair application process for federal funds," the report emphasizes.

"Needless burdens represent wasted opportunities to society itself, and to whatever extent governmental agencies and educational institutions can work together to address those areas of ineffective or wasteful resource obligations -- to that extent society will surely profit, the 116-page report concludes.

Some other observations:

The estimated cost of bringing OSU's buildings and grounds into full compliance with the Occupational Safety and Health Act (OSHA) is nearly \$6 million. Another \$2 million in building renovations will be needed to comply with federal regulations requiring equal access for handicapped students and staff.

Research projects and instructional efforts have been hampered by restrictions on the use of human subjects in research (even for answering questionnaires) and strict regulations on the use and care of laboratory animals. Studies involving marine mammals and other protected and/or endangered species have been abandoned because of difficulties in obtaining permits to collect such animals.

The body of laws and regulations "having the most dramatic impact at all levels of university operations," however, has been that dealing with nondiscrimination in employment, Bloomfield said. Six federal acts and orders and several state statutes are involved now in hiring procedures by public colleges, he continued.

And though OSU developed the first Affirmative Action plan approved by the U.S. Department of Health, Education and Welfare in the Northwest, the implementation has been "costly, time consuming and emotional," it was noted.



Photos such as this helped with a new count of seals and sea lions on the West Coast. Bruce Mate, OSU oceanographer, flew the coast from upper Canada to central

Mexico 11 times in making his comprehensive count, which will be a significant aid to management guidelines in the future.

Seal, sea lion figures revised

The West Coast has more seals and sea lions than was thought.

Earlier estimates were based on observations at only a few places. The new figures come from a comprehensive count made by Bruce Mate, Oregon State University oceanographer and international authority on marine mammals. Findings will also provide valuable management guidelines for the future.

In a small rented plane, Mate flew the full length of the West Coast 11 times (from upper Canada to central Mexico), taking pictures monthly of seals and sea lions along the shore line and on off-shore islands. This work took 1,100 hours of flying time, covered 90,000 miles, and produced 12,000 photos and slides from which seal-sea lion counts were made.

The study, started in 1974, produced these findings:

1. The harbor seal population was counted at 12,000. This is three times the total that had been projected from earlier estimates and counts made at only a few sites along the Coast.

2. The count of 88,000 California sea lions was twice previous estimates. Big seasonal differences in numbers were noted at various sites. Largest numbers were counted during the breeding season (June and July) in southern California and Mexico, when mature animals are found ashore. During the non-breeding season, males undertake an unexplained northward migration all the way up into Canada.

3. The northern (or Steller) sea lion count was just over 5,000. This is similar to historical estimates but the southern extent of the species range is shrinking to the north.

All three mammals are found along the Oregon Coast, Mate noted.

The northern sea lion breeds along the Oregon Coast. It is seen at the Sea Lions Cave and from state parks, particularly at Cape Arago, near Coos Bay, in the late spring and through the summer. Larger numbers are found in the Aleutian Islands of Alaska, where a quarter of a million are estimated to live.

The harbor seal also breeds off Oregon but can be more elusive, says Mate. It can be found in most estuaries and on many offshore rocks. The animals seem to be getting more numerous in the Columbia River and some other Oregon rivers. They can be seen at low tide in Tillamook, Netarts, Siletz, Alsea, Winchester and Coos bays as well as the Columbia and Rogue rivers.

The California sea lions come to

Oregon in the fall and winter from their June-July breeding spots in southern California and Baja, Mexico. Smallest of the sea lions, it is known for its bark and for its talent as a trained circus and carnival animal.

The first-ever comprehensive census of this species by Mate also showed some changes taking place in the distribution of the seals and sea lions. The Steller sea lion population, for example, was found not to be breeding in some of its historic southern areas. The reason is unknown but may be related to competition from California sea lions, says Mate.

Interactions of the species have also been spelled out better than ever before by the study, the scientist added.

"Seals and sea lions mix much of the year but stay in separate, discrete colonies by mating time," Mate observed. All are members of the family known scientifically as pinnipeds. Walrus are also pinnipeds but are not found in the OSU research area.

You can tell seals from sea lions

"There's an easy way to tell seals from sea lions," says Mate. "Sea lions walk on all four flippers and have external ears. Seals drag their hind flippers on land and are without external ears."

Despite widespread interest in seals and sea lions, "very few studies have been made on entire species populations and migrations," it was noted.

Mate ranks as one of the leading researchers in the world on marine mammals, having published extensively on the subject.

"All seals and sea lions learn very quickly," the 31-year-old scientist said.

"Female seals and sea lions have one pup a year," he continued. "Twins are very rare. Seals can give birth in water. Their pups are instant swimmers. Sea lion babies don't know how to swim very well at birth, however, and stay close to mother for quite a while. They may suckle for periods up to one year."

The largest of the pinnipeds is the elephant seal. Some have been reported to be as long as 22 feet and to weigh more than 2 tons. They are concentrated from San Francisco to the middle of Baja, Mexico. Mate's special study "found" them in some places where they had not been reported before, including some new breeding areas. "It was the first

time some areas had been looked at in a serious, scientific way," he stated.

An official count of elephant seal numbers was not announced because "the circumstances under which we surveyed that area didn't provide a meaningful figure," Mate said. The numbers are estimated in the 30,000-65,000 range.

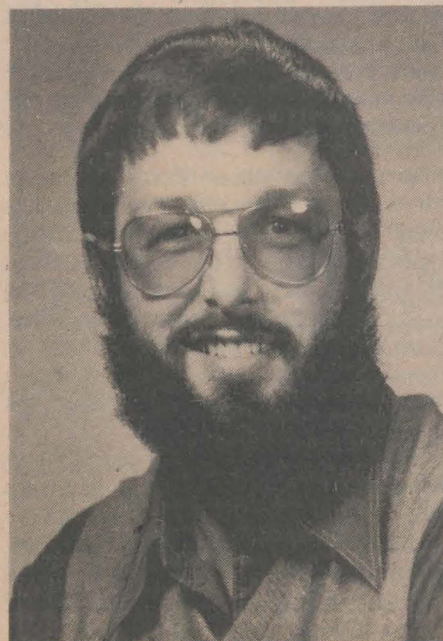
Elephant seals almost became extinct during the late 1800's, Mate said. Because they do not flee when approached by man, whalers hunted elephant seals for their high grade and yield of oil. Now the elephant seals and other marine mammals are protected by the Marine Mammal Protection Act in the U.S. and by Mexican laws.

Mate's research was supported by the national Marine Mammal Commission, established in 1972, to encourage research on marine mammals and to develop wise management programs, and by the Marine Mammal Division of the National Marine Fisheries Service.

The seal-sea lion count was made in "painstaking fashion," he observed. The photos and slides were mostly taken of breeding "rookeries" and "hauling" areas, places where seals and sea lions rest out of the water.

The photos-slides were then projected onto a screen and the marine mammals counted one by one after each month's flight. Robin Brown, a master's degree candidate in oceanography, assisted in this phase of the project.

Mate soon found out that to avoid



Bruce Mate

'Library' for plant clones

The nation's first genetic lending library will be built on OSU's Lewis-Brown Farm near Corvallis.

The State Board of Higher Education last month approved establishment of the facility to be built later this year by the U.S. Department of Agriculture. The structure, known as the Clonal Germplasm Repository, will contain primitive genetic material for pears, filberts, strawberries, blackberries, raspberries, cranberries, blueberries, mint and hops.

When growers or plant breeders want to obtain material from the repository, plant cuttings will be provided from the basic genetic material.

"Primitive plant forms containing unique genetic traits are disappearing at an alarming rate," said Melvin Westwood, OSU horticulturist. "By maintaining a basic collection in the Clonal Germplasm Repository, we will be able to make crossbreeds for traits like insect and disease resistance without losing the primitive material."

The USDA now maintains several repositories of seed germplasm, but the OSU facility will be the first Clonal Germplasm Repository and will have the actual plants growing on the site. Researchers at the university have been collecting and growing rare and valuable plants for many years and the materials from those plants will help form the basis of the lending library.

Eleven other germplasm repositories are scheduled to be established throughout the country and each will maintain genetic plant material best suited for growth in that area.

disturbing and scattering the seals-sea lions, the plane had "to come in flat" without making turns or dives that increase motor noise. He flew at heights of 500-800 feet. Plane speeds of about 90 miles an hour allowed him to take a sequence of photos out of the open window.

"It's the only way an accurate count can be made over a large area in a short time," Mate stated.

He has helped author a handbook on field methodology for studying Antarctic seals and expects to publish several technical papers on the latest work.

Impact on salmon numbers to be studied

Seals and sea lions are "opportunistic fish feeders" and are sometimes charged with hurting fishing in some estuaries and the rivers that drain into the estuary, Mate observed. He has a study underway now on the Oregon Coast to better define their feeding habits and impact on salmon numbers.

The seals-sea lions are food themselves, Mate observed, for killer whales and sharks. "I saw a killer whale eat a Steller sea lion in two bites. One killer whale was found with 11 seals in its stomach and one shark with 6."

In a new upcoming project, Mate hopes to pinpoint migration patterns of seals and sea lions with the use of radio signal transmitters placed on some of the animals.

"Though the census showed more seals-sea lions than had been thought, the counts are essentially conservative estimates of how many are really there," Mate summarized. "Some weren't counted because they were off feeding or just taking a swim."

"In some places the counts now are only a fraction of what they once were. In other places, the animals are definitely on the increase." Some of these changes may be redistribution of animals from other areas. As the first good baseline count, it is not known if the total numbers of any species are really up or down, he said.

All Oregon geologically young

Oregon became a state and part of the United States in 1859.

It became a part of the North American continent during the past 600 million years, says an OSU geologist whose Northwest research has received special recognition from the Oregon Academy of Science.

William H. Taubeneck, the only scientist to win an Academy citation this year, points out that "all of Oregon is relatively young geologically." It wasn't a part of the North American continent anciently.

The western coastline in the distant past was about where the Oregon-Idaho boundary is today, he says.



Wm. H. Taubeneck

Taubeneck has studied 150-175 million year old granite rocks in northeastern Oregon for nearly 30 years. Moving eastward into Idaho, he has found much older rocks and has been able to plot "an important geologic line."

The line runs north from Nevada, up through western Idaho to the vicinity of Lewiston. It then turns sharply west into Washington.

"Everything west of the line has been added to the continent since the Cambrian geologic period, that is within the last 600 million years," Taubeneck reports from research that has produced nearly 50 scientific papers and publications.

The line is lost about 50 miles into eastern Washington, he explains, because the granitic rocks are then covered by much younger rock formations (the Columbia River basalts, which reach thicknesses of several thousand feet.) "The line couldn't be followed farther in eastern Washington without extensive and expensive drilling," Taubeneck stated.

Cascades largely a product of volcanism

The Oregon area was added to the continent, he continued, through lava flows and subduction -- a process where one piece of earth crust (a plate) is forced under another by the pressures of sea-floor spreading. The spreading occurs as molten lava flows upward from the depths of the earth through the cracks between the plates.

"The subduction zone 200 million years ago was near Mitchell, Oregon, about 60 miles west of John Day," says Taubeneck. A giant offshore trench was formed where the ocean-covered plate was diving under the edge of the con-

continent, he has determined from his studies. The subduction process and later volcanism extended the edge of the continent westward.

"The Cascade Mountains undoubtedly are largely the product of volcanism that was triggered by the subduction process," Taubeneck observed. OSU oceanographers currently are studying a mammoth trench off South America where subduction is occurring, he added. Just inland from the trench are the Andes Mountains.

The build-up of the North American continental land mass continued with time, according to Taubeneck, "ultimately producing the Oregon as we know it today." Apparently subduction is still continuing on a small scale.

It is possible, Taubeneck says cautiously, that the subduction process or the shifting of the earth plates "also caused thousands of fractures (dikes) in the earth's crust of the Northwest." These were concentrated in the northeastern corner of Oregon, western Idaho, and upward into the Pullman-Lewiston-Walla Walla triangle of Washington.

Taubeneck has given the name of "Chief Joseph dike swarm" to the unique geologic region because Joseph, Oregon is about in the center of the 160-mile-long area and out of "admiration for that great Indian leader."

"I'm not fully convinced that subduction caused the thousands (30,000) of dikes," says Taubeneck. "Let's wait for more research findings."

One of the things that Taubeneck already has discovered is that the basalt flows are not the same in chemistry, mineralogy or physical features. "There are distinct differences," he says.

"I'm excited about the findings and so are the scientists from the U.S. Geologic Survey. They've given significant help already in the complex and costly analyses of rocks." And USGS will provide funds for future field research. Taubeneck's earlier work has been supported by the National Science Foundation.

Among the greatest outpourings of basalts in the world

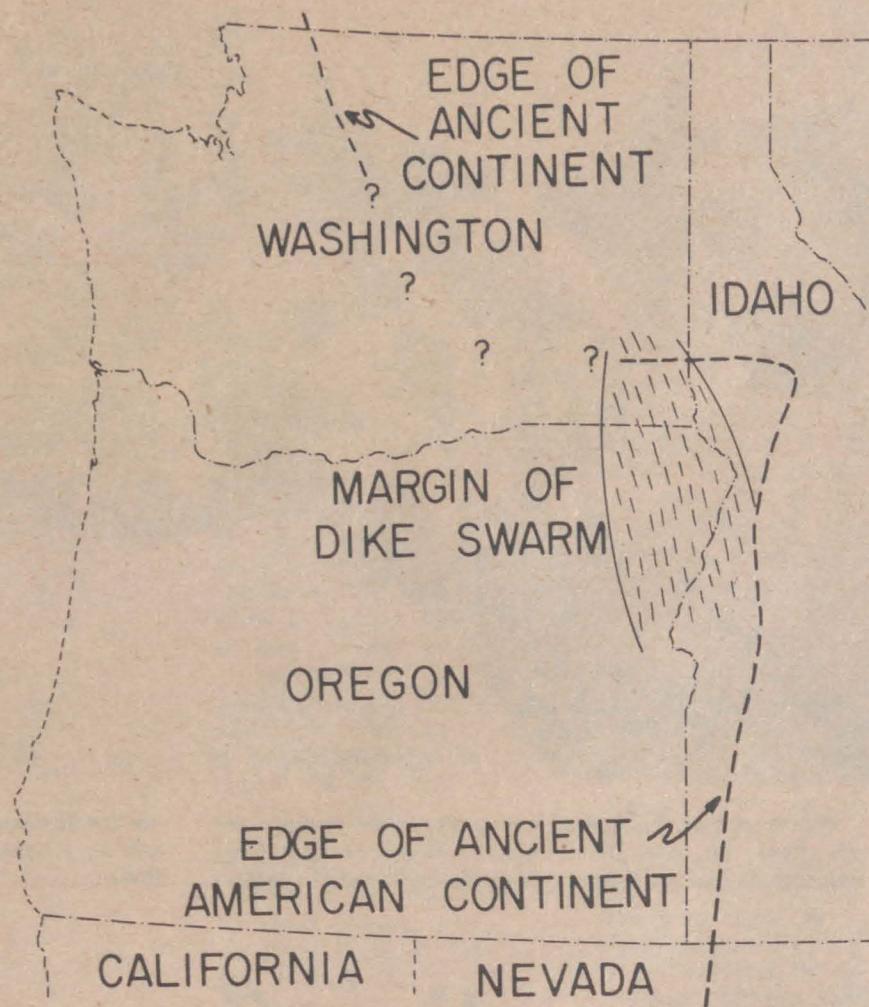
The massive flows of molten rock that came from the thousands of dikes are described by Taubeneck "as among the greatest outpourings of flood basalts or plateau basalts in the world."

The basalts filled and covered areas occupied by former sea floor basins and overlaid relatively new earth crust, Taubeneck pointed out.

"The Columbia River basalts are found from around Boise north to Coeur d'Alene in Idaho; around Spokane, Walla Walla, Yakima and Ellensburg in Washington; in northeastern and north-central Oregon and down the Columbia Gorge into the Willamette Valley. You can see them around Salem, at Oregon City where the falls are, and along the freeway going into Portland."

In the upper Minam River Canyon in the Wallowa Mountains, Taubeneck has found the oldest Columbia River basalt flows yet reported. They date back about 16 million years. More significantly, he said, is the finding "that these oldest flows are the 'most basic' of any flows yet found in Idaho, Washington or Oregon. They are high in iron and magnesium but low in silica and potassium."

More chemically diverse basalt flows have been found during the past two years in the Wallowa Mountain area than anywhere else in the Pacific Northwest, it was noted. "That's another reason why we're so excited about the possibilities of future discoveries," Taubeneck concluded.



OREGON was not on the American continental map 600 million years ago. The ancient coastline then was about where the Idaho-Oregon border is now, rock research by Oregon State University geologist William H. Taubeneck shows. There are gaps in the line in Washington (question marks) because much younger rocks have covered the granitic formations that Taubeneck has used to establish the ancient continental line. The young rock formations are the Columbia River basalts -- massive flows of molten rock that came from thousands of fractures (dikes) in the earth's crust around the area where the Oregon-Washington-Idaho borders meet.

NSF grant of \$329,000. . .

Legumes studied

The National Science Foundation has awarded Oregon State University a four-year grant totaling more than \$329,000 to finance continued study of the biochemical and physiological limitations of nitrogen fixation in legume plants.

Harold J. Evans, OSU professor of plant physiology who prepared the research proposal, will direct the study.

During the last two years, scientists working in the OSU Laboratory for Nitrogen Fixation Research discovered that most nodulated legumes used in U.S. agriculture give off hydrogen gas amounting to a loss of 30 percent of the energy supplied to the nitrogen-fixing nodules by the plant.

Control of energy loss studied

With this new funding the research group hopes to provide information on the factors controlling energy loss in legume plants and develop combinations of nodule bacteria and legume cultivars that can more efficiently use the plant energy produced by photosynthesis.

Evans said some bacterial strains already have been identified that contain a system to utilize hydrogen produced in the legume nodules. Use of the bacteria for inoculating legume seeds could prevent energy loss through hydrogen evolution and increase yield.

In addition to the new NSF grant which will support researchers Jay Peterson, Joe Hanus, Nancy Jennings and Frank Simpson, Evans said the Laboratory for Nitrogen Fixation Research also has received funding from several other sources.



Harold J. Evans

"Through a research grant and post-doctoral fellowships, the Rockefeller Foundation has provided about \$45,000 during the last year for projects in which John Postgate, visiting professor from England, and David Emerich and Robert Maier are engaged. Tomas Ruiz-Argueso, a visiting assistant professor from Spain and Norman Campbell, professor from the University of Manitoba, are supported by their home institutions," Evans said.

The program also has received \$28,000 annually from the U.S. Department of Agriculture to pay for greenhouse, field and laboratory evaluations of bacterial strains.

Steven Albrecht and Sterling Russell are conducting this phase of the work, he said. Also, Kevin Carter, working on biochemical aspects of nitrogen fixation, is supported by a grant from Monsanto Chemical Corporation."

Annual giving program brings in record sum

With twenty telefund solicitations now completed and four remaining to be conducted, the OSU Fund is well ahead of the previous years, especially in the number of donors to the Fund.

As of March 1, 6,556 donors have already contributed \$197,316 to the annual giving program. This compares to 5,527 donors and \$196,378 in total contributions at the same time last year.

More volunteers are reporting for the telefund crews than in previous years, says Gene Newberg, OSU Fund director. This enables more alumni to be contacted, and results in the new record.

During 1977-78 the OSU Fund expects to receive assistance from 12,700 donors with receipts totaling \$325,000.

More telefunds scheduled

With the assistance of the enthusiastic alumni volunteers, telefund solicitations have now been completed in twenty cities in Oregon, Washington, California and Idaho. Telefunds in Salem, Albany, Klamath Falls and Lebanon will be completed during April and May.

John Byrne, chairman of the OSU Fund Advisory Committee, reports that almost without exception alumni are pleased to hear from the University. They are keenly interested in the progress being made in its educational programs, and are happy to have been a part of it. They realize that without the help provided through individuals' contributions many of the quality features of OSU's educational programs would be lacking, and the young people of the state and region would be the losers.



A crew of 31 volunteers manned the phones for the Corvallis telefund March 7 and 8. During the two-evening effort, 1814 Oregon Staters were called, resulting in pledges of \$4,875.

When "Good" Is Not Good Enough

Most young people today get "good" educations which enable them to have average success in average positions, making average accomplishments.

But to reach their full potentials young people must be above average. And to do this they need and deserve not merely "good" education, but superior education which enables them to compete on favorable terms with graduates of the nation's best colleges and universities.

Oregon State University is committed to superior education. To help provide the financial resources which make superior education possible is the purpose of the OSU Foundation, for State funds pay only slightly more than one-third of the cost of education at OSU.

During this current fiscal year more than 16,000 individuals and organizations are expected to contribute approximately \$7,000,000 in cash, securities, real estate, insurance, and other property. Some are outright gifts; some are bequests by thoughtful

people; others are given to establish life income agreements through which the donor—and his spouse or other survivor, if desired—receive an assured income for as long as they live.

Gifts are used as directed to support student financial aid, faculty development, research activities and campus programs; to expand library resources; and provide instructional materials and facilities.

Most of the donors receive substantial tax deductions and reductions in estate taxes and costs which materially reduce the actual costs of their gifts. They all have the satisfaction of knowing they have helped provide excellent educations which enable promising young people to become successful leaders of business and the professions.

Detailed information on how to benefit superior education at Oregon State University is contained in literature which will gladly be sent to you upon request. Telephone us, or use the coupon below—without obligation, of course.



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- ☐ Giving Real Property to Benefit OSU
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Foundation given valuable property by the Laubenfels

The Oregon State University Foundation has recently received 294 acres of timberland, pasture and farm property near Corvallis as a gift from Mr. and Mrs. Peter M. Laubenfels. As a condition of the gift, the donors will receive an annual income equal to 6 percent of the value of the property for as long as either one lives.

Mr. and Mrs. Laubenfels also donated their residence at the farm and about eight acres of adjacent land which they are privileged to occupy during their lifetimes. The total appraised value of the two gifts is \$523,795.

Lake may be used for recreation

The property includes a 10-acre lake which the donors are free to use for recreational purposes. Adjoining the lake is a park-like area with huge maple trees which will be preserved in its natural state. Much of the remaining property is heavily timbered, and will be managed by the Foundation for perpetual yields of merchantable timber.

Because of its natural beauty the donated property will be retained by the Foundation for its educational value as a demonstration unit in timber management. The OSU Department of Fisheries and Wildlife Studies is expected to use the lake for research and classes in Fishery Biology, studying invertebrates and phytoplankton. The area will not be opened up to the general public since a program of timber thinning and harvesting will get under way

Dads, Moms Clubs finance awards

The OSU Dad's Club, organized in 1933, began its service to students of Oregon State University the following year by awarding two scholarships. As a measure of progress during its 45 years of service, they will award 32 partial tuition scholarships during the current school year. Freshmen students will receive 23 of them.

Total amount of this year's scholarship awards is about \$12,000. Since its founding, the Dads have awarded in excess of \$300,000 in financial aid for OSU students.

The OSU Mothers' Club was organized one year before the Dads'. During the current school year the mothers have provided twelve full tuition scholarships valued at more than \$8,800. Their total contributions are approximately \$200,000.

Norman Kennedy of Eugene is the new president of the Dads' Club (succeeding Roy Malo of Portland), and Don Blinkinsop of Portland is vice-president. The Mothers' Club is headed by Mrs. Janet Harper of Eugene, president; Mrs. Jo Zimmerman of Tigard, first vice-president; Mrs. Linda Gilleese of Hermiston, second vice-president. Membership in both organizations is open to anyone interested in the welfare of students at Oregon State University.

within the next few months. Fifty acres of cleared land are now being planted with Douglas Fir seedlings donated by the Weyerhaeuser Timber Company.

Teaching units designed for construction bosses

The Construction Education and Research Foundation (CERF), which is affiliated with the Oregon State University Foundation, has now completed two of ten units designed to prepare construction personnel for the tasks and problems of superintending large construction projects.

The first unit, "Leadership and Motivation," has been in use for a year, and has proved highly beneficial in maintaining good morale on the job and in increasing workers' cooperation and productivity.

Unit 6, "Cost Awareness and Production Control," was recently completed, and classes for teaching instructors for the course have been held in several areas of the nation. The in-

structors, in turn, will present the course to construction superintendents and supervisory personnel who aspire to be superintendents.

Other units to be developed are Oral and Written Communications, Construction Problem Solving and Decision Making, Interpretation of Drawings and Documents, Construction Planning and Scheduling, Construction Safety, Construction Employee and Labor Relations, Construction Productivity Improvement, and Construction Project Organization and Control.

In addition, a comprehensive course of instruction is also available for construction foremen. Preparation of these courses is a joint venture of the Associated General Contractors and CERF.

News of classmates and friends

'20 - '29

Mr. and Mrs. Ken McGrath, '27, celebrated their 50th wedding anniversary Dec. 28 in LaJolla, Calif., at the home of Mrs. McGrath's sister. They were formerly in the drug business in Woodburn and are now living in Senior Estates there.

Duane C. Lawrence, '27, of Portland is still actively working at his firm, Portland Laundry and Dry Cleaners, and has been secretary of the Oregon State Laundry Owners Assoc. since 1930.

Mr. and Mrs. Warren Neil Heiny, '29 (Eva Schneider, '30) have been retired since 1964 and are now living in Tucson, Ariz.

'30 - '39

Pearl Horning (Mrs. Don) Bauder, '30, has moved from Wilmington, Del. to a nearby retirement village in Hockessin, Del.

Tracy W. Applegate, '32, lives in Seattle and retired in 1974 as a senior specialist engineer for the Boeing Co.

Mr. and Mrs. Gordon T. Alexander, '33 (Marjorie Murchie, '33), who are retired and living on Bainbridge Island, Wash., recently celebrated their 45th wedding anniversary.

H. Milton Nolte, '34, retired as special agent of the Continental Insurance Co. in 1974. He and his wife (Alicia Hunt, '33) are now operating a Christmas tree farm in Sherwood.

Dr. Miles E. Drake, '34, is president of the New Jersey chapter of the American Academy of Pediatrics.

Lloyd F. Millhollen, Jr., '34, has retired as superintendent of the Lake Oswego Public Schools and is now living in Eugene.

Kenneth O. Valberg, '36, sold Valberg Timber Corp. in 1968 but continued operating his lumber yard and hardware store until 1976. He and his wife are living in Boring and operating a small real estate office.

Glydas Henderson Cameron, '38, conducts a successful sewing business in Canada and has Cameron Enterprises, Inc., in Portland, for interior design. She wrote the first book on knit and stretch sewing.

Bernard L. Orell, '39, vice president for public affairs for Weyerhaeuser Co. in Tacoma, has been elected president of the Society of American Foresters.

Dorothy Walker Parker, '39, lives in The Dalles and is retired as a high school teacher and former Operation Head Start teacher.

Hayes of CH2M steps down

Thomas Burke Hayes, '38, a founding partner of CH2M Hill, retired in January as vice president and director of industrial and energy systems for the firm of engineers, planners, economists and scientists which has its principal regional office in Corvallis.

Hayes will continue to be associated with the firm as a senior consultant. He will coordinate business development activities and feasibility studies for hydroelectric projects, and will have a continuing role in the firm's activities with the

development of hydrogen as an alternative to fossil fuels.

In 1946, Hayes joined with two classmates, Holly A. Cornell, '38, and James C. Howland, '38, and their former professor, the late Fred Merryfield, '23, to form the consulting engineering firm of CH2M.

In February, Hayes was awarded the President's Citation by the Consulting Engineers Council of Oregon. The honor is for outstanding service to the engineering profession and to the state.

Mrs. Hayes is the former Billie Reynolds, '38.

Harold H. Persey, '40, treasurer of Hayden Island, Inc. in Vancouver, Wash., and a registered CPA, was honored Dec. 28 at a retirement dinner in Portland.

James E. Rogers, '40, of Chiloquin has retired as Chiloquin Ranger District timber sale administrator for the U.S. Forest Service.

James G. Kirwan, '40, is president of Lapstar, Inc. in Beaverton.

Cecil Langdon, '42, who as game supervisor had been responsible for all wildlife activities in the Malheur District for the Oregon Game Commission for 30 years, retired Jan. 1. Following four years with the SeaBees in the South Pacific, Langdon began his long career in wildlife management in a beaver trapping program in Philomath. He was promoted to the position of wildlife biologist in Ontario in 1948.

Dr. Feung B. Lee, '42, a prominent surgeon in Needham, Mass., was recently honored by 350 friends and relatives at an appreciation dinner.

Barbara Clark Davidson, '43, lives in The Dalles where her husband has a wheat and cattle ranch.

Alum honored for 58 years of service to SAE

By Virginia Rankin
Of The Gazette-Times

"Schu of '22" has spent more than half a century working with young people, both avocationally and vocationally.

Benjamin F. Schumacher, 79, of Corvallis, is a 1922 graduate of Oregon State University, where he joined the Oregon Alpha chapter of Sigma Alpha Epsilon.

Through the years since 1922, "Schu" -- as he is known to friends -- never has been far from his fraternity home or out of touch with his fraternity brothers.

From his graduation until 1977, Schumacher served as the financial advisor of the SAE chapter at Oregon State and secretary-treasurer of its building association. He resigned his position last June, fittingly enough, just after the final mortgage payment was made on the current chapter house at 2727 N.W. Harrison Blvd.

Moreover, Schumacher notes, the 20-year first mortgage of \$110,000 on the house was paid off three years in advance.

That achievement illustrates the aptness of an assessment of himself Schumacher offered: "I always have been orderly and devote myself to each task until all loose ends are woven neatly into place."

A native of Portland, Schumacher came to Corvallis to attend OSU in the fall of 1918. After his graduation, he returned to Portland for two years and worked for the Ryan Fruit Co.

In 1924 he returned to Corvallis and became assistant manager of the Cooperative Managers Association, 151 N.W. Monroe Ave., which supplies food and household equipment at wholesale prices to OSU fraternities, sororities and cooperative living houses. The association is directed by a board made up of student representatives from each of the member living organizations.

Schumacher remained with the association until 1943, when he left Corvallis for three years in the Army. From 1946 until 1954 he was a life insurance agent in Corvallis. Then he returned to the cooperative. He was its manager when he retired in 1964.

+++

Schumacher believes that fraternities and sororities are stronger than ever on campuses throughout the nation. He recalls that during the late 1960s and early 1970s there was a rebellion among young people against pledging their loyalty to organizations that choose their members on the basis of social considerations and then enforce rules of conduct upon the members. But this movement has reversed itself in the past few years, he said.

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Schumacher paid \$30 a month for his board and room in the chapter house. Today's fraternity brothers pay \$130 a month.

"I remember during the depression years (1929-1936) that we had trouble keeping our chapter house full. There were frat brothers whose fathers were out of work. And, worst of all, there was a lady across Harrison Boulevard from our house and she was offering board and room for \$21.50 a month," he said.

Until recently, the past year had been a grim one for Schumacher.

His wife of 55 years, Gayle, underwent surgery for cancer and then became afflicted with arteriosclerosis. Since October she has been at Heart of the Valley Care Center. But she gets to go home every other Sunday.



Schumacher's interests include gardening, indoors and out. Here he checks a plant, one of 400 geraniums and fuchsias growing in the hothouse at his Corvallis home. (Gazette-Times photo by Tom Warren)

Then one of Schumacher's daughters, Marolyn Welch of Corvallis, was in a car accident and was near death for months before recovering from her injuries.

But on March 9, Schumacher found himself appearing before 250 relatives and friends who had gathered to honor him at a special dinner on the OSU campus.

Lewis E. Smith of Indianola, Iowa, president of the national SAE organization, was present to give Schumacher the fraternity's Distinguished Service Award for "58 years of service to the Oregon Alpha chapter."

The accompanying citation talked about Schumacher, saying such things as "... touched so many lives. ... your exemplary deeds. ... noted for high morals, kindnesses and sincere regard for fellow men. ..."

It was announced that an annual Ben Schumacher Award for achievement had been established. The recipient will be a student member of the OSU chapter house.

And then, Schumacher was presented a solid gold medallion denoting his service to SAE.

"Now I have to ask my maker each night to keep me from becoming 'stoltz'," Schumacher said, explaining that "stoltz" is a German word meaning arrogant or prideful.

He recalled one statement he made to the audience at the dinner:

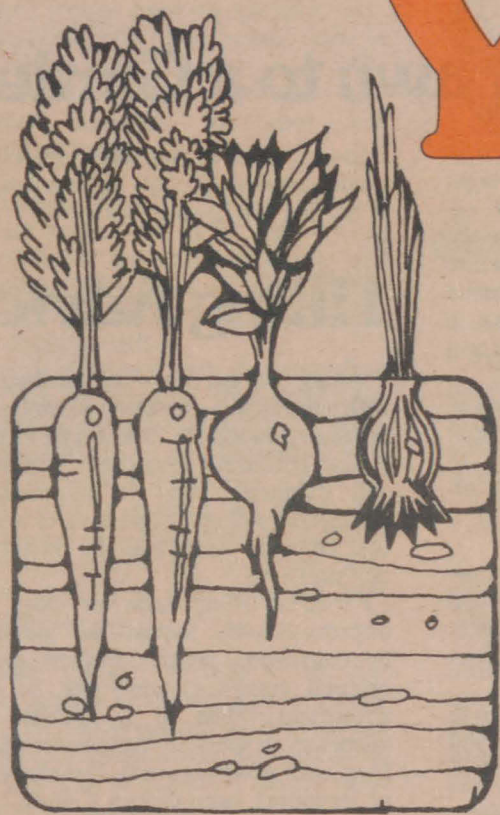
"When someone finishes a long span of years, such as I have had as financial advisor for Oregon Alpha of Sigma Alpha Epsilon and treasurer of the building association, I don't believe a person starts out with any intention of such service. I know very well that I did not. To be frank, it sort of grows and becomes a part of your life."

Now, Schumacher is busy answering a horde of letters he has received from friends. And he is busy getting his vegetable garden plowed and planted, spraying his fruit trees and tending to his hothouse, which contains more than 400 geraniums and fuchsias.

He also has to make room in his den of his home at 4315 N.E. Westlinn Ave. for his latest plaques, medals and citations.

Growing

Your Own



A Practical Guide to Gardening in Oregon

Oregon State University

EXTENSION SERVICE

Vegetable Varieties
Planting Dates
Soil Preparation
Insect Control
And More...

Getting

Started

Converting Lawn to a Garden

Front yard gardens in the place of lawns are a much more common sight in the last few years. For the environmentally minded, converting the lawn to a garden puts more ground into productive use. For others, it can make the difference between growing a garden or going without if sunlight and soil prevent backyard cultivation.

When converting a lawn to a garden, it is best not to mix the sod into the soil. Clumps of turf cause difficulty in establishing a good seed bed. In addition, they may take root and be a weed problem all summer.

Renting a sod stripper that will make grass removal easy and minimize soil losses is advisable. A sharpened shovel will cut the sod also, but it is a great deal of work if the area is large.

Whichever method is used, be sure to skim the sod just below the crown and do not remove an excessive amount of soil.

The stripped sod is a good source of compost that can be added to the garden later. Stack it soil side up and sprinkle ammonium sulfate between the layers. Cover the whole pile with black plastic to kill the sod and generate more heat.

Once the lawn has been removed, gardeners should follow the usual steps in garden soil preparation.

Tilling Advice

Tilling the garden -- by spading or with a rototiller -- performs a number of necessary functions. It is a way to mix in the manures, fertilizers, compost, and clippings. And it temporarily loosens the soil and helps control weeds that compete with crops for moisture and nutrients.

Frequent tilling, however, does not improve the soil. Instead, soil loosened by cultivation usually returns to its original condition after one or two irrigations. Thus, it is usually unnecessary to spade or turn the soil more than once a season, even though rains or irrigation have beaten it down.

Garden soil should be tilled only when some useful purpose is being accomplished, such as turning under organic matter, controlling weeds, breaking a crust for water penetration, or loosening a small amount of soil for planting seed.

Garden clinics

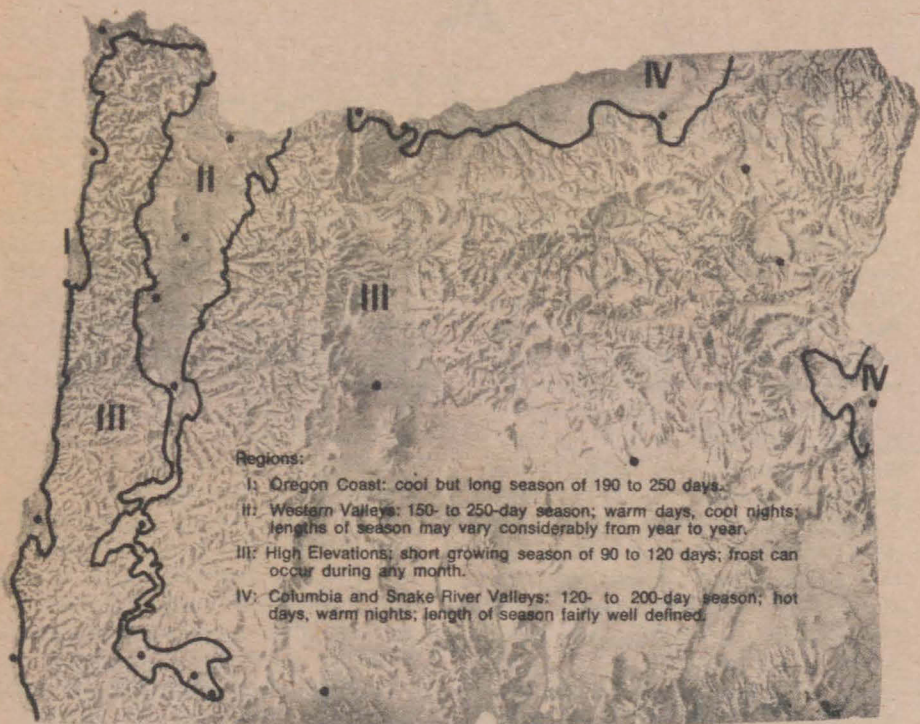
The OSU Extension Master Gardener Program is another source of gardening and landscape advice for many Oregonians. Master Gardener clinics, staffed by experienced volunteer gardeners who have received intensive training by OSU Extension specialists and agents, are held in many Oregon cities.

In the northern Willamette Valley, Master Gardener clinics will be held in Washington, Multnomah and Clackamas Counties. Some of the cities hosting clinics are Beaverton, Gresham, Oregon City and Portland.

In the mid-Willamette Valley, numerous clinics are scheduled in Yamhill, Polk and Marion Counties. Some of the cities offering clinics are Salem, McMinnville, Newberg, Dallas, Stayton, Woodburn and Monmouth.

In the southern Willamette Valley, Master Gardener clinics will be available in Lane and Benton Counties. Cities include Eugene, Springfield, Corvallis and Oakridge.

A more complete listing of Master Gardener clinic locations and times can be obtained from the county Extension offices in those counties mentioned.



Oregon is divided into four growing regions. Identifying your region will help you choose vegetable varieties and

planting dates suitable to the growing conditions in your area as shown on the Oregon planting date chart.

Choosing Proper Site Key Garden Decision

Choosing a garden site is one of the most important decisions the gardener must make. The ideal location would be level and well-drained, the soil loose, dark-colored and fertile.

Few gardeners are lucky enough to have the perfect spot, but the following suggestions can serve as a guide.

-- Avoid placing the garden in a low spot, at the base of a hill, or at the foot of a slope bordered by a solid fence. Such areas are slow to warm up in the spring and frost settles in these places because of lack of air drainage.

-- A gradually sloping hillside with a southern exposure is a better location than a low, level area where there is no air drainage. A southern exposure receives the maximum amount of sunlight through the growing season. Mid-summer vegetables, other than leafy crops such as lettuce, should not be located on the north side of a building, or on a northern slope of a hillside.

-- The garden spot should get at least 6 hours of direct sunlight each day (8-10 hours is ideal). Thus, vegetables should be planted away from buildings, trees, and other objects which would shade the garden area. If part of the garden must be in the shade, grow lettuce in the shaded area.

-- Examine the potential garden site to see how it drains. Avoid areas that remain soggy after a rain. Loamy or sandy loam soil is preferable to a heavy clay soil. Minor drainage problems often can be solved by adding organic matter to the soil.

-- Locate the garden away from trees and shrubs. Their roots will rob vegetables of nutrients and water.

Look for a site which supports lush vegetative growth, even if it is in the form of dark green, sturdy weeds. If weeds won't grow in an area, vegetables probably won't grow there either.

-- A nearby water supply that is easy to use is also important. Watering is necessary at planting time and for

irrigation during the summer. If irrigating is complicated and time-consuming, the desire to keep the garden going may vanish.

-- Finally, the closer the vegetable garden is to your back door, the more it will be used. It will be easier to take care of the garden, and crops can be harvested at their prime.

Soil pH: Acid or Alkaline

Soil pH, a measure of soil acidity, is important in maintaining a supply of calcium and minor elements. A soil pH of 7.0 is neutral, while a pH above 7.1 is alkaline or sweet.

Most vegetables grow best on a slightly acid soil with a pH between 6.0 to 6.8. Minor elements, such as manganese and boron, are not likely to be a problem if the pH is within this range.

Inexpensive kits to test pH levels are available at garden supply outlets. Since the kit may be used infrequently, a group of friends or neighbors might want to buy one together.

An accurate pH level and lime application rate is part of the OSU soil test. The following suggestions can be used as guidelines:

-- If the pH is between 5.5 to 6.0, add 30 to 50 pounds of limestone or dolomitic lime per 1000 square feet. For heavy soils use the higher rate.

-- If the pH is between 5.0 to 5.5, make two applications of the above rates, one before plowing and the other before planting.

Lime is not needed each year and the full neutralizing effect requires at least a full season.

Sulfur may be used to lower soil pH. To reduce the pH from 7.5 to 6.5 will require about 20 pounds of dusting or wettable sulfur per 1000 square feet.



Preparing Garden Soil

The ideal garden soil is seldom available.

But vegetables will grow satisfactorily on soil types ranging from sand to clay if certain steps are followed to correct their basic shortcomings.

Sandy soils. To increase the nutrient and water-retaining capacity of sandy soils, organic matter must be added. For a total soil depth of 8 inches, add 2-3 inches of leaf mold, manure, sawdust, or bark and rototill thoroughly.

With the exception of manure, these organic materials require the addition of nitrogen to balance the high concentration of carbon material. About ten pounds of ammonium sulfate should be added for each 1,000 square feet per inch of organic matter.

And if the manure has been leached by rain or is high in straw or shavings used as bedding, it too might need about half of the additional nitrogen.

Adding organic matter is not a one time thing, but should be carried out yearly for sandy soils.

Sandy soil will usually require smaller and more frequent applications of fertilizers and water than other soil types. Also, a small lime application will correct acid soils, but will not last as long.

A general guide would be 75-100 pounds of lime per 1,000 square feet every three years.

Heavier soils. The clay soils many gardeners complain about are more likely to be silty clay loams. They take longer to dry out in the spring and should not be worked until a small amount crumbles easily when pressed with your fingers.

These soils also can use added organic matter, but not in the amounts needed by sandy or clay soils. A fall cover crop and manure will help maintain tilth. A guide for lime applications would be about 100-125 pounds per 1,000 square feet every three or four years.

Clay Soil. These soils hold moisture well (often too well) and usually contain more nutrients than lighter soils. Adding organic materials is recommended.

A 2-4 inch layer of coarse material such as sawdust, bark or straw will help separate fine clay particles and allow better moisture movement and soil warming in the spring. Yearly applications or organic matter are necessary.

Ten pounds of ammonium sulfate per 1,000 square feet for each inch of added organic matter will help correct nitrogen deficiencies and hasten decomposition.

Although it is more expensive and difficult to apply, a 2 inch layer of sand in addition to the organic matter will help. However, adding sand without the organic material may harden the soil into a low grade concrete.

Do not spade or rototill clay soils until they crumble when squeezed in the hand and do not feel sticky. If worked when too wet, hard clods will form and a seedbed will be almost impossible to develop.

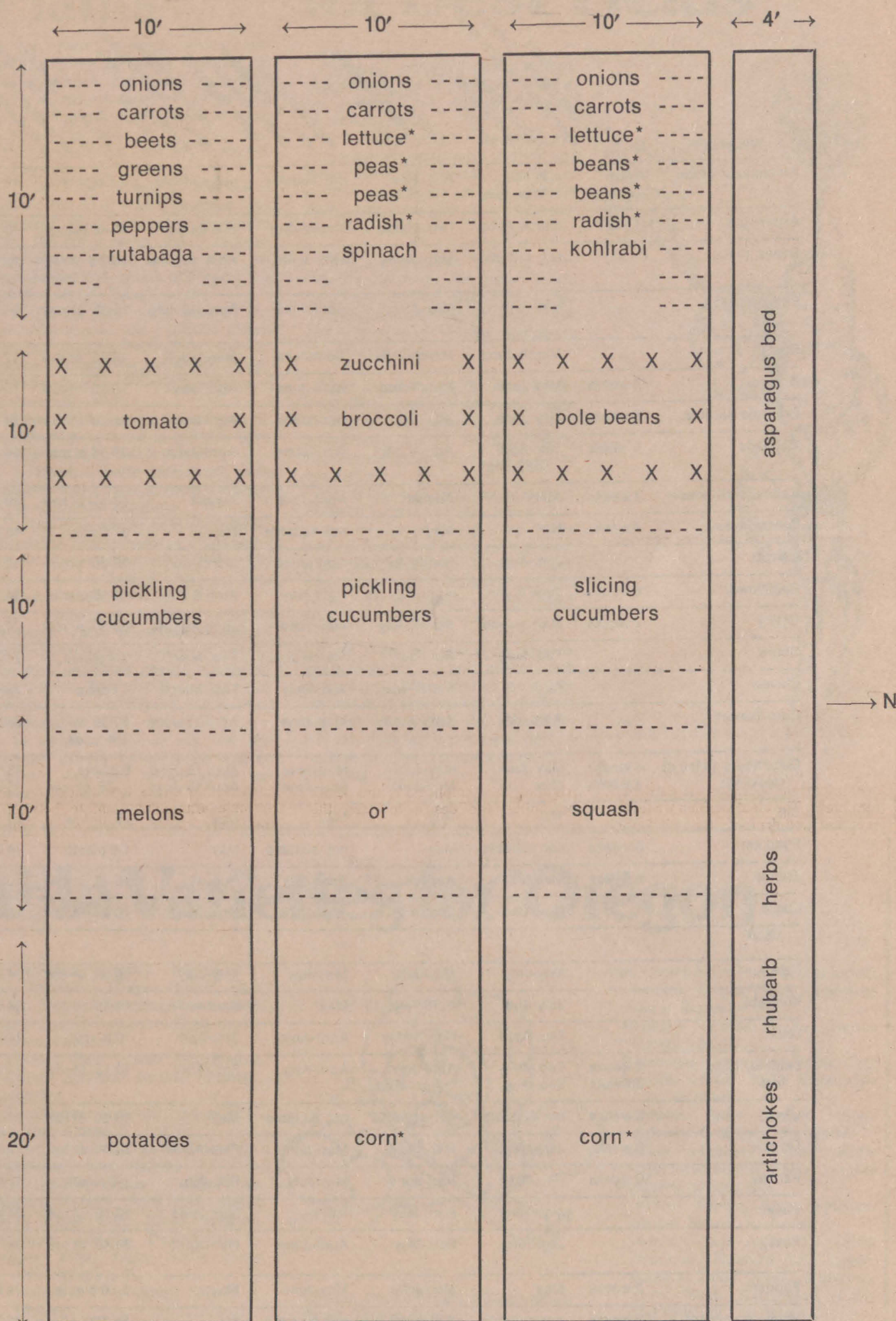
Lime requirements in clay soils vary widely, but 125-150 pounds per 1,000 square feet every 3-4 years is a general guide.

Once the soil has been prepared, it should be thoroughly mixed by spading or rototilling to a depth of 6-8 inches. A second operation may be needed to pulverize clods and compact the soil for a firm seedbed. This seedbed need not be "fine as flour," but will crust less if somewhat granular.

The final soil surface should be as level as possible for uniform water penetration and to prevent low spots where water may collect in puddles.

Just before planting the seeds, rework the soil with a rake or hoe. This will help prevent weeds from growing faster than the vegetables.

Plan Before You Plow



This garden plan features 12 inch wide walkways of scrap wood or sawdust, short rows for ease of hoeing from ends, perennial vegetables planted on the long sides for the least interference with garden soil preparation, and

many short rows to allow successive plantings for season-long harvesting.

* These vegetables are particularly suitable for successive plantings.

Soil Testing

A soil test can be used as a guide to the fertility level of the garden plot. The standard soil test is a laboratory chemical analysis of soil that determines the supply of available nutrients such as phosphorus, potassium, magnesium and calcium.

It also measures the soil acidity or alkalinity (pH) and the percent of organic matter. A soil test does not

indicate if insects or diseases are present.

The results of a soil test can be used to make recommendations for fertilizer needs and lime requirements. Soil tests prevent the application of unneeded fertilizer and ensure proper nutrient levels for a productive, high quality yield.

A yearly soil test is not required or recommended. Gardeners probably have a good idea of the fertility needs of

plots they have successfully gardened before.

On the other hand, testing soil that is being gardened for the first time should be considered. And a soil test may be needed if there are problems in the garden that are suspected to be related to soil fertility.

The cost of a soil test varies with the number of elements to be tested. Detailed information is available at county Extension offices.

Oregon Planting Dates for Garden Vegetables

Vegetable		Start plants indoors this long before planting date shown for your area.	Oregon coast Astoria-Brookings Region I	Western valleys Portland-Roseburg ¹ Region II	High elevations, mnts. & plateaus of central & eastern Oregon Region III	Columbia and Snake River Valleys Hermiston- Pendleton; Ontario Region IV	Amount to plant for family of four (allows moderate amount for processing)	Distance between rows (use narrower spacings for small garden)	Distance apart in the row
Artichokes (globe)	Crown pieces	Aug.-Oct. May-June	Aug.-Nov. April-June	not suitable	not suitable	3-4 plants	48-60 inches	48-60 inches	
Asparagus	1 year	March-April	Feb.-March	March-April	Feb.-March	30-40 plants	60 inches	12 inches	
Beans (lima)	.....	not suitable	May-June	May-June	April 15-June	15-25' of row	12-24 inches	4-6" bush 12-24" pole	
Beans (snap)	.....	May-July	May-July	April-June	April 15-July	15-25' of row	6-24 inches	2-6" bush 12-24" pole	
Beets	.....	March-June	March-June	April-June	March-July	10-15' of row	12 inches	1-2 inches	
Broccoli	6 weeks	May-June	March-Aug.	April-June	April-July	15-20' of row	12-24 inches	12-24 inches	
Brussels sprouts	6 weeks	May-June	May-July	April-June	April-July	15-20' of row	24 inches	24 inches	
Cabbage	6 weeks	Jan.-April July-Sept.	April-June	April-June	April-July	10-15 plants	24 inches	24 inches	
Cabbage (Chinese)	4 weeks	July-Aug.	August	April-June	August	10-15' of row	30 inches	6 inches	
Cantaloupes	4 weeks	May	May	not suitable	May	5-10 hills	48 inches	48 inches	
Carrots	.....	Jan.-Aug.	March-July 15	April-June	March-July	20-30' of row	12 inches	2 inches	
Cauliflower	6 weeks	June & Jan.	April-July 15	April-May	April & July	10-15 plants	24 inches	24 inches	
Celery	9 weeks	March-June	March-July	May-June	June-August	20-30' of row	24 inches	5 inches	
Chard	.....	Feb.-May	April-July	March-June	Feb.-May	3-4 plants	24 inches	12 inches	
Chives	.....	April	March-May	April-July	Feb.-March	1 clump	Needs 4 sq. ft.	Scatter	
Corn (sweet)	.....	April-May	April-June	May-June	April 15-June	20-30' in 4 rows	36 inches	15 inches	
Cucumbers (slicing) (pickling)	4 weeks 4 weeks	May-June May	May-June May-June	May-June May-June	April 15-June April 15-June	6 plants 25' of row	48 inches 48 inches	24 inches 6-12 inches	
Dill	.....	May	May	May	May	25' of row	24 inches	6-9 inches	
Eggplant	8 weeks	not suitable	May	not suitable	May	4-6 plants	24 inches	24 inches	
Endive	6 weeks	March-July	April-Aug. 15	April-July	August	10-15' of row	12 inches	10 inches	
Garlic	.....	Nov.-Dec.	Sept.-Feb.	Aug.-Sept.	Nov.-Feb.	10-20' of row	18 inches	3 inches	
Kale	.....	May-July	May-July	May-July	May-July	20-30' of row	24 inches	24 inches	
Kohlrabi	.....	July-Aug.	April-Aug. 15	May	April to Aug.	10-15'	24 inches	3 inches	
Leek	.....	Feb.-April	March-May	April-June	Jan.-April	10 ft. row	24 inches	2 inches	
Lettuce, head leaf	5 weeks 5 weeks	Feb.-July Feb.-Aug.	April-July April-Aug.	April-Aug.	Feb.-April	10-15' of row	12 inches	12 inches 6 inches	
Okra	8 weeks	not suitable	not suitable	not suitable	May	10-20' of row	24 inches	18 inches	
Onions	10 weeks	Jan.-March	Mar.-May	May-June	Feb.-April	30-40' of row	12 inches	3 inches	
Parsley	10 weeks	Dec.-May	Mar.-June	May-July	Feb.-May	1-2 plants	12 inches	8 inches	
Parsnips	.....	May-June	April-May	May	Mar.-June	10-15' of row	24 inches	3 inches	
Peas	.....	Jan.-Aug.	Feb.-May	April-June	Mar.-April	30-40' of row	36" bush 48" vine	2 inches	
Peppers	9 weeks	May	May-June	May-June	May	5-10 plants	24 inches	12-18 inches	
Potatoes (sweet)	6 weeks	not suitable	not suitable	not suitable	May	50-100' of row	48 inches	12 inches	
Potatoes (white)	.....	Feb.-May	April-June	May-June	Mar.-June	50-100' of row	30 inches	12 inches	
Pumpkins	4 weeks	May	May	June	April 15-June	1-3 plants	72 inches	48 inches	
Radish	.....	All year	March-Sept.	April-July	Mar.-Sept.	4 ft. row	12 inches	1 inch	
Rhubarb	Crown piece	Dec.-Jan.	March-April	April	Feb.-March	2-3 plants	48 inches	36 inches	
Rutabagas	.....	July	June or July	April-May	Mar.-July	10-15' of row	24 inches	3 inches	
Spinach	.....	Aug.-Feb.	April & Sept.	April & July	Sept.-Jan.	10-20' of row	12 inches	3 inches	
Squash (summer)	.....	May	May-June	May-June	April 15-June	2-4 plants	48 inches	24 inches	
Squash (winter)	.....	May	May	May	April 15-May	2-4 plants	72 inches	48 inches	
Tomatoes	7 weeks	May-June	May	May	May	10-15 plants	36-48", closer if supported	24-36 inches	
Turnips	.....	Jan. & Aug.	Apr.-Sept.	April-May	Feb. & Aug.	10-15' of row	24 inches	2 inches	
Watermelons	4 weeks	not suitable	May	not suitable	May	6 plants	72 inches	60 inches	

¹Medford area planting dates may be 7-10 days earlier and extend 7-10 days later than dates indicated for western valleys.

Watering Varies With Soil, Plants

Deciding how often to irrigate the garden and how much water to apply each time is not simple.

Irrigation requirements vary with different soil types and the rooting depth of various garden plants. Sandy soils will hold just under one inch of water per foot of soil, loams about 1-1/2 inches, and clay soils about 2-1/2 inches.

Corn, tomatoes and small shrubs draw water from the top one or two feet of soil. They need to be watered less frequently than lawn grasses and leafy vegetables which draw water from just the top one foot.

In addition, the amount of water used daily by plants will depend on temperature and wind velocity.

Plant symptoms can be used as a guide to irrigation. When short of water, many plants show a dark bluish-green color, or wilting, or both. These symptoms appear first during the hottest part of the day. When either one is visible, it is time to irrigate.

Another method is to use a shovel or a soil tube to check the soil-water content at the 6-inch depth.

Each irrigation should provide only enough water to replenish what the plants have used. It is best to give a thorough soaking and then not irrigate again until necessary. At least one inch of water about every 5-7 days is recommended.

Avoid frequent watering with small amounts of water. This results in excessive evaporation without deep wetting in the root zone. It also may encourage root rot and other diseases.

Hand sprinkling can also be a waste of time because quite often sufficient amounts of water are not applied.

For most efficient water use, irrigating in the early morning is recommended. Less wind and lower temperatures mean more of the water gets to the root zone instead of being lost to evaporation.

Other practices that will conserve water are:

1. Don't use mounds or hills (i.e. a raised soil level with a rounded top) because water penetration is almost nil. Flat soil is better, and a basin or depression around plants such as cucumbers and squash will catch the water and give better results.

2. In the cool, early part of the growing season, use a plastic mulch around tomatoes, cucumbers, melons, peppers and other warm season plants. Plastic will warm the soil in addition to conserving water.

Later in the season use an organic mulch such as straw or grass to save water and keep weeds down.

3. Practice better-than-usual weed control. Weeds steal valuable moisture that vegetables could use.

4. Use cans with holes in the bottom, buried to ground level, as a reservoir. Water is more efficiently applied to the root zone of individual plants such as tomatoes and squash.

5. Investigate trickle irrigation systems. These along-the-row plastic ooze-type systems can save half to two-thirds of the water usually applied to the garden. They put the water right along the row and allow a minimum of evaporation.

In addition, they do not wet the foliage, thereby lessening the risk of disease. And they do not water the weeds between the rows.

Follow Directions for Best Yields

Planting a vegetable garden is not a complicated and mysterious process, but success does involve following directions closely.

Most vegetable seed packets have planting directions printed on them and these should be followed closely. In addition, gardeners should observe three basic principles to increase the chance of success.

Plant vegetables at the right time. Planting seeds at the time recommended on the seed packet or in OSU Extension publications will reduce the risk of frost or hot weather damage to the young plants.

Plant vegetables at the right depth. Vegetables planted too deep take longer to come up, if they come up at all. There is also the chance that weeds may grow first around the area and crowd out the vegetables.

Vegetables with small seeds, such as cabbage, carrots, radishes, and lettuce, should be planted 1/2 inch deep. Those with medium-sized seeds, such as beets and chard, should be planted 3/4 inch deep. Large-seeded vegetables, such as beans, corn and squash, can be planted from 1 to 1-1/2 inches deep.

Plant vegetables the right distance apart. Correct spacing allows each plant to get its share of sunshine, water and nutrients from the soil. If seedlings are planted too close, the vegetables will not grow as big. Excess tops on radishes or other root crops result from crowding.



Vegetable Varieties for Oregon

Choosing among the many vegetable varieties available for the home garden can be a difficult task. You want to be sure the specific variety you plant has a good chance of success under local growing conditions.

The following list gives varieties that have shown promise in Oregon. They are recommended for all areas of the state except for specific regions where indicated.

These varieties should be available at garden stores, or they can be ordered from seed catalogs.

Artichoke (not regions III, IV): Green Globe -- best to grow from crown division rather than seed.

Asparagus: Mary Washington, California 500.

Beans (green bush): Tendercrop, Bush Blue Lake 274.

(green pole): Blue Lake, Kentucky Wonder, Romano.

(wax bush): Earliwax, Goldenrod.

(wax pole): Golden Wax.

(lima bush, large seeded): Fordhook 424.

(lima bush, small seeded): Early Thorogreen, Thaxter.

(lima pole): King of the Garden.

(dry): Seaway, Pinto, Red Kidney.

Beets: Detroit Dark Red, Ruby Queen, Burpee Golden.

Broccoli: Waltham 29, Gem, Green Duke, Green Comet.

Brussel sprouts: Jade Cross, Green Gem.

Cabbage (Chinese): Michihli, Wong Bok, Burpee Hybrid, Early Hybrid G.

(overwintered): Green Winter, Danish Ballhead, Rio Verde.

(spring planting): Golden Acre, Stonehead, Market Prize, Red Head, Market Topper.

Cantaloupe (not regions I, II): Ambrosia, Harper Hybrid, Gold Star, Burpee Hybrid, Supermarket, Early Hybrid Crenshaw, Early Sweet, Classic, Roadside.

Carrots: Red Cored Chantenay, Nantes, Spartan Sweet, Pioneer, Grenadier.

Cauliflower: Snowball (strains X, Y, M), Snow Crown.

Celery: Utah 15B, 52-70, Greenlight.

Collards: Vates, Georgia.

Corn, sweet (yellow): Golden Cross Bantam, Jubilee, Style Pak, Spring Gold, Rapid Pak, Early Sunglow, Sundance, Gold Cup, Tendertreat.

(white): Tokay Sugar, Silver Queen (not regions I, II).

Cucumbers (pickling): SMR 58, Pioneer.

(slicing): Burpee Hybrid, Marketmore, Cherokee, Poinset, Burpless Hybrid.

Eggplant (not regions I, III): Black Jack, Black Magic, Morden Midget (small but early).

Endive: Green Curled, Batavian, Deep Heart.

Kale: Dwarf Blue Curled Scotch, Dwarf Green Curled Scotch.

Kohlrabi: White Vienna, Purple Vienna.

Lettuce (heading): Pennlake (not regions III, IV), Ithaca, Calmar, Calmaria.

(red leaf): Prizehead.

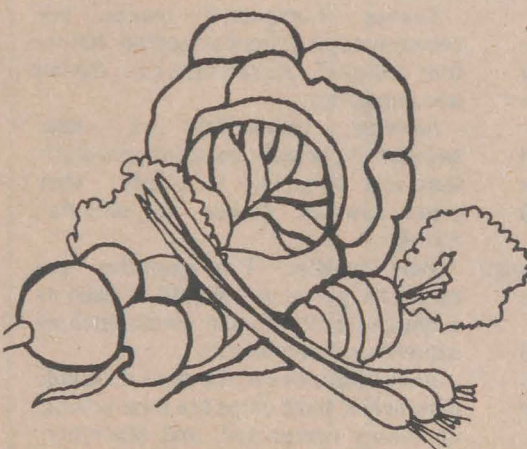
(green leaf): Salad Bowl.

(romaine): Parris Island, Dark Green, Valmaine.

(bib type): Buttercrunch, Green Ice.

Mustard Greens: Fordhook Fancy, Green Wave (long standing).

Onions (yellow): Yellow Globe Danvers, Spartan Sleeper, Spartan Banner (for storing), Fiesta, El



Capitan, Brown Beauty, Autumn Spice, Sweet Spanish Strains.

(red): Southport Red Globe.

(white): White Sweet Spanish, Southport White Globe.

Parsley: Triple Moss Curled.

Parsnips: Model, All America.

Peas: Aspen, Aurora, Corvallis, Dark Green Perfection, Green Arrow, Laxton Progress, Little Marvel.

(edible pod): Oregon Sugar Pod.

Pepper (sweet): Early Calwonder 300, Park Wonder, Yolo Wonder L, Belaire.

Potato (red): Red Pontiac, Norland, Red La Soda.

(white): Norgold Russet, Russet Burbank (Netted Gem).

Pumpkin (vining): Small Sugar, Connecticut Field, Dickinson, Jack O'Lantern, Triple Treat.

(compact vines): Jackpot, Cinderella.

(novelty): Big Max.

(for seed only): Lady Godiva.

Radish (red): Comet, French Break-

fast, Cherry Belle, Red Boy, Champion.

(white): Burpee White, All Seasons (large Japanese type).

Rhubarb: Crimson Wine, Crimson Cherry, Cherry.

Rutabagas: American Purple Top.

Spinach (savoy leaf): Bloomsdale Long Standing.

(smooth leaf): Bouquet, Duet, Hybrid 424, Melody, Northland.

Squash (summer) (yellow): Early Prolific, Straightneck, Early Summer Crookneck, Golden Girl.

(green): Seneca, Elite, Diplomat, Burpee Hybrid, Scallopini.

(winter) (not region I): Golden Delicious, Hubbard (all types), Banana, Table Queen, Buttercup.

Sweet Meat, Marblehead (Curly Top resistant), Butternut.

Sweet Potato (not regions I, II, III): Earligold, Jewell, Nemagold.

Tomato (early): New Yorker, Pixie, Early Girl.

(medium): Early Pak 7, Springset, Spring Giant, Heinz 1350.

Willamette, Red Pak, Big Early Hybrid.

(late): Ace, Big Boy, Morton Hybrid, Jet Star, Floramerica.

(greenhouse): Michigan-Ohio Hybrid.

(cherry type): Small Fry, Tiny Tim, Patio, Presto.

(yellow): Golden Boy, Jubilee, Orange Queen.

(paste): Chico III, Roma, Royal Chico.

Turnip (root): Purple Top, Tokyo Market.

(greens): Shogoin.

Watermelons (not regions I, III): Klondike No. 11, Crimson Sweet, Charleston Gray, New Hampshire Midget, Sugar Baby, Family Fun, Early Kansas.

Choosing Fertilizer

Commercial fertilizers are a convenient and economical way of supplying nutrients to garden crops.

You can save money on fertilizer by shopping carefully. For instance, powdered fertilizer costs less than granular, pelleted, or liquid fertilizers.

Fertilizers mixed with pesticides or weed killers are costly and not always in proportion to effectiveness. The mix seldom matches the specific soil conditions or controls you need. Moreover, it is more efficient to apply fertilizer separately from pesticide or weed killers.

Package size affects price, too. Fertilizer in large bags costs less per pound than smaller packages. Sharing the cost of large bags of fertilizer with a friend or neighbor can save money. Also, if stored carefully, fertilizer can be used in subsequent years.

Specialty mixes run high, too, and often can be duplicated for less by buying the same proportions of primary nutrients in bulk.

Nitrogen is the most expensive ingredient in common fertilizer, but it too differs in cost. Slowly available forms cost more than quickly-available forms. So again, money can be saved by determining what type of fertilizer actually is needed, a quick pick-up or a gradual, longer lasting feeding.

How do you know which fertilizer to buy? Packages of mixed fertilizer must state the guaranteed content of nitrogen, phosphate and potash -- in

that order. For example, a mixture noted as 5-10-5 contains 5 per cent total nitrogen, 10 percent phosphate, and 5 percent potash. These primary nutrients are similar to nutrients all plants draw from the soil in various proportions.

When applied to the garden, fertilizer is broadcast, banded, or side-dressed. Broadcasting means spreading the fertilizer evenly over the garden with a spreader or by hand.

In banding, fertilizer is applied in narrow trenches 2 inches to the side and 2 inches below the seed row. Sidedressing is like spoon feeding. You spread a soluble nitrogen fertilizer along the row a month to six weeks after planting. Irrigation water takes it into the root zone.

Many types of organic fertilizer are available to gardeners who do not want to use synthetic fertilizers. They fall under two main classifications: manures and commercial organic fertilizers.

Manures. The value of manure as plant food depends on its age, the extent to which it has been diluted or leached by water, and the proportion of bedding, such as straw, sawdust, or shavings, that is mixed in.

Only about 50 percent of the nutrients in manure are available to plants during the first year. And the rate the nutrients are available to plants differs. (Availability refers to the rate of

release of the nutrient from the fertilizer into the soil solution.) Generally, poultry manure is more readily available than the other types.

The table gives some representative values for the nutrient content of different manures. It is easy to translate the nutrient percentages into usable pounds to apply to the garden. For each 100 pounds of these manures, 1 percent equals one pound of the nutrient element.

For example, 100 pounds of steer manure contains one-half to one and one-half pounds of nitrogen. However, roughly half of that nitrogen will not be available to the plant during the first year it is applied.

During the growing season, many vegetables will require 3 to 5 pounds per 1000 square feet of nitrogen, phosphorus and potassium. Minor element deficiencies are not common in Oregon.

Commercial organic fertilizers. These materials seldom contain all three of the primary nutrients, nitrogen, phosphorus and potassium. To obtain a balanced supply of nutrients, more than one source of fertilizer will be necessary.

Good sources of nitrogen include

blood meal, dried blood, dried meat meal, and soybean and cottonseed meal.

Phosphorus can be obtained from rock phosphate and steamed or raw bone meal.

Potassium sources include corn cob ash, greensand, kelp meal and wood ashes.

Whenever possible obtain a readily available fertilizer for the nitrogen supply, such as dried blood or blood meal.

Commercially prepared organic fertilizers may not indicate the nutrient in the brand name. Also, there is a wide variation in value depending on moisture content, type of storage, and other conditions. When buying commercial organic fertilizers, it is best to compare the percentage of nitrogen, phosphorus and potassium in different types and brands.

Specific amounts of fertilizer that will be right to apply in all situations cannot be given. Start with moderate amounts and adjust according to how the plants respond. A recommended starting point: 4-5 pounds nitrogen, 1½-2 pounds phosphorus, 4-5 pounds potassium per 1000 square feet.

Nutrient Content of Various Manures

Material	pct. nitrogen	pct. phosphorus	pct. potassium
Poultry droppings	3.5 to 5	3 to 4	1.5 to 2
Poultry manure (with bedding)	1.5 to 2.5	1 to 1.5	.5 to 1
Steer manure	.5 to 1.5	.2 to .7	1.5 to 2
Rabbit Manure	1.5 to 2.5	1 to 1.5	1 to 1.3
Horse manure	.5 to .7	.2 to .5	.4 to .7

Use Mulches to Advantage in Garden Plot

Mulches reduce soil temperature, decrease surface moisture evaporation and weeds, and slow down the depletion of water in the upper 6-8 inches of soil. Both in the garden and around shrubbery and flowers, mulches can reduce evaporation by as much as 70 per cent.

Mulching materials include plastic film mulches as well as organic mulches.

Clear plastic film mulch should be used carefully. It increases soil temperatures, which may kill plant roots or increase a plant's water needs. Also, weeds can become a problem.

Black plastic film mulch excludes sunlight and causes only a slight increase in soil temperature. Since light does not get through, weeds cannot grow underneath the plastic film.

Make sure the soil is watered before applying plastic mulch, unless there is way to irrigate the plants after the mulch is down.

Organic mulches made up of small particles, such as sawdust, should be applied 1-2 inches deep to avoid compaction, which would prevent air exchange between the soil and the atmosphere.

Coarse or fluffy materials, such as bark chips, can be applied 3-4 inches thick.

Apply organic mulch evenly. Don't pack it around the stem or trunk of the plant. When the mulch is thoroughly wet, pull it back a few inches from the stem or trunk to allow air circulation around the base of the plant.

The following organic mulches are most commonly available to Oregon gardeners and landscapers.

Lawn Clippings. Use clippings as mulch only after they have become dry,

As the Garden Grows

or add less than one inch at a time. Thicker layers mat down, creating odors and slime. Do not use grass clippings if the lawn has been treated with a weed killer.

Leaves. Composted leaves are recommended. Non-composted leaves may compact and produce heat during decomposition.

Sawdust. Unleached red cedar sawdust reportedly contains materials that are poisonous to plants. Other wood sawdust makes an effective mulch.

Pine needles. Pine needles are moderately acid and should be used as a mulch for acid-loving plants such as azaleas and blueberries.

Bark Chips. One of the most desirable of mulches, bark chips are long-lasting, not easily compacted, and attractive.

A combination of black plastic film covered with up to 2 inches of organic material makes an effective mulch.

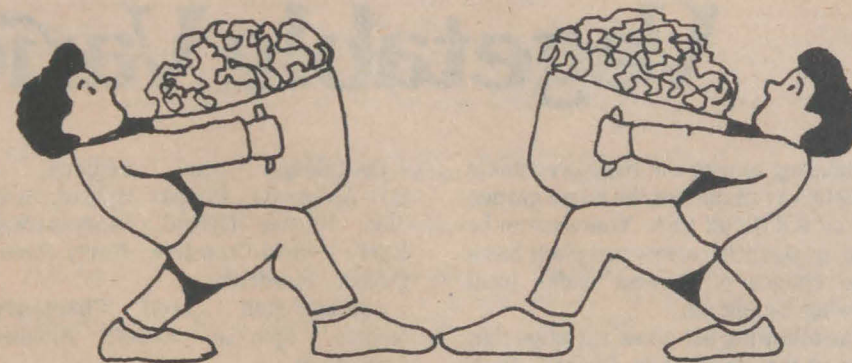
Hoeing Best for Weeds

Put away the sprayer and grab the hoe to attack the weeds in the backyard garden.

Why not control weeds with chemicals? Because the use of herbicides to control weeds on such a small scale is not practical.

The problem is that most home gardens have at least a dozen or so vegetable varieties, few of which tolerate the same weed control spray. Nor is there one all-purpose weed spray for all the weeds that compete with vegetables.

Weeds are best controlled by shallow and frequent cultivation, ideally with a hoe. It may be hard physical work, but it is more economical and efficient than modern herbicides.



Don't let anything go to waste

Recycle With Compost Pile

The compost pile is the home gardener's version of returnable bottles. Instead of throwing away valuable organic materials, they can be recycled and used to good advantage.

Compost is a good fertilizer and soil conditioner when worked into the garden soil. It is also an excellent mulch. Leaves, grass clippings, stems and stalks from harvested vegetables, corn husks, pea hulls, and fine twigs are good materials for composting. However, do not use more than one-third walnut leaves in a compost because they contain a growth inhibiting substance.

Two bins are better than one for making compost. The bins should be 4 to 6 feet high, 3 to 5 feet wide, and any convenient length.

Fill one with alternate layers of organic material 6 to 12 inches thick and garden soil about one inch thick. Add about a cup of high nitrogen fertilizer, such as ammonium sulfate, for each cubic foot of compost material.

Lime is needed on some soils and can be added to the compost at 2 3 cup per

cubic foot. However, if the compost might be used around some ornamentals which do not tolerate lime, it may be best to withhold lime until using the compost.

Animal manure may be used in the compost. It will reduce the amount of fertilizer that should be added.

Moisten the organic material thoroughly and repeat the layering process until the bin is full. Pack the material tightly around the edges, but only lightly in the center. That way the center will settle more than the edges and the water will not run off.

Although water should be added to the compost pile in the summer, in winter a plastic cover will prevent loss of nutrients caused by rainfall leaching them away.

Shredding or otherwise making small particles speeds up the composting process. Autumn leaves may not compost much during the winter, but can be turned about May 1.

Fork the material from one bin to another with the drier outside portion placed in the center. Turn again in about 3 to 5 weeks for the final composting.

The material should be ready by mid-summer for mulching and sidedressing.

Don't Let the Bugs Beat You to It

Preventive medicine may be a good thing, but the same is not true when it comes to insect control in the home garden. Chemicals should not be applied as a matter of course, but only when you know insects are present and causing damage.

Some vegetables need less watching than others. Melons, corn (except for earworms east of Cascades), cucumbers and squash are relatively safe from insects. Once tomatoes are past the flea beetle and cutworm stage, they too are not as vulnerable.

On the other hand, various types of insects love to feast on broccoli, cabbage, cauliflower, peas, and -- late in the season -- green beans.

The most common insect pests and control measures for each are described below.

Cabbage Maggot. The underground larvae can inflict great damage on members of the cabbage family and radishes. The egg that develops into the maggot is laid by a fly on the stem near the ground level.

A soil treatment with diazinon along the row at planting time will temporarily protect the young plant. (When transplanting sets, ring the base of each plant with one-half teaspoon of diazinon dust, or spray one-half cup of liquid at the base of each transplant.) A diazinon drench directed at the base of the plant each 14-16 days will prevent later season damage.

Onion Maggot. Related to the cabbage maggot, this insect kills seedlings and, later in the season, ruins onions for storage. It is controlled by sprinkling diazinon dust or granules into the open furrow at planting time.

It can also be controlled by sprays of diazinon or malathion directed at the base of the plant. Sprays should be repeated at 10-day intervals until the end of June. Be sure to read the insecticide label closely to determine how close to the harvest the spray can be applied.



Flea Beetle. This tiny, blue-black beetle eats holes in the leaves of many garden vegetables. Potato plants require a drench of diazinon every 2-3 weeks for three applications.

Cucumber Beetle. A green "ladybug" with black spots, it damages vegetables by chewing holes in leaves. Use Sevin, diazinon, or rotenone for control, but apply lightly to avoid plant injury.

Cutworm. Several species of cutworms damage crops by cutting off seedlings at the soil line, eating holes in edible roots, and feeding on foliage. Insecticides applied to the soil at planting time do little or no good.

Hand-picking the climbing cutworm from the plant during the evening, or scratching the soil to uncover them during the day may control them in small areas. A spray or dust of Sevin -- on the infested soil if cutworms are cutting plants below ground level, on the foliage if they are the climbing type -- is also recommended.

Aphids. Aphids come in a variety of colors. Black aphids infest green beans late in the summer. Green aphids are often found on members of the cabbage family and are especially distasteful on broccoli and cabbage where they hide within the head.

Malathion and diazinon are commonly used for control. Frequent removal of aphids by a jet of water from the garden hose may help reduce damage. Resident ladybird beetles may substantially reduce aphid population and care should be taken to protect these predators if they are present.

Cabbage Worms. These larvae attack members of the cabbage family. Covering the plants with a nylon net will prevent the butterfly from laying its eggs on them.

Diazinon, Sevin, rotenone, malathion and methoxychlor will also control them.

Spraying the new growth early and frequently with spores of *Bacillus thuringiensis* will also control cabbage worms. It is nontoxic to humans, wildlife and non-related insects. Trade names include Dipel and Thuricide.

Non-chemical Insect Control

Gardeners who do not want to use insecticides have a number of cultural practices available to reduce the damage caused by insect attack. Non-chemical insect control means accepting a certain amount of insect damage and usually involves additional labor to achieve control. Also, planting a larger garden to obtain the necessary yield to offset insect losses is wise.

1. Avoid or restrict the planting of insect-susceptible crops. White grubs, wireworms, cabbage maggots, onion maggots, and other soil insects cause damage to tuber and root crops (i.e. potatoes, carrots) and to cole crops (radishes, cauliflower, cabbage, broccoli, turnips). Beans, peas, chard, spinach, squashes and cucumbers are more insect tolerant.

2. Fertilize, cultivate, and water well to induce healthy growth. Insect injury is less damaging on a healthy plant. Plant vegetables at the recommended times so they can get a healthy start. Insect attacks on cole crops may be lessened by planting them in early spring and again later in the summer.

3. Use interplantings (as opposed to solid plantings of a given species) to isolate insect infestation and reduce damage.

4. Handpick and destroy pests when feasible by knocking them from foliage into a bucket containing a mixture of water and kerosene or oil. A strong stream of water will temporarily wash away some insects. Also, a simple spray of soap or detergent can reduce some insect infestations.

5. Use hot caps. They not only preserve heat and prevent wind and hail damage, but also ward off early insect attack.

6. Practice good sanitation. Many garden insects overwinter in plant debris. Spade under old plants, such as spinach, lettuce, and cabbage, during the summer or add them to your compost. Immediately dispose of cull onions as the onion maggot will continue to breed in them. As soon as a garden plant is no longer producing, spade it in or put it in the compost pile. Eliminate weeds and volunteer plants; they harbor many pests, particularly aphids.

6. Pyrethrins, rotenone and elemental sulfur are naturally-derived insecticides which may be acceptable to some gardeners.

Vigor a Key to Disease-free Garden

Plant diseases are not likely to strike garden vegetables if the garden is maintained in a vigorous state of growth with adequate nutrients and water.

A well-grown plant seems to withstand disease. And, luckily, there are a minimum of diseases that will cause major damage in gardens.

Diseases that strike the leaves of plants, such as blight on potatoes and tomatoes, can be avoided to a great degree by irrigating in the morning. Afternoon watering may leave the plant wet all night, which provides good conditions for fungus and bacterial problems.

The most serious diseases of potatoes are carried in the seed. These virus diseases can be prevented by the use of certified seed rather than using potatoes from last year's garden or from the grocery store.

Many tomato, cucumber, bean and pea diseases may be avoided by selecting resistant varieties.

Finally, cigarette smokers may transfer certain virus diseases from tobacco to tomatoes, peppers and eggplants when they handle them.

Washing the hands thoroughly before working in the garden will prevent this transfer.



Planting a New Lawn

Planting a lawn should be done in a series of orderly steps.

If the area to be planted is gravelly or consists of heavy clay, it will be necessary to add topsoil to a depth of six inches. But first the sub-grade should be levelled to conform to the slope and topography desired.

(Topsoil is not always necessary. If it is not added, simply rototill, grade and level the native soil and add fertilizer.)

While spreading, leveling and firming the topsoil, work a complete fertilizer containing nitrogen, phosphorus, and potassium, such as 16-16-16, into the soil surface. Apply at a rate of 15-20 pounds per 1,000 square feet.

Then water the area thoroughly. Next, let it dry sufficiently so it can be rolled and firmed and given a final hand-raking to obtain the final slope and topography desired.

Raking will leave the surface rough. This is the way it should be. It is now ready for seeding.

In western Oregon, the standard grass seed planting is a mixture of fine-leaved fescues and colonial bentgrass. The proportion is $\frac{3}{4}$ fescue to $\frac{1}{4}$ bentgrass by weight. Seed can be purchased already mixed. Seed the mixture at the rate of 3 pounds per 1,000 square feet.

Turf-type perennial ryegrass varieties are becoming popular in western Oregon because of greater wear-resistance and ease of care. They can be seeded at five pounds per 1,000

square feet, or mixed with fine-leaved fescues and seeded at the same rate.

The standard lawn grass variety east of the Cascades is Kentucky bluegrass. It may be combined with fine-leaved fescues for greater shade tolerance. In either case, it is seeded at a rate of 3 to 4 pounds per 1,000 square feet.

Turf-type perennial ryegrasses are also being used in eastern Oregon, especially in areas that receive heavy wear.

Distribute the grass seed with a fertilizer spreader or by hand. Go over the area in different directions to assure an even distribution. Then cover the seed by dragging a rake very lightly over the surface.

It is important to leave the surface rough. Lawns should be rolled before seeding, but never afterward. The rough surface will prevent crusting. A crust might keep the grass from emerging.

Keep the surface moist by frequent watering the first ten days or so. This may mean as many as three waterings a day when the sun is out. After the grass emerges, watering can be reduced as the roots develop.

The new lawn should be mowed whenever there is anything to cut. Frequent mowing when the grass is young will hasten thickening. Set the mower at standard height ($\frac{3}{4}$ inch for mixtures containing bentgrass, $1\frac{1}{2}$ inches for bluegrass or perennial ryegrass). Mow the lawn before watering it to avoid compacting the wet soil.

Sod

Offers Choice

For lawn lovers who want to avoid the six to eight week struggle of babying a new lawn into existence, commercial sources of sod are becoming increasingly available.

Sod is an instant lawn.

When installing sod, all the preparations prior to seeding are required. The area should be graded, sloped, watered, rolled and rough-raked.

Sod is usually installed by professionals, but it can also be done by the home landscaper. Do-it-yourselfers should heed the following advice.

1. Install sod on the same day it is delivered. Sod does not keep well in the stack.

2. Sod must be laid on damp soil. Dry soil beneath the sod will pull the moisture out and increase the risk of damage to the new grass.

3. Lay strips of sod in place as tightly as possible, water them, and then roll them. Rolling forces the pieces of sod to expand and join together more tightly.

4. Irrigate the sod daily, sometimes more frequently, until it has "knit" to the soil on which it was placed. This should take 2 to 3 weeks.



Elm Trees Threatened

Recent publicity about Dutch elm disease in Oregon has caused concern among homeowners who have elm trees as part of their landscapes.

In the Northwest, the American elm is the most widely planted and the disease has affected this species the most seriously. Other species of elm are less vulnerable to the disease.

The spread of Dutch elm disease can be slowed but not stopped. Preventive practices should be used in areas where the disease has not hit.

Healthy elm trees get the disease from the European bark beetle, which carries the fungus. The beetle chews the bark and creates wounds, allowing the fungus to enter the wood and block water movement inside the tree.

Spraying the elm trees with an insecticide (methoxychlor) when the buds swell in the spring is an important step in controlling the disease. Thorough coverage, especially in the tops of the tree, is necessary.

Once an elm is infected, leaves on one or more of the upper branches will suddenly and severely wilt, or yellow, and start to dry out. If you suspect the disease, send a wood sample from a wilted branch (1/2 inch in diameter, 12 inches long, not dried or dead) to your

local county Extension office for disease identification.

If the infection is confirmed, prune the infected branches and burn them immediately. When removing infected branches, cut them at least 10 feet below wood showing brown streaks under the bark, or brown rings or areas in a cross section of the branch.

Pruning wounds attract beetles, so be sure to spray the branch stubs with insecticide. Also, disinfect the pruning tools to avoid spreading the disease.

If the disease has not hit your area, you should consider destroying the root grafts between elm trees spaced less than 60 feet apart. In open areas where digging is no problem, dig a trench three to four feet deep and inject a root-killing chemical (Vapam) to destroy the graft. Where elms are planted in a row near streets and sidewalks, removing every second elm, including the stump and large roots, will slow the spread of the disease.

Replant the barren area with a different type of tree.

Spraying to control bark beetles, pruning infected branches, and destroying root grafts can reduce the loss of elms to as little as one or two percent a year.

In Portland, Eugene

Recorded Garden Advice

If you live in the Portland or Eugene metropolitan areas, answers to your gardening problems may be only a telephone call away.

The OSU Extension Service Dial-an-Answer program is a library of recorded answers to nearly 400 common gardening and food preservation questions.

Dial-an-Answer helps you find answers quickly and efficiently, but you must have a Dial-an-Answer brochure to take advantage of the service. The brochure lists the tape recorded topics by number. You select the topic number from the brochure, telephone the Dial-an-Answer number, and ask for the topic number. The tape recordings

are two to three minutes long and can be requested as many times as necessary.

If you live in Portland: brochures can be obtained by writing to Dial-an-Answer, P.O. Box 1261, Portland 97207. The Dial-an-Answer service will operate from 8 a.m. to 5 p.m., Monday through Friday, until the end of September.

If you live in Eugene: brochures can be obtained from the Lane County Extension Office, 950 West 13th, Eugene 97402. The Dial-an-Answer service is a cooperative venture with Lane Community College and operates all year from 8 a.m. to 9 p.m., Monday through Thursday.

Extension Gardening Program

By H. A. Wadsworth
Director, OSU Extension Service

The OSU Extension home and urban horticulture program is a recent addition to more than fifty years of informal off-campus educational programs in agriculture. During those years, other traditional Extension programs in family living and 4-H and youth have been joined by forestry, marine resources and community development.

OSU Extension programs bring practical knowledge to people throughout Oregon. They extend the expertise and knowledge of Oregon State University and the land grant system to all areas of the state.

The Extension gardening program has been expanding rapidly in response to public demand. National estimates indicate that one out of two households are engaged in some type of gardening activity. In Oregon the percentage is likely to be higher.

The aim of our gardening efforts is to help beginning and experienced gardeners alike to get the most from their efforts, not only in terms of productive harvests and esthetically pleasing landscapes, but also in personal satisfaction.

Gardening Publications

The OSU Extension Service has many publications that give detailed information about specific topics related to home gardening, landscaping and food preservation. Single copies of the following publications are free to Oregon residents.

They may be ordered by mail from the Bulletin Mailing Service, Industrial Building, OSU, Corvallis 97331. Please limit your order to 5 or 6 titles of current interest. Order other titles later as you need them.

HOME GARDENING

- EC 733 Pruning the Home Orchard
- EC 768 Growing Strawberries at Home
- EC 797 Growing Rhubarb in Oregon
- EC 819 Growing Tree Fruits and Nuts in the Home Orchard
- EC 824 Soil and Water Management for Home Gardens
- EC 871 Home and Farm Vegetable Garden
- EC 874 Grow Your Own Vegetables
- EC 875 Grow Your Own Beets
- EC 876 Grow Your Own Cabbage
- EC 877 Grow Your Own Carrots
- EC 878 Grow Your Own Corn
- EC 879 Grow Your Own Greens
- EC 880 Grow Your Own Kohlrabi, Turnips and Rutabagas
- EC 881 Grow Your Own Lettuce
- EC 882 Grow Your Own Peppers
- EC 883 Grow Your Own Radishes
- EC 884 Vegetable Garden Plan
- EC 886 Grow Your Own Green Beans
- EC 890 Garden Mulches and Compost
- FS 53 Tomatoes in the Garden
- FS 68 Potatoes for the home Garden
- FS 85 Apple Scab Control in Home Gardens
- FS 138 Garlic for the Garden

- FS 139 Blossom-End Rot of Tomatoes
- FS 143 Fruit and Nut Varieties for Home Orchards
- FS 198 Bitterness in Cucumbers
- FS 220 Collecting and Storing Seeds from Your Garden
- FS 225 Producing Transplants at Home
- FS 230 How to Store Pumpkins and Squash at Home

PEST CONTROL

- EB 747 Vegetable Garden Insect Pests
- EC 738 Control of Root Weevils on Ornamentals and in Homes
- EC 854 Biology and Control of the Garden Symphylan
- FS 229 Rhododendron and Azalea Diseases
- EB 804 Mole and Gopher Control

ORNAMENTALS

- FS 1 Winter Storage of Fuchsias, Geraniums and Tuberous Plants
- FS 12 Azalea and Rhododendron Care and Culture
- FS 95 Dahlia Culture
- FS 102 Fertilizing Ornamental Plants
- FS 103 Fertilizing Shade and Ornamental Trees

- FS 115 Plant Propagation by Leaf and Leaf-Bud Cuttings
- FS 125 Propagation of Herbaceous Plants from Stem Cuttings
- FS 136 Ornamental Gourds
- FS 153 Propagation of Woody Plants from Stem Cuttings
- FS 228 Tree and Shrub Fertilization
- PNW 170 Propagating Plants from Seed

FOOD PRESERVATION

- EC 864 Home Freezing of Fruits and Vegetables
- EC 889 Drying Fruits and Vegetables at Home
- FS 146 Home Drying of Prunes, Filberts and Walnuts
- FS 232 Making Dried Fruit Leather
- EC 855 How to Build a Portable Electric Food Dehydrator
- HG 8 Home Canning of Fruits and Vegetables
- HG 56 How to Make Jellies, Jams and Preserves at Home
- HG 92 Making Pickles and Relishes at Home



OREGON STATE UNIVERSITY
EXTENSION SERVICE

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Richard K. Baum, '47, works for Western Wheat Associates in Portland and recently returned from a trip to the Far East.

Henry S. Steinbrugge, '48, of Portland is president of the Oregon State Board of Engineering Examiners.

Donald Cockeram, '49, lives in Richland, Wash., where he works for the Rockwell Corp. at the Hanford site.

Max E. Smith, '49, teaches high school students in Harrisburg and will be retiring this June.

Robert M. Moreland, '49, is working as a production engineer for the Boeing Co. in the Commercial Aircraft Division in Renton, Wash.

Richard A. Wagner, '49, has retired from the USEPA in Seattle and is now living in Portland.

'50-'59

O. Coleman Hill, '51, is a public utility specialist living in Seattle.

Douglas N. Bennion, '51, is working as a chemical engineer in Bellevue, Wash.

Albert W. Irwin, '52, of Portland has been named vice president of marketing for the Northern Division of McCormick & Baxter Creosoting Co.

John A. Hentze, '53, lives in Junction City where he is a farmer.

Wilbur R. Harris, '54, is a regional director of flight for Hughes Airwest in Enumclaw, Wash.

Harry A. Carpenter, '54, has accepted a position with Texas A&M University under their international program and has been assigned to Tanzania as a livestock marketing officer under a two-year USAID program.

Lt. Col. Edwin L. Greenwood, '54, has earned the third award of the USAF Commendation Medal at Ft. Lee AF Station, Va.

John Nicholas Caspar, '55, lives in Clayton, Calif., and works for Del Monte Foods in Walnut Creek.

Mary Ann Roderick Van Sickle, '57, has earned a master of arts degree at East Tennessee State University.

Lt. Col. Clyde N. Sedgwick, '57, stationed at Schofield Barracks, Hawaii, received a masters degree in February from Central Michigan University. He is scheduled to

attend the U.S. Army War College at Carlisle Barracks, Pa., in July.

Diane Hall, '58, is a credit examiner for Bank of America in Sacramento, Calif.

Norman J. May, '58, is employed as school superintendent in Horton, Ore., and his wife (Patricia Minter, '58) works as a school nurse.

Alumna studies for the ministry



Marguerite Johnson Hessler, '44, first woman president of the OSU student body, is again in a position traditionally held by men. She's enrolled in a doctorate of ministry program, and already has some rights of the ministry.

In her senior year at Oregon State, when student body activities were geared to full participation in the war effort, Marguerite Johnson was first vice president. Don Hall, ASOSC president, was injured at the opening of fall term, so Marguerite not only had the presidential gavel for three weeks, but the responsibility of Freshman Week as well. Early in winter term, she became president permanently when Hall resigned to leave school after his graduation.

With Portland church

So, as told in the 1944 *Beaver*, "Marguerite, senior in secretarial science and member of Mortar Board and Phi Chi Theta, thus became the first woman to serve as president of ASOSC." Her picture also appears with 15 male members of the Alumni Association board of directors.

Mrs. Hessler, now director of program and education at the First Unitarian Church, Portland, became an executive secretary following graduation. Later, when her three sons were enrolled in the church Sunday School, she became an active volunteer, and took her present position 10 years ago.

Enrolled in doctorate program

In 1973 she took the next step, enrolling in the doctorate program at San Francisco Theological Seminary. She attended classes in the summers, and now is ready to write her dissertation.

"At this point women have few role models in the ministry after which to pattern their professional lives," Mrs. Hessler notes. "There is need for women in this field. They bring their own unique viewpoint to situations."

She adds, "Religious tradition is a masculine tradition and today's liberation-minded women and men are beginning to reject oppressive and sexist religious traditions."

JUNE REUNIONS AND GOLDEN JUBILEE

June 9-10-11 Class of 1928 (50th)
June 9-10 Class of 1933 (45th)
June 10 Golden Jubilee
(Classes of 1927 and earlier meet in the MU Lounge before and after lunch.)
Class of 1923 (55th); Class of 1918 (60th)



Nine close friends and former residents of KVK, a women's co-op at OSC in the late '40s, met in January for lunch and an afternoon of reminiscing at the Portland home of Gloria Stuart Kennedy, '47. That evening several of their husbands joined them at dinner in Milwaukie.

The participants came from the three Pacific Coast states and Stavanger, Norway. Pictured above are the 14 present at the dinner -- all graduates in the classes 1946-49. From left to right, standing, Charlotte Feyerabend Fitch, Gloria Winchester Havercroft, Frank Havercroft, Pat Heston Steinbrugge, Howard Heym, Virginia Mornhenwig Besse, Don Kennedy, Barbara Lessard Heym, Iris Harrison Downie, Harold Downie, and Hank Steinbrugge. Seated, from left, are Gloria Kennedy, Steve Besse, Mildred Kingston Small. Not pictured, Esther Vogel Green of Norway.

Hedges on CMAA board

Frank Robert (Bob) Hedges, business administration and food technology graduate of 1951, continues to acquire more non-paying, extra-curricular jobs. Latest for the manager of the Arlington Club, Portland, is his election to the board of directors of the Club Managers Association of America.

Hedges also was appointed to the Club Management Institute, educational arm of the association.

Hedges is a member of the advisory board of OSU's hotel-restaurant program. He is a director of Tournament Golf, Inc., which stages the annual pro women's golf tournament in Oregon.



Prior to joining the Arlington Club, Hedges managed Charbonneau Golf and Tennis Club at Wilsonville and Portland Golf Club.

More news of classmates

'50 - '59 cont.

William L. Rice, '58, is a geologist working for the U.S. Bureau of Mines in Spokane, Wash.

Harry Crosthwaite, '58, of Sunnymead, Calif., has joined the San Bernardino County Schools, Regional Occupation Program staff, and is working with teachers in 11 school districts as an interim coordinator.

William H. Sperber, '59, has been elected an executive vice president of the Rainier National Bank. He and his family live on Mercer Island, Wash.

Charles F. Switzer, '59, is currently chief, Branch of Administrative Management, for the Montana State Office of the Bureau of Land Management in Billings.

Lowell Smith, '59, who is mayor of St. Helena, Calif., now writes a weekly nationally syndicated newspaper column entitled "How Do You Compare?"

'60 - '65

Bobbie Van der Voort, '60, has moved from Seattle to Kansas City, Mo., where she is now the national Executive Director designate of Camp Fire Girls at corporate headquarters.

Lowell H. Smith, '60, lives in North Bend and is principal of Sumner Elementary School in Coos Bay.

Dr. Paul H. Laursen, '61, Dean of the College of Nebraska Wesleyan University in Lincoln the past two years, has been named Provost by the University president.

Maurice Kurtz, '61, is now production manager for the mechanical shops, Pacific Car & Foundry Co., in Renton, Wash.

George J. Pulicella, '61, lives in Eugene where he is district superintendent for Northwest Natural Gas Co.

Mr. and Mrs. Raymond Carl Johnson, '62 (Elizabeth Rush, '64) have moved to Eugene where Johnson is working in the Truck Engine Sales Division for Pape Bros.

V. Gordon Gerttula, '62, has been appointed vice president and general manager of Crown Zellerbach's Containerboard Division based at the company's San Francisco office.

Larry Munz, '62, is a Regional Occupation Program coordinator and is active in statewide vocational education in the San Bernardino County School System.

Don Walls, '63, is the owner of Donn's Place, a commercial consultation business regarding

specimen house plants in Danville, Calif.

Maj. David D. Wiley, '63, and his wife (Linda McClure, '63) are living in Kitzingen, Germany, where Wiley is director of personnel and community affairs for the U.S. Marine Corps base.

David R. Anderson, '64, is working as a state policeman in Beaverton.

Dr. Thomas D. Case, '64, is an ophthalmologist living in Kingston, Wash.

Maj. Thomas G. Collins, '64, has earned the USAF Commendation Medal. He is stationed at Langley AFB, Va., where he serves with a unit of the Tactical Air Command.

W. David Miller, '64, appraiser for Washington Federal Savings & Loan in Hillsboro, has received the senior residential appraiser designation from the International Society of Real Estate Appraisers.

'65 - '69

Kenneth L. McGinnis, '65, is a supervisor of operations for the Union Oil Co. in San Diego.

Larry Thorp, '65, a partner in the law firm of Lively and Wiswall in Springfield, was selected one of Five Outstanding Young Men of Oregon in a program sponsored by the Oregon Jaycees and Pacific Northwest Bell in February.

New PNB president is Andrew V. Smith, '51



Andrew V. Smith, '51, of Bellevue, Wash., has been named president of Pacific Northwest Bell. He has been PNB's vice president-operations since 1970.

Smith joined the Bell System in Portland following graduation. He held various assignments there before being assigned briefly to American Telephone and Telegraph Company headquarters in New York. Following his return to Oregon, Smith was named Industrial and Economic Development manager for PNB in Oregon and became vice president and general manager of the Oregon Area in 1965. He moved to Seattle when he became vice president-operations.

Smith is a trustee and chairman of the investment committee of the OSU Foundation, and a director of U.S. Bancorp, U.S. National Bank of Oregon, and Blue Cross / Washington-Alaska.

He has been active in the King County United Way, and is a member of the Seattle Chamber of Commerce and the Oregon Environmental Council. He and his wife, LaVonne, are members of the Seattle Yacht Club.

Rose Parade Grand Marshal

Tribute paid Lay Leishman

Lathrop K. (Lay) Leishman, '26, who has served the Pasadena Tournament of Roses Association for nearly half a century as a member, president and later Football Committee chairman, has been named Grand Marshal of the 90th New Year's Day Festival, Jan. 1, 1979.

"Looking back over the colorful history of the Rose Bowl," Tournament President Arthur D. Welsh said, "no name stands out more than that of Lay Leishman."

"It was his father, William, who envisioned the famous stadium and headed the drive to construct it. Following in his footsteps, Lay became a member of the Tournament of Roses in 1929, the Football Committee in 1938, president of the Association in 1939, and served as chairman of the Football Committee from 1945 to 1974. He remains an active member of the committee today, serving as chairman emeritus."

During his tenure, Leishman spearheaded the expansion and improvements to the Rose Bowl.

In 1946, he was largely responsible for the signing of the exclusive Rose Bowl Pact between the Tournament of Roses, the Pacific-8 (formerly Pacific Coast) and Big Ten football conferences. This pact remains the most stable of all post-season bowl agreements.

In recognition of his tireless efforts, Leishman has received honors from around the world. In 1974, he was given the "Outstanding Contribution to Amateur Football Award," the first such presentation by the National Football Foundation and Hall of Fame.

In December of 1977 he was given the Big Ten Conference Participation Award and the NCAA Special Award for Community and Collegiate Service. He has been cited for numerous awards from various civic organizations in recognition of his efforts toward the betterment of Pasadena.

Leishman joins some illustrious company. Past grand marshals of the Tournament of Roses include Presidents Eisenhower, Nixon and Ford plus John Wayne, Lawrence Welk and Roy Rogers and Dale Evans from the entertainment world. When Lay was president of the association in 1939, he chose Shirley Temple as his grand marshal.

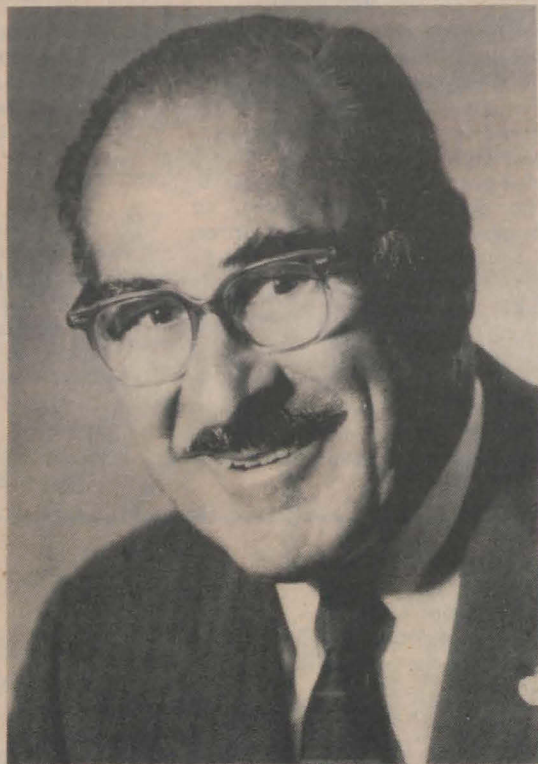
Leishman lives in nearby San Marino with his wife, Marie. They have two sons, Robert K. and Wm. L. Leishman, and a daughter, Linda Leishman Palmer. He and Marie are also the proud grandparents of four and great-grandparents of one.

Leishman was born on Terminal Island, near Long Beach, but the family moved to Pasadena his first year. A few years later, through the foresight and imagination of his father, the names Leishman with Tournament of Roses and Leishman with Pasadena community service formed a link that remains to this day.

But life was not all Pasadena for Lay. In the fall of 1922, he traveled to Corvallis to enroll in business.

He became a devoted Beaver.

In 1970, Lay was asked to write a short piece on his greatest sports thrill. At that time, he had been closely associated with more than 40 Rose Bowl



Lathrop K. Leishman

games, so he had plenty of memorable football games from which to pick a favorite.

But he selected the one game in all those years he had not personally attended.

"Oregon State University, my alma mater, supplied me with my greatest sports thrill nearly 30 years ago," he said by way of opening the article, which was reprinted in the June 1970 OREGON STATER.

They had planned for a Tournament of Rose parade and game on Jan. 1, 1942, as always. Orchestra leader Kay Kyser was to be the grand marshal. Then came the attack on Pearl Harbor. Leishman and Robert McCurdy, the president of the Tournament of Roses Association, flew to San Francisco shortly after the attack to confer with Gen. John DeWitt, commanding general of the Pacific Coast area. The game -- Oregon State versus Duke -- could not be played in Pasadena and was shifted to the Duke campus at Durham, N.C.

Only McCurdy was permitted to travel across country as a representative of the Tournament of Roses. Lay and a handful of others sadly watched a V for Victory parade that morning in Pasadena, only a very small reminder of the traditional huge parade and ceremony.

He went home, turned on the radio and experienced his greatest sports thrill as he and his family listened to the Beavers upset the 5-1 favorite Duke Blue Devils.

"I still maintain," he wrote, "that the score Oregon State 20, Duke 16 represents my greatest sports thrill."

Earle W. Rother, '65, is working as a soil scientist for the Umatilla National Forest in Pendleton, and his wife (Margaret Watson, '68) is a mathematics teacher at John Murray Junior High School.

Derek Hogarth, '65, Gerber Legendary Blades manufacturing manager since 1972, has been elevated to vice president-manufacturing of the Portland firm.

Jerry Mason, '65, operates the Apartment Data Center in the Portland area, while his wife (Connie Frank, '65) has opened a children's book store called the Yellow Brick Road in Beaverton.

Allen J. Gerig, '66, is a soil survey party leader for the U.S. Department of Agriculture Soil Conservation Service in Oregon City.

Ben A. Pike, '66, lives in Anchorage, Alaska, where he is regional technical assistant for the Aleutian Pribilof Islands Association.

John I. Norby, '66, is now working for Lockheed International in Saudi Arabia as superintendent of operation and maintenance in the communication station in Taif.

Harold W. Cook, Jr., '66, is a systems analyst for the UNIGARD Insurance Group in Seattle.

Della Gaunt Larson, '66, is married to a farmer and lives in Warren, Ore.

Lorraine Dee Brightman, '67, works as an educational programmer in the volunteer tutoring organization of Laubach Literacy International in Syracuse, N.Y.

Jack P. Lemmon, '67, is

working as a sales representative for Signode Corp. in Eugene.

William H. Buckley, '67, of Corvallis has been named vice president of the marketing division of Albany-based Home Federal Savings and Loan Assoc.

Dale Meyer, '67, is regional vice president of Tartan Investment Corp., and his wife works for Stan Wiley Realtors in Tigard.

George Sims, '67, is a new industrial education and mathematics teacher at Jefferson High School in Portland.

Miles S. Maxwell, '67, is display manager at Nordstrom's in Bellevue, Wash. He lives in Seattle.

Pamela M. Lasselle, '67, is a medical systems specialist with Beckman Instruments in Redmond, Wash.

Asher honored

James E. Asher, '54, of Twin Peaks, Calif., has been selected "Forester of the Year" by the Southern California section, Society of American Foresters.

Asher is responsible for several timber and land management programs for private landowners in Southern California, including the Lake Arrowhead program. He was cited for his outstanding work in the forestry profession, and "contributions of organizing, preparing and administering highly complex private forest management activities."

Alumni in new positions

Three Oregon State fisheries and wildlife graduates are involved in a chain of recent personnel changes within the Oregon Fish and Wildlife Department.

Clyde E. Smith, '49, has been named supervisor of the Southwest Region, with headquarters in Roseburg. **Robert C. Sayre, '54**, now serves as assistant regional supervisor in LaGrande, in the Northwest Region. He succeeds Smith in that

position. **Don F. Swartz, '65**, has moved into Sayre's former position as staff biologist in charge of recreational salmon and steelhead management in the Portland office of the Fish and Wildlife Department.

All three alumni began their professional careers with the state agency shortly after graduation, and each has had experience in a variety of positions.

Capt. Gary Ballard, '68, is currently a T-39 pilot at Clark AB, Philippines. His wife is the former Patti Todd, '67.

Robert W. Morrison, '68, lives in Tigard and is senior design engineer for Freightliner Corp. in Portland.

Douglas Carl, '68, is now discharged from the Air Force and working for Northwest Natural Gas in the Mid-Willamette Valley district in Albany.

Natalie Essig Cantrell, '68, is working as a flight attendant for United Airlines in Los Angeles. She and her husband live in San Diego.

Suzanne Olson, '68, is employed as advertising manager for the Valley River J. C. Penney Co. store in Eugene.

Mr. and Mrs. Dan J. Harrison, '68 (Karen Charles, '68) have moved from New York to Eden, N. C., where Harrison is a brewing supervisor at the new Miller Brewery.

Lt. Cdr. Philip C. Landon, '68, is stationed at NAS Cecil Field, Fla., and recently left for a two-month cruise in the Caribbean aboard the USS Eisenhower.

Joanne Brown, '68, of Concord, Calif., has been elected vice chairman of the county Delinquency Prevention Commission.

Leighton Hiranaga, '68, is working as the new training coordinator for the United Telephone Co. in Hood River. His wife is the former Rosetta Bowen, '73.

Judith Fries, '68, is the new home economics teacher at the high school in Woodland, Wash.

Barbara Asmervig, '68, works as a sales representative for Syva Co. in Redmond, Wash.

Gregory Barnett, '69, is the new manager at Wolfkill Co. in Lynden, Wash.

Betty Jean Brown, '69, is employed as a home economics teacher at Pleasant Hill High School.

Olin S. Walrath, '69, works for the American Forest Products Co. in Martell, Calif.

Thomas C. Rigor, '69, is working for California-Pacific Utilities Co. in San Francisco and was recently promoted to telephone planning manager.

Marcella Lee Newcomb, '69, has been promoted to staff control officer of Union Bank's Northern California Service Center in Oakland.

Joe L. McFadden, '69, is energy conservation and management representative for Blachly-Lane County Electric Cooperative in Cheshire, Ore.

Paul D. Tamura, '69, is a registered pharmacist employed by Pay Less Drug Stores in Springfield.

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Dr. Thompson to retire Sept. 1

Dr. Thomas S. Thompson, MEd '49, president of Morningside College, Sioux City, Iowa, has announced his retirement, to become effective Sept. 1.

In his nine years as president, he has a long list of achievements and programs he helped guide. The college increased its endowment income more than 300 per cent, and successfully conducted its largest fund raising cam-

Portlander named project engineer



Thomas R. Fries, '69, has been named project engineer for Talbott, Wong & Associates, Inc. of Portland. His major activity will be in the analysis of accidents and failures.

He has been the quality control manager for Fabri-Valve for the last year and a half. Earlier he was with Hyster Company for more than seven years.

After receiving his B.S. in mechanical engineering from OSU, Fries studied at the University of Illinois, and took an MBA at Portland State University in 1975.

The author of a text on engineering aspects of product liability, he also lectures at PSU and UP on that subject. He was co-author of the winning entry in the 1976 Lincoln Arc Welding Foundation Award for the fabrication of high pressure wedge gate valves.

Carla Bartlett Irvine, '69, is a buyer and manager for Frederick & Nelson in Seattle.

William W. Pierson, '69, teaches sociology and history at Umpqua Community College in Roseburg, and his wife is a Lamaze Method childbirth educator.

Ford Nichols, '69, has moved from Albany to Lincoln City where he is the new consumer consultant for Northwest Natural Gas Co.

Pam Swygard, '69, has been named customer service officer at the Lake Oswego office of the Community Bank.

Paul Clinton, '69, returned to campus in February to give a public lecture on printmaking and papermaking demonstrations for art students. His works were on display in Fairbanks Hall. Clinton, whose degree from OSU was in art, has an MFA from University of South Florida in Tampa. He teaches at Fort Steilacoom Community College, Tacoma.

John Richen, '69, is a well-known sculptor in Oregon and Washington and is represented in many art collections in the Northwest.

Jean Major, '69, recently received a masters degree in art education from the University of Oregon and is now teaching art in Grants Pass.

New academic programs were established, and several centers developed. He has also been active in Sioux City civic affairs.

Mrs. Thompson (Margaret Wiese, '38) has also been involved in a number of organizations, including the St. Vincent Hospital Auxiliary, Art Center, League of Women Voters and AAUW.

Bill Huhta, '70, western regional sales manager for Free Flow Packaging Corporation, has been moved from San Francisco to Newport Beach, Calif. His wife Ellen is a sales representative for Boise-Cascade Office Products in Los Angeles. As part of the move, they sailed their boat "Stam-pede III" to their new location.

Charles D. Galloway, '70, has been transferred from Jeddeh to Jubail, Saudi Arabia, where he has been named marine project engineer by the U.S. Corps of Engineers dredging department.

Douglas J. Taylor, '70, is staff supervisor in customer services budgeting for Pacific Northwest Bell Telephone Co. in Portland, and his wife (Lynda Lockard, '70) is secretary to the territory sales engineer for S & C Electric Co.

Roger T. Barnes, '70, lives in Seattle where he is a management consultant for Touche Ross & Co.

Mike Groff, '70, is now a trial lawyer for McAuliffe & Weinberger in San Jose, Calif.

Pam Michael, '70, is a Spanish and English teacher at Springfield High School.

Sylvia Depenbrock Dorney, '70, and her husband have moved from San Francisco to Salem where they have purchased her family's business, Greenbaum's Fine Fabrics.

Corrine J. Bunyard, '70, is presently on sabbatical leave from School District No. 13 in North Bend and attending the University of Oregon in Eugene.

Linda Larson Nicholson, '70, passed her CPA examination last May and is now working for Batelle Northwest Laboratories in Richland, Wash.

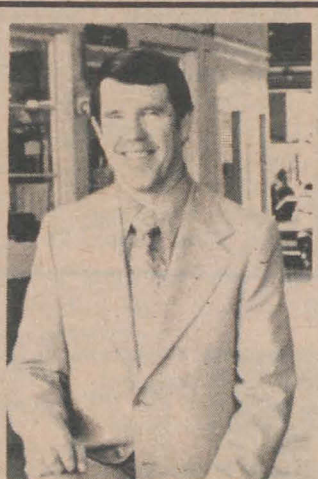
Richard B. Cone, '71, is superintendent of Cone Lumber Co. in Eugene.

Dr. Curt Baumgartner, '71, who was a practicing dentist in the Navy for 2 1/2 years, has opened a general practice in Corvallis.

John B. Becker, '71, is employed as a forester with the Department of Forestry in Grants Pass.

Mr. and Mrs. Robert D. Edwards, '71, (Marilyn Reynolds, '71) have moved from Eugene to Boise where Edwards is now district sales manager for Boise Cascade Corp., Manufactured Housing Division.

Patrick Lynch, '71, has been hired by the City of Eugene as a staff administrator to help the city council members with research and clerical work.



F. Wayne Buck, '62, formerly employed at Joe Romania Chevrolet in Eugene, has purchased O'Toole Chevrolet-Oldsmobile Agency in Corvallis.

Buck served two years in the Navy in the Seabees, then studied at Oregon Technical Institute before coming to OSU, graduating in 1962.

He and his wife (Jane Henzel, '61) have three children.

Belton book out

"Under Eleven Governors" was published by Binford & Mort, Portland, last fall on the occasion of the 60th wedding anniversary of the author, Howard C. Belton, '15, and his wife Mae Brown Belton, '16, who reside in Salem.

In his book, Belton looks back on nearly four decades of service to his adopted state of Oregon (he's a native Iowan). From 1933 to 1970 he was a state legislator from Benton County, a member of two appointive state boards, state treasurer for five years, and for two years senate president, during which he performed for 90 days in the role of Governor.

Many crises, great projects in 40 years

During those 40 years, Belton saw Oregon come through the Great Depression, survive the Vanport flood of Memorial Day 1948 and Christmas floods of 1964, the Columbus Day wind-storm of 1962, and the construction of many great projects, including Bonneville Dam and the Coast highway bridges.

An Ag student, Belton's occupation and livelihood were farming and farm management after he graduated. But public service began early, too, first as clerk of his rural school district, then for two decades on the board of directors of a subscriber-owned telephone company, 15 years on a union high school board, and a dozen years -- two as president -- of a cooperative fire insurance company.

Since Oregon became a state in 1859, Howard Belton probably is the only person to have rendered service under 11 governors.

Russells honored

Mr. and Mrs. J. A. Russell (Josephine Robinson), both '26, were honored at a 50th wedding anniversary reception in Orland, Calif., last summer.

Russell retired from 38 years of teaching and administrative work at Orland High School in 1969. He had received the Freedoms Foundation Teachers Award, and in 1965 was given a three-week trip to the Near East by the local Teachers Association. He was advisor of the California Scholarship Federation for more than 25 years. His community service has included work with the Red Cross, Rotary, American Field Service, and Boy Scouts.

Dr. and Mrs. Mark D. Fischer, '71 (Janet Gressel, '72) are living in San Francisco where he is practicing medicine.

Ernest Hill, '71, who was recently a counselor with the Portland Job Corps Center, is a new counselor at Roosevelt High School in Portland.

John Evey, '71, is working as development coordinator and assistant to the general manager for the Oregon Shakespearean Festival Assoc. in Ashland.

Emery Rogers, '71, has opened his professional office, Emery Rogers & Associates, for the practice of landscape architecture and site planning in the Canessa Park Gallery, San Francisco.

Alan W. Wolfson, '71, works for the U.S. Forest Service at the Rogue River National Forest in Medford.

Frederick Jestrab, '71, is a pharmacist living in Seattle.

Steve Gremmel, '71, is employed as a teacher at South Albany High School.

Robert F. Olsen, '71, is the new manager of marketing at Continental Heller Corp. in Sacramento.

Gary Gustafson, '72, former Marion County and Mid-Willamette Valley Council of Governments planner for the state Land Conservation and Development Commission, has been transferred to Newport where he now has responsibility for the northern coast.

Mr. and Mrs. Keith Ebmeier, '72, live in Sherwood and Ebmeier works as an estimator for Temp-Control Corp., mechanical contractors.

Jerry G. Wallingford, '72, received his professional engineer's license last year and is now a project engineering manager with E G & G Automotive Research, Inc., in San Antonio, Tex.

Lynda Kuhl Taylor, '73, is working as a pharmacist in Portland.

Flying Beavers

The Flying Beaver Alumni Association, that group of OSU Air Force ROTC alums we announced a year ago, is airborne and doing very well.

Records are incomplete, however, for AFOTC graduates prior to 1960. Any of those persons, who have not heard from the AFOTC lately or any others who graduated or participated in AFOTC at Oregon State are invited to write for details to AFOTC, Oregon State University, Room 229 Gill Coliseum, Corvallis OR 97331.

There are about 100 in the group now. They receive a twice-a-year alumni newsletter and a general publication that tells of the activities of AFOTC on the campus.

Dennis Nakamoto, '72, is a registered pharmacist at General Hospital in Everett, Wash. He lives in Bothell.

John Normandin, '72, is district manager for Molded Container Corp. in Portland, and his wife (Christine Stewart, '73) works at the University of Oregon Health & Science Center.

Bonnie Hays, '72, a life insurance agent with Equitable Life Insurance Society in Portland, recently won the Business & Professional Club Pacific district speak-off for young careerists.

Steven R. Kent, '72, has been promoted to the Advanced Design Space Team for the Rockwell International Space Shuttle Program at Downey, Calif. He received his masters degree in Aerospace Engineering from Northrup Institute of Technology last year.

Chuck Mello, '72, is a field engineer with Electro-Test Inc. in the Los Angeles area. He and his family live in Covina.

James B. Eberhardt, '73, has been promoted to assistant manager of the Pasadena branch office of Southwestern Life Insurance Co.

Douglas B. Brown, '73, works as an electrical engineer and group leader on the Boardman Power Plant Project for Bechtel Power Corp. in San Francisco, and his wife (Diana L. Painter, '73) also works for Bechtel as a mechanical engineer and boiler group leader on the Jim Bridger Power Plant Project.

Lloyd Meskimen, '73, is employed as a chemistry, physics, and mathematics teacher at Jefferson High School in Portland.

Kathleen Lucille Benz, '73, is working as purchasing agent of automotive parts for the Benz Spring Co. in Tigard.

Sharon Cook, '73, has moved to Minneapolis where she is now area supervisor in quality control for General Mills.

(Continued on page 14)

'70 - '74 (cont.)

Tom Hodges, '73, is a senior scientist who forecasts crop growth from LANDSAT satellite data at Lockheed Electronics Co. at the L.B.J. Space Center in Houston, Tex.

James A. Mattes, '73, was recently named administrator of the North Lincoln Hospital in Lincoln City.

Maj. Norman F. Rathje, '73, has received the meritorious service medal at Fairchild AFB, Wash., where he is assigned as an aircraft commander.

Mary L. Powelson, '73, is working as a research associate at OSU in Corvallis.

First Lt. Terry L. McIntosh, '73, is serving as a navigator in the U.S. Air Force and is stationed in San Bernardino, Calif.

Ann V. Henderson, '73, is a showroom manager for Langenthal International Corp. in Seattle.

Judith Aiello, '73, is a self-employed graphic designer living in Milwaukie.

Kristin Sue Nelson, '74, lives in Salem where she is working for the Marion County Public Health Department.

Jill Floyd, '74, formerly agriculture editor and general assignment reporter for the Idaho Free Press and News Tribune, has joined the staff of North Willamette News and North Willamette Today in Molalla.

Ann Marie Gerig, '74, is teaching business education at Dallas High School.

Karen H. Ansell, '74, has been working the past year as an administrative assistant to the County Administrator of Washington County. She lives in Portland.

Steven Gray, '74, is employed as a wildlife consultant in Eugene.

John L. Marshall, '74, has been appointed supervisor for contracts and assistant engineer at International Paper Company's Gardiner area sawmill.

Edwin Lee Widgeon, '74, has returned to the United States after three years in Panama and El Salvador and is now working for Morris-Knudsen in Boise.

Patricia E. Woodman, '74, has been commissioned a second lieutenant in the USAF and has reported for training as an administrative officer at Keesler AFB, Miss.

Lynn David Larsen, '74, is an attorney and law clerk for the U.S. Magistrate in Eugene.

Kathy Ann Beck, '74, has received her doctor of veterinary medicine degree at WSU in Pullman and is now doing her residency at Cornell University in Ithaca, N.Y.

First Lt. Sandra M. Scott, '74, has graduated from the Strategic Air Command's combat crew course at Castle AFB, Calif. and has been assigned to Mather AFB, Calif.

Kim D. Scaffarella, '74, is presently serving in the Peace Corps in Western Samoa as a meteorologist.

'75 - '77

Michael J. Fitch, '75, and his wife (Tamalyn Stinson, '75) are living in Eugene where Fitch is an insurance agent.

Barbara Konstad, '74, is studying fabric design at Pratt Institute of Design in New York City.

Harvey Lynn Heckart, '75, lives in LaGrande where he is recreation facilities planner for Union County.

Dan Burt, '75, is employed at Northrup Aircraft Co. in Hawthorne, Calif.

Second Lt. Chef J. Blum, '75, has graduated from USAF pilot training at Williams AFB, Ariz., and has now been assigned to Bergstrom AFB, Tex., for flying duty.

'75 - '77 (cont.)

First Lt. Craig C. Esplin, '75, has been certified as a missile combat crew commander at Malmstrom AFB, Mont.

Keith A. Johnson, '75, is senior health biologist for Tavolek, Inc., in Redmond, Wash.

Rick Bolton, '75, is working as a supervisor and outdoor leader for the Eugene Parks and Recreation Dept. at Amazon Community Center.

Paulette Perfumo, '75, lives in Eugene and is a home economics teacher in Springfield.

George W. Endicott, '75, is a program analyst for the U.S. Dept. of Labor, Employment and Training Administration, in Seattle.

Steven P. Johnson, '75, is presently supervisor for a large independent insurance claims company in Snohomish, Wash.

Jennifer Kawano Oliver, '75, is head of the home economics department at Denny Junior High School in Seattle.

Cicely Hand, '75, is a news reporter for KEZI-TV in Eugene.

Second Lt. Tim Miller, '75, is a member of the security police squadron named best in the Strategic Air Command at Minot AFB, N.D.

Peter V. Potwin, '75, is a CPA and assistant controller for Great Western Malting Co. in Portland. His wife (Cynthia Boldman, '75) is operating officer for U.S. National Bank.

Doug Addisson, '75, is a manufacturing fuel cost analyst for Exxon Nuclear in the Tri-Cities, Wash. His wife, Kathy Eckhout, '75, is production coordinator for Advance Advertising Agency.

1st Lt. David D. McGraw, '75, has a new assignment flying as an F-4E fighter pilot with the Pacific Air Command at Clark AB, Philippines.

Second Lt. Michael J. Scott, '75, has completed flight training at MacDill AFB, Fla., and has been assigned to Kadana AB, Japan.

Jonathan R. Duerst, '76, lives in Eugene where he is in his second year at the University of Oregon School of Law.

Marine First Lt. Rodney M. Cotten, '76, who is assigned to the First Marine Brigade at Kaneohe Bay, Hawaii, has departed for an extended deployment in the Western Pacific.

Linda Marie Cabe, '76, is employed as a medical technologist at St. Peter Hospital in Olympia, Wash.

Kenneth Lynn Brown, '76, is plant superintendent for the Northrup King Seed Co. at Othello, Wash.

Gary Butterfield, '76, has joined the A. H. Robins Co. pharmaceutical firm as a medical service representative in San Diego, Calif.

David B. Monson, '76, is an engineer in training at Parametrix, Inc., Environmental Engineers, in Eugene.

Michael A. Kizer, '76, is now teaching farming methods for A.I.D. in Tanzania, East Africa.

Bruce John Higgins, '76, is an oceanography instructor at Shoreline Community College in Seattle.

Douglas C. Seeley, '76, and his wife (Karen Barrett, '76) have moved to Beaverton where he was transferred as sales representative for International Paper Co.

Patrick Albert Cecil, '76, is an electrical engineer working for Teledyne Corp. in Mt. View, Calif.

Ronald L. Wilson, '76, is a civil engineer living in Eugene.

Janice Christine Tiland, '76, is publications editor for PayLess Drug Stores Northwest, Inc., and is based at corporate headquarters in Beaverton.

Edward S. Riccio, '76, is a microbiologist with the Stanford Research Institute at Menlo Park, Calif.

Operation Trackdown:

OREGON STATER readers are asked to scan this list for names of any fraternity or sorority friends or classmates whose address is known. Following each name is the year of graduation. Current names and addresses should be sent to Operation Trackdown, OSU Alumni Office, 104 MU, Corvallis, OR 97331. And thank you for your help.

Chi Omega

Anna Martin Bolin, '38
Cheryl E. Browne, '67
Evelyn M. Cawfield, '63
Sandra Carmean Coleman, '49
Barbara Smith Diana, '48
Jean Mucha Duynham, '60
Dorothy Johnson Erickson, '53
Judith Randall Fahsholtz, '69
Margaret Reisacher Fisk, '30
Jean Paulsen French, '38
Marie Cumming Fuller, '32
Florence Schanz Gaylord, '31
Susan M. Gore, '65
Beverly Diercks Grant, '64
Maxine Jester Gredvig, '42
Susan Thayer Hagen, '58
Joan Lansinger Honey, '50
Patricia Sweet Johnson, '63
Susan Snook King, '52
Annette Buchanan
Klippensteen, '55
Mary Gauntlett Leitzel, '53
Marion Smith MacLeod, '41
Elizabeth Schermerhorn
Marsh, '40
Suzanne Tharp McMacken, '64
Janet Buckthal Miller, '63
Sandra O'Neal Nutter, '62
Betty Whipple Rawson, '44
Gladys O. Rood, '32
Norma Crosby Russell, '36
Patricia J. Wallace, '47
Sue Osborn Weber, '56
Barbara J. Weding, '60
Janice Crowson Weide, '71

Delta Zeta

Hazel Ballard, '27
Rita Renninger
Bayless, '34
Catherine A. Beckley, '69
Sharon Briggs, '64
Petrionilla Corrado
Dumas, '45
Ruth Mays Ferris, '30
Joyce Kneeland Fish, '48
Frances Parker
Friesen, '22
Rova Koehler Gowdy, '33
Caroline S. Graham, '66
Kathleen Dahl Howell, '69
Geraldine M. Kem, '44
Lois Rowland Kyle, '50
Marcia Folsom
McCormick, '67
Clara Mielke, '28
Mary Beth Minden, '40
Levona Murray, '62
Nina McCord
Nishkanen, '28
Dagney Rudback
Pettit, '28
June Bieraugel
Ranzoni, '72
Donna J. Stephenson, '49
Maxine Paulsen
Stewart, '34
Barbara Waterman, '76
Ellen Wirfs Wilson, '71

Lester A. Robertson, '76, is in the management training program at the U.S. National Bank in Portland.

John W. Baker, '77, has joined the firm of Ned Baker Real Estate, Inc., in Salem, as a sales associate.

Barbara Anthony, '77, is a manager trainee for Parker Apparel Ltd. in the new Vancouver Mall and recently attended a buyers' market in New York City.

Dan Lissman, '77, is teaching in the industrial arts department at Vale Union High School.

Jay Richard Scanlon, '77, is currently a graduate student in landscape design at Harvard University.

Michael Rollins, '77, has joined the staff of the Capital Journal in Salem as the city hall reporter.

Kappa Sigma

David C. Allen, '57
Carl A. Beaudry, '29
Donald F. Bergsvik, '60
Earl C. Brownlee, '13
Chester A. Buell, '21
Charles P. Butler, '72
Blaine A. Christian, '67
James E. Clarke, '35
William W. Crowston, '29
Parker S. Dinwiddie, '59
Frank A. Dresslan, '46
Ralph B. Eaton, '59
Thomas E. Fletcher, '40
Michael L. Harmon, '63
Charles R. Irby, '52
Loren E. Ireland, '41
William J. Kelley, '55
Charles B. Klein, '40
Joseph D. Lewis, '50
David L. Loomis, '68
W. Wendell Monroe, '32
Louis C. Moore, '54
Mervin W. Nelson, '57
John A. Neyhart, '67
Thomas W. Nordby, '25
Leslie W. Olsen, '59
Jerrold N. Pierce, '67
Gordon C. Ragsdale, '18
John E. Ricketts, '51
Arthur H. Ross, '25
William D. Ross, '61
James C. Rouse, '57
Ted B. Tibbuit, '40
Larry J. Whitney, '58
Jack W. Whitsett, '49
William W. Wiard, '50

Delta Gamma

Patricia L. Anderson, '59
Carol Panzer Cranmer, '63
Sue Lesueur
Demarrien, '60
Myrna K. Embree, '60
Lynn Phillips
Faulkender, '72
Karen Graap Griffin, '61
Gayle Davidson Hull, '57
Patricia C. Kellogg, '54
Bonnie Rae Kriens, '69
Doris A. Long, '53
Linda Lucas Lund, '63
Dorothy Watson
Marcoux, '51
Lori L. Oliver, '68
Linda Wilson
Panowicz, '69
Bernice Roberts
Reilly, '50
Michaelle MacCaskill
Robinson, '64
Jo Ann Rohner, '54
Linda Bamberg Sharpes, '62
Melanie Perry Steele, '71
Jean Elkins Sundby, '69
Kristina Frederickson
Zimmerman, '70

Edward Polich, '77, has joined the A. H. Robins Co. pharmaceutical firm in Portland.

Robert D. Poole, '77, has joined Lincoln County's sanitation department as a sanitarian trainee.

Rob Morris, '77, is working as an intern pharmacist at Semper's Rexall Drugs in Myrtle Point.

Bruce Palaniuk, '77, is working as a civil engineer for Oregon Bridge Engineering Co. in Springfield, and his wife (Janet Gossler, '74) is teaching home economics at Cascade Junior High in Eugene.

Linda Clark O'Hara, '77, and her husband William live in Prineville where she is a computer programmer for Les Schwab Tire Centers.

Lambda Chi Alpha

Robert J. Adkins, '60
Harold L. Anderson, '54
Oliver G. Anderson, '23
Richard E. Anderson, '53
Lee W. Collins, '61
C. Jack Coryell, '30
Leon D. Criner, '61
Landon Curtis, '32
William C. Curtis, '60
Lawrence Cywin, '51
Bernard W. Davis, '35
E. Johnny Goodrich, '40
H. Wade Halbrook, '57
George L. Hansen, '48
David Herndon, '57
Kenneth L. Kennington, '61
J. Raymond Kessler, '35
William P. King, '49
Chester E. Kingsbury, '46
William X. Knoll, '59
Herold V. Loughhead, '39
R. Moreland Loughrey, '24
James F. McKenna, '40
Henry C. Myers, '49
Lawrence J. O'Neil, '53
Earl N. Peterson, '36
Burton H. Riley, '28
Farhand Saeed, '60
H. F. Buck Weaver, '38
Rudolph W. Weiss, '60
Craig Wells, '71
Robert E. Wells, '67
Marvin R. Wightman, '31

Phi Kappa Tau

Ralph V. Bain, '54
Lawrence Bellingier, '65
Elmo Lyle Bowman, '50
Alan R. Chastaine, '62
Richard L. Claus, '59
Bruce G. Davis, '61
David Kraemer Edson, '76
Clarence Lynn
Fairbrother, '65
Robin L. Feuerbacher, '74
James E. Gingrich, '53
Kenneth E. Hassel, '51
Lavelle M. Hewitt, '29
Craig L. Larsen, '70
Michael J. Lents, '62
Richard E. MacDonald, '49
Phillip C. McGovern, '35
David G. Tetz, '70
Morton M. Yamasaki, '63

Phi Kappa Psi

Stuart Burk, '30
Merle E. Cannon, '65
James F. Chandler, '49
Lawrence T. Fisher, '29
Michael G. Gadd, '67
Gerald K. Robbins, '50
Stillman J. Wessela, '38
James B. Wilson, '33
James E. Young, '53

Diane L. Kocher, James W. Gibson III, Edward W. Sumida, William D. Sabel, Kent W. Schafer, Paul B. Smith and Calvin L. Huey, all '77, have accepted field engineering positions with General Electric's Installation & Service Engineering Division in Schenectady, N. Y.

Richard D. Iverson, '77, has been named staff forester for site preparation and planting research at the International Paper Company's Western Forest Research Center in Longview, Wash.

Matt Hammack, '77, has been named assistant football coach at Southern Methodist University in Dallas, Tex.

Carole Lynn Cook, '77, is now working as a flight attendant with Delta Air Lines based in Miami, Fla.

From the Staters...

The name **Loring G. Hudson**, '27, which appeared in the March **Stater** story on OSU alumni secretaries and director, brought back some memories for **Arnold D. Collier**, '25. Here are some excerpts from his letter.

If Loring G. Hudson's address is on your record, may I have it? I'm sure we will enjoy a bit of scribbling.

Sincerely,
Arnold D. Collier, '25
7390 65th St. No.
Pinellas Park, Fla. 33565

Dear Sir:

On the summer of 1931 Mr. Hudson and myself were touring in China. Both of us had a delightful summer together.

We spent 1932 living in Honolulu. I received my MS degree in that university and Mr. Hudson was teaching in the Academy of Hawaii.

I returned to Corvallis for the 50th reunion. I was from Florida and President Robert MacVicar put a rosebud in my lapel and told the group how I taught a country school when I hadn't been 18 years old. He told that I had come the longest miles to the reunion.

On April 19, 1924, I was an Acadian when that group organized in Corvallis. My number was 41.

Oregon Stater:

Alpha Xi Delta alumnae, Class of '52, including **Alice Reeves Rankin**, **Bobbie Sausen Smith**, **Rena Toliver**, **B. J. Thomas Lex**, **Jane Drew Newhouse**, **Ramona Thacker Plunkett**, **Mary Lou Leighton Allender**, **Sally Schlegel McFarland**, **Norma Pease Dozier**, **Norma Miller Andrews** and I have continuously corresponded via a Round Robin Letter.

Since graduation these OSU classmates have shared 25 years of lifestyle philosophy, joys, sorrows, tragedies and triumphs. Many were reunited for the first time since school days at the recent class reunion.

Phyllis Armstrong Specht
3540 Grayburn Road
Pasadena, Cal. 91107

IN MEMORIAM

James Albert Wilson, '15, of North Powder; Dec. 3 in North Powder.

Byron Charles Wright, '15, of Portland; Feb. 28 in Portland.

Paul F. Amort, '16, of Portland; March 6 in Portland.

Ruth Carlson Clark, '16, of Portland; February in Portland.

Grace Woodworth Doty, '17, of Brookings; Sept. 1 in Medford. She was affiliated with ACO.

Hazel Strief Hayslip, '20, of Everett Wash.; Feb. 2 in Everett. She was affiliated with KAT.

Wallace Ellsworth Niles, '21, of Dunedin, Fla.; December in Dunedin.

Hokan Nathaniel Truedson, '23, of Sarasota, Fla.; Feb. 19 in Van Horn, Tex.

Guy E. Savage, '23, of Scarsdale, N.Y.; Nov. 24.

Thomas Roy Brown, '25, of Thermal, Calif.; Feb. 19 in Thermal.

Lucius Woodward Boardman, '26, of Phoenix, Ariz.; Oct. 7 in Phoenix. He was affiliated with SAE.

Myron Dale Chipman, '26, of Portland; March 11 in Portland.

Frans Albert Wuopio, '27, of Sunnyvale, Calif.; Feb. 26 in Sunnyvale.

Mildred Bucknum Horton, '29, of Santa Rosa, Calif.; Feb. 24 in Santa Rosa. She was affiliated with KD.

John Jacob Grauer, '29, of White Rock, B.C., Canada; Jan. 10 in White Rock.

Stewart William Hoyt, '30, of Portland; Feb. 15 in Portland. He was affiliated with PSK.

John Sidney Johnson, '30, of Santa Rosa, Calif.; Dec. 6 in Santa Rosa.

Robert Frank Lusk, '30, of Grants Pass; Dec. 10 in Grants Pass.

Harry N. Lancaster, '31, of Las Vegas, N.M.; Feb. 18 in Las Cruces, N.M.

William Helmuth Gropp, '32, of Lompoc, Calif.; March 9 in Lompoc.

Norman Windsor Hendershot, '32, of Pleasant Hill, Calif.; Oct. 30 in Pleasant Hill. He was affiliated with SAE.

Royse Isador Clayton, '33, of El Cerrito, Calif.; Dec. 29 in El Cerrito. He was affiliated with SAE.

Jack C. Boggess, '34, of Hesperia, Calif.; Jan. 8 in Hesperia.

Henry Walter Berkey, '34, of Kihei, Maui, Hawaii; Jan. 22 in Kihei. He was affiliated with SPE.

Jane Blair Wilson, '38, of Corvallis; March 13 in Corvallis. She was affiliated with KKG.

Harvey William Ostrom, '39, of Sherman Oaks, Calif.; Jan. 3 in Sherman Oaks.

George N. Kuvallis, '40, of Portland; Jan. 9 in Portland. He was affiliated with ASP.

James Patrick Dolan, '41, of Palo Alto; Feb. 22 in Seattle.

Barbara Beane Maxwell, '45, of Walnut Creek, Calif.; Sept. 1 in Inglewood, Calif. She was affiliated with AGD.

Charles Elmer Funk, '48, of Springfield; December in Springfield.

Samuel Edward Craig, '51, of Tempe, Ariz.; April 24 in Tempe.

Elmer Reinhold Norberg, '51, of Boise; Jan. 18 in Boise.

Russell W. Bonlie, '58, of Philomath; Dec. 6 in Philomath.

Roger Duane Iverson, '58, of Twin Lakes, B.C. Canada; Jan. 18 in Twin Lakes. He was affiliated with AGR.

Ronald Frisbee Headland, '68, of Lakeland, Fla.; Jan. 10 in Lakeland.

Lowell Thomas Harris, '74, of Corvallis; Feb. 22 in Corvallis.

Roy L. Patrick, '25, retired president of Napa College, Napa, Calif., died Feb. 5 in a Napa hospital following an illness of several months. He was 76.

Mr. Patrick, a native of Roseburg, had been president of the College from 1955 to 1965, and had been in the Napa school system for many years prior to assuming that position. He received his master's degree from OSU in 1928.

He is survived by his widow, **Phyllis Patison Patrick**, '26, two OSU alumnae daughters, **Mary (Mrs. William M.) Laughton** of Napa, and **Peggy (Mrs. Norbert) Vandehey**, '64, of Eugene, and several grandchildren.

At OAC, he was affiliated with Theta Chi.

Pioneer in KOAC, KOAP broadcasting

Grant Feikert dies at 72

Grant S. Feikert, '30, a member of Oregon State's engineering faculty from 1933 to 1971 and one of the broadcasting industry's most noted engineers in the Northwest, died of a heart attack March 25 in San Carlos, Sonora, Mexico, where he and his wife, Cathrine, were vacationing. He was 72.

The son of Charles Stephen and Anna S. Feikert, he was born March 20, 1906, in Days Creek, a tiny community east of Myrtle Creek in Douglas County. In 1908 his family moved to a farm in Orchard, Neb. Upon the death of his father, the family returned to Oregon and lived briefly in Medford before moving to Corvallis.

Prof. Feikert graduated with a major in electrical engineering in 1930 from Oregon State. He received a master's degree in physics in 1932 and became a registered electrical engineer in 1937.

KOAC engineer many years

Concurrent with his teaching duties at OSU, he was for many years chief engineer at KOAC. He designed and directed construction of KOAC-TV, which went on the air in 1957, and of KOAP-TV, and the two stations became the Oregon Educational Television network in 1961. As overseer of engineering of this network and radio KOAC and KOAP-FM, he was given the title of Systems Engineer for Oregon Educational Broadcasting.

Through these years and long after his retirement, Prof. Feikert was in demand as an engineering consultant to commercial radio and television stations all over the Pacific Northwest. He served as a consultant and examining engineer for the Federal



Communications Commission. He had been a pioneer in a highly technical industry and remained one of its leaders for nearly half a century.

He was a senior member of the Institute of Electronic and Electrical Engineers and a member of Eta Kappa Nu and Sigma professional fraternities.

Ham radio, movies, planes

Closely allied to but separate from his professional pursuits was his home ham station operation with the call letters of W7DE. Motion pictures were also one of his hobbies and he had a large collection of motion picture equipment and films. Still another interest helped with other activities and professional demands. He was a licensed airplane pilot. "I've gone through two airplanes," he

was quoted in a 1970 article when he was 64. "... just fly enough now to keep my license."

He married Leta Davies in 1927. She died in 1975. He married Catherine Davis Young in 1976.

Surviving are his wife, Cathrine '28, of Corvallis; one son, Stephen of Portland; a daughter, Mrs. Darrell (Ann) Wilson of Jefferson; a stepdaughter, Mrs. Stanley (Rita) Kilstrom, '59, of Oakland, Calif.; stepsons, W. Jack Young of Central Point and Delos Young, '52, of Seattle; a brother, Raymond C. Feikert of Albany; five grandchildren and 10 stepgrandchildren.

The family suggests memorial to the OSU Foundation to provide scholarships for students in the Department of Electrical Engineering.

George Henderson,

Fiji founder

A founder and charter member of Phi Gamma Delta at OSC, **George Henderson**, '21, died Feb. 17 at Barstow, Calif. He is survived by his daughter, Mrs. Maxine Kruse of Fort Worth, Tex., and his son, George C. Henderson of Barstow.

Fred McHenry,

Retired judge

Fred M. McHenry, '09, died in Corvallis April 9 at the age of 88. He retired as circuit judge for Benton, Linn and Lincoln counties in 1964, but continued to practice law until his death.

Survivors include his son **Joe B. McHenry**, '46, of Corvallis, Jane (Mrs. Horace) Howells, '39, of Carlsbad, Calif., and Rae (Mrs. James) Randall of Eugene. Mrs. McHenry died in 1973.

Faculty

David P. Moore, '46, former professor of soil science, died March 29 in Ithaca, N.Y. He was director of the USDA plant, soil and nutrition laboratory at Cornell University.

Prof. Moore had been on the OSU faculty 1960-77, and for five years had served as assistant director of the Agricultural Experiment Station with specific responsibility for overseeing operations of the branch experiment stations.

He is survived by his wife Ruth and two children. The family suggests any memorial donations be made to the Oregon Heart Association.

MARRIAGES

Roger R. Gray, '69, and **Louie M. McMurdo**, Mar. 11 in Portland.

Mark Willis Coil, '77, and **Jeannette Beth Trudeau**, '77, Feb. 2 in Portland.

John Harrison Marsh, '76, and **Debra Rose Raniere**, '77, June 18 in Corvallis.

David E. M. Bucy, '77, and **Mary McCauley**, '77, May 15 in Corvallis.

Mark Doverspike and **Susan Hotchkiss**, '77, June 12 in Burns.

Richard Paul Grigsby, '77, and **Lynne Ann Fischer**, July 23 in Portland.

Robert James Coussens, '74, and **Susan Jean Pollock**, '76, Nov. 26 in Hillsboro.

Patrick R. Quesnel and **Marilyn L. Caton**, '75, Feb. 18 in Portland.

William A. O'Hara and **Linda S. Clark**, '77, Aug. 20 in Newport.

Gary Alan Sadewic, '76, and **Tina Mardell Yatsko**, '76, Feb. 25 in Portland.

James Moncrieff Thomson and **Sharon A. Brockman**, '74, Feb. 4 in Portland.

Jeffrey Leighton Mock, '75, and **Janet Lee Konstad**, '76, Feb. 25 in Portland.

Michael William Hilbruner and **Robert Ann Wilson**, '73, Feb. 4 at Timberline Lodge.

David M. Rambin, Jr. and **Susan F. Shuman**, '73, Feb. 4 in Portland.

Lawrence H. Snyder and **Carol Marie Elliott**, '73, June 17 in Mt. Prospect, Ill.

Douglas C. Latham and **Hollis C. Graves**, '77, Aug. 27 in Sheridan.

Timothy E. Addleman, '77, and **Jan Kathleen Rodgers**, '77, July 16 in Salem.

Philip Laurence Murphy, Jr., '77, and **Elaine Winelle Coogan**, '77, Jan. 28 in Portland.

Alan W. Hinman, '76, and **Becky Armstrong**, Jan. 21 in Lewiston, Idaho.

Bruce Buchanan, '76, and **Patricia Ellen Merkes**, Nov. 25 in Kenai, Alaska.

Phil Santilli and **Lynn Stirek**, '77, Aug. 5 in Lake Oswego.

Bruce Jeffery Palaniuk, '77, and **Janet Lee Gossler**, '74, July 30 in Springfield.

Kent A. Smith, '70, and **Bonny Lou Richmond**, Jan. 14 in Salem.

Jim DeCosta, '77, and **Madelene Haener**, June 4 in Woodburn.

David DeLateur Hart, '77, and **Cassandra Jane Warner**, June 11 in Connell, Wash.

Terry L. McIntosh, '73, and **Harriet S. Fischer**, '75, May 7 in Applegate.

Reedy W. Anderson and **Genevieve Chapman Callan**, '36, Oct. 7 in Vancouver, Wash.

Survey team lists alums

Merlin Eltzroth, '74, of Corvallis, is coordinator of the Northwest Section of a nationwide highway-wildlife survey by the Urban Wildlife Research Center. The Center is a non-profit organization with headquarters near Baltimore, Md.

Field biologists employed on the project include **Norman M. Barrett II**, '77, **Robert G. Bolton**, '78, **Jane S. King**, '78, **Barry Schreiber**, '76, and **Steven P. Smith**, '77, Corvallis; **Christopher G. Carey**, '76, Albany; **Randy L. Floyd**, '75, Eugene, and **Mary K. Marcoulier**, '77, Applegate.

Leaving May 28. . .

OSU choir to tour Europe

The 50-voice Oregon State University choir will participate in the St. Moritz (Switzerland) International Choral Festival in June and then will embark on a three-week concert tour of the Soviet Union, Scandinavia and Great Britain.

It is one of six choirs invited to perform in the International Festival, "a very special honor," said Prof. Ron Jeffers, director of choral activities. Also featured will be Neville Marriner, famed English conductor, and the Prague Symphony Orchestra.

"One week of combined rehearsals will culminate in performance of the Haydn 'Creation' in St. Moritz, Lausanne and Interlaken," Jeffers said.

Also to record Colonial music

The choir also has been invited to record an album of colonial American music for the Rockefeller-

funded project with New World Records in May, he reported. The recordings will be distributed nation-wide to libraries and universities in addition to being commercially available.

Jeffers said the choir would leave Portland for Europe on Sunday, May 28. Immediately after the Choral Festival, the choir will present concerts in Stuttgart, West Germany. Then performances are planned in Moscow and Leningrad, Russia, June 10-14; Stockholm, Sweden, 16-17; Norway (Oslo, Bergen and the Fedje Island), 18-22; and London, 24-25.

The group will leave for home June 26.

Each student will provide a minimum of \$1,000 toward trip expenses, Jeffers reported. An additional \$24,000 will be realized from concerts, grants and projects undertaken in 1977-78, he said.

1978 FALL REUNIONS

Sept. 9	No reunion, but
BYU 6 p.m. kickoff	pregame barbecue
Sept. 30	Pregame barbecue.
UW, 6 p.m. kickoff	Classes of 1942, 1943,
	1944, 1945 (35th)
Nov. 11	Class of 1953 (25th)
UCLA, 1:30 kickoff (Homecoming)	
Nov. 18	Classes of 1937,
ASU, 1:30 kickoff	1938 (40th);
	Class of 1958 (20th)

(Note: No 5, 10 or 15-year reunions are scheduled. See page 19 for complete football schedule.)

Sports camps offered

Once again this summer there will be a marvelous opportunity for the younger set of Oregon State families -- OSU sports camps. These proved to be very popular last summer and promise to be even more so this time.

For one thing, something new has been added.

For the first time this year, Women's Athletics at Oregon State University is offering summer sports camps for girls, all headed by OSU's women's athletic coaches and their staffs.

Campers will have a choice of four sports -- track and field, gymnastics, tennis, and volleyball -- all to be taught on the OSU campus.

Will Stephens heads the Will and Roger's Oregon State Spikette Track and Field Camp Aug. 20-25 for high school and college age athletes. Junior high youngsters from the local area only will also be accepted as day campers.

Stephens and his staff of state, national, and international champion coaches, will emphasize different training techniques and conditioning, along with a time trial at the end of the camp to give the athletes a chance to perform.

Track, tennis, gymnastics, volleyball included in new camps for girls

Gymnastic, volleyball, and tennis camps will be held Aug. 13-18 and again Aug. 20-25.

Ron Ludwig's gymnastic camp will be for gymnasts ages 9-18. The first week will be for beginners and the second week for advanced gymnasts.

Ludwig and his staff will cover optionals on the four women's gymnastic events -- tumbling, vault, uneven bars, and balance beam, plus dance. Open work-outs in the evenings and special lectures will also be featured.

A volleyball camp for jr. high and high school age girls will be conducted by Rita

Emery and her staff of assistants. Emery is currently the women's softball coach at OSU, but has coached volleyball throughout California. OSU's volleyball team members will also help Rita with instruction.

Patty Nevue's tennis camp for girls will be limited to only 24 campers per session, ages 12-18. The number has been limited, so she can provide more individual attention to participants. Films, ball-machines, and conditioning will all be part of the instruction.

All overnight campers will be staying in supervised University dormitories at a cost of \$137.50. This fee includes room, board, insurance, instruction, and a T-shirt. Participants will have the option to come as day campers (lunch and dinner only) for \$95.

Since all four camps will be in operation together, they will share housing and participate in several coordinated recreational activities including tennis, volleyball, swimming, softball and others.

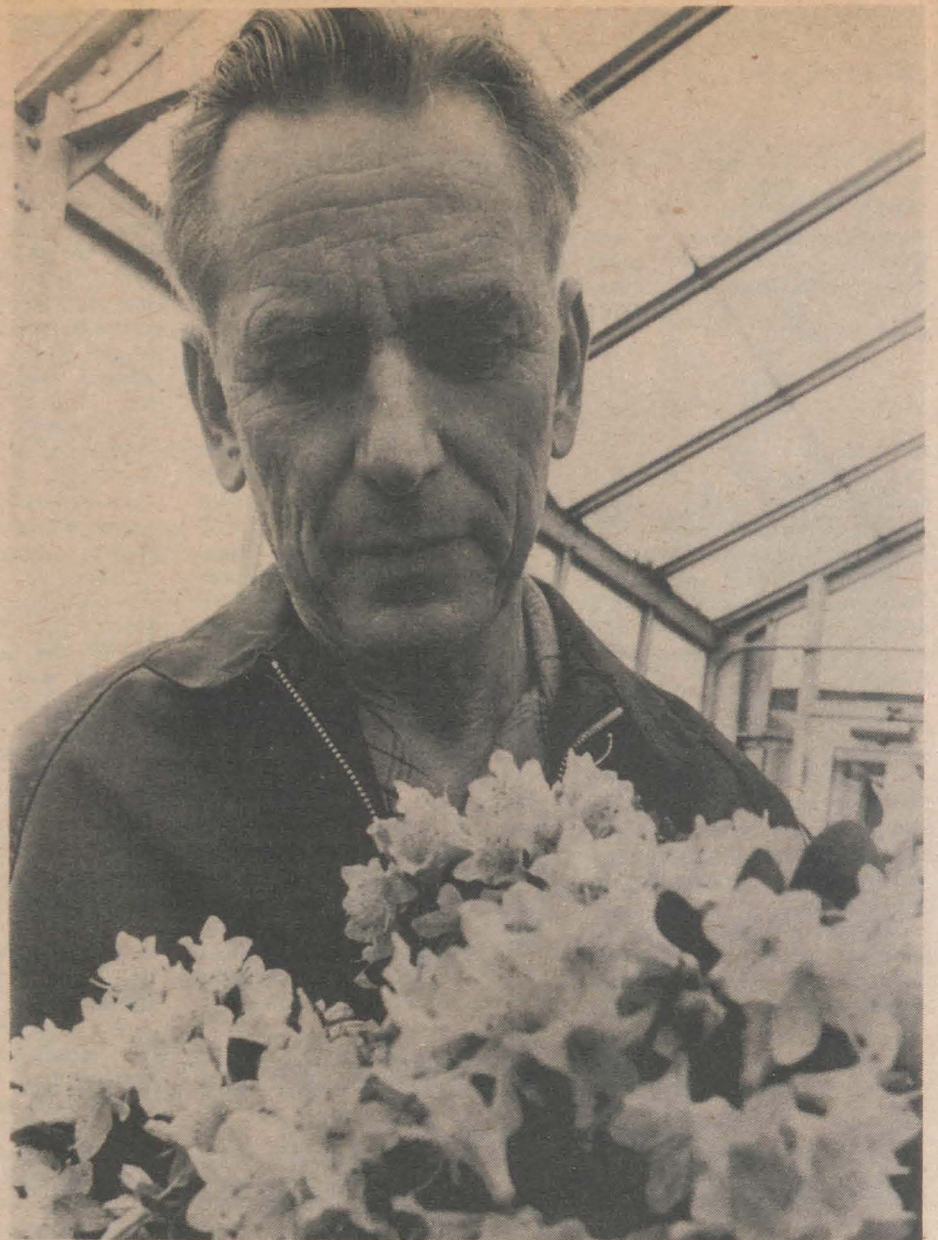
Complete information on the Girls' Summer Sports Camp is available by writing to the particular coach for the sport in which your youngster is interested. All may be addressed to Women's Athletics, 120 Women's Building, OSU, Corvallis, Ore. 97331.

No girls' basketball is offered by Women's Athletics, but those girls interested in basketball certainly have a great opportunity at OSU. Coach Ralph Miller's very popular Beaver Basketball Camp is for girls as well as boys. The age limit is 9-18, excluding high school graduates.

The three sessions are June 25-30, July 23-28, July 30-August 4.

Once again, Gill Coliseum will be set up so there are three full courts available inside. Eight other indoor courts will be available to the campers. As with all these groups, basketball campers are grouped according to skills and ability.

Coach Miller actively participates in the camp as do his top assistants, Jim Anderson and Dave Leach, along with



Robert Ticknor, ornamental horticulturist at OSU's North Willamette Experiment Station near Aurora, has developed a green flowered rhododendron named "Shamrock" that blooms appropriately on St. Patrick's Day.

The new rhododendron is a cross between two very light yellow flowered plants. "I won't say that this is the first green flowered rhododendron in history," said Ticknor, "because I have seen some strange combinations and colors. But this is the first one that I know that will grow well and repeat its color consistently."

A cross-bred plant, sometimes called a hybrid, usually doesn't repeat itself consistently from seed. Once a plant with desirable characteristics is raised from seed, it must be propagated from cuttings to make sure it retains the desired qualities.

"It has taken me since 1971 to get enough cuttings and plants established to make sure that this one definitely is green and will continue to be green," said Ticknor.

some noted high school coaches and a number of former collegiate players.

Campers may stay on campus in a University dormitory. There will be supervision by counselors and staff members at all times. Cost of this option is \$125.

Two other options are possible. A youngster may be a day camper, being involved from 8:45 a.m. to 8:30 p.m. with lunch and dinner provided for \$90. Or there is the "brown bag special" without meals for \$70.

Fertig football camp has supervised contact

Coach Dale Thomas' Double D Wrestling Ranch provides an up-in-the-mountains experience. The ranch is located in the Coast Range, 32 miles west of Corvallis. In this rustic, beautiful, mountain setting, Coach Thomas has constructed excellent wrestling facilities.

There are six-week-long sessions: June 18-24, July 9-15, July 30-August 5, August 8-12, August 13-19, and August 20-26. The fee is \$100 per session.

Camp sessions at Double D are limited to 66 campers with at least one adult counselor for every 15 boys.

Double D was constructed exclusively for wrestling. There are free-time recreational activities, however, including fishing, hiking and swimming in the natural setting. The camp also has billiards, ping pong and films.

The program is designed to teach techniques in Free-Style, Greco-Roman and Collegiate (Folkstyle) wrestling. Coach Thomas points out that competition is de-emphasized in favor of individual skill development at the camp.

Coach Steve Simmons is assisted by his regular assistants, Dean Clark and Steve DeAutremont as well as some collegiate champions in the operation of the Steve Simmons Beaver Track Camp, which is

also for both boys and girls and held earlier in the summer than the Stephens camp.

There are three five-day sessions, June 19-23, June 26-30, and July 24-28 for youngsters 9-18, excluding male high school graduates. As with the basketball group, the campers have a choice of an overnight, day or "brown bag" option.

The tuition is \$130, \$75 or \$35 respectively.

The emphasis will be on technique and training. There is videotaping of training sessions daily. Simmons says he and his staff can guarantee technical improvements in all events.

Craig Fertig's Beaver Football Camp was one of the most successful boys football camps last summer and again is expected to attract a large attendance for the two sessions, July 9-14 and July 16-21.

Fertig and his entire eight-man staff of full-time assistants will assist with the camp. Ed Sowash, a veteran of the John McKay and other camps in California, is Beaver Camp coordinator. And the staff also includes former OSU football coach and present athletic director Dee Andros plus a number of guest coaches from colleges and high schools up and down the Coast.

There is supervised, limited contact with youngsters of the same age and body build. They are fitted with protective gear by the staff and trainer.

Housing is in Finley Hall. Boys are age 8-18 and cannot be graduating seniors. Tuition is \$160 for the overnight plan or \$100 for day only, which includes lunch and dinner. Group rates are available.

Fertig says the camp stresses hard work but fun is the key ingredient in the football program.

Complete information on the Men's Athletics coaches' camps is available by writing to the particular coach of the sport or sports in which your youngster is interested. All may be addressed at Gill Coliseum, Corvallis, Ore. 97331.

New coaches added

Oregon State's women's softball and tennis teams both have new looks this year -- Rita Emery (softball) and Patty Nevue (tennis), new head coaches.

Emery and Nevue are the third coaches for their teams in three years and despite the changes in coaching staffs, are aiming for successful seasons their first years.

Emery's softballers return nine players from an 18-13-1 team that finished 12th in the nation last year. Included in that list of nine is OSU's star pitcher, Denise Smail. Smail pitched 16

wins and 9 losses last year, including four straight victories at the regional tournament. Already, she is credited with three shut-outs in four games and an ERA of 0.00.

Yogi Johnson leads hitters

Yolanda (Yogi) Johnson, the team's leading hitter, returns at first base. She currently is batting .524 including three doubles, one triple, and three home runs in eight games.

Others returning are Taraleen Elliott, Melinda Farm, and Penny Fischer, pitchers; Janet Haglund, catcher; Denise Petersen, third base; Shelley Willis and Dawn Wood, right field.

Hitting, which seemed to be a sore spot for the Beavers last year, has improved under Emery. Three OSU batters are averaging .500 or better and five others are over .333 at the plate.

"Offensively, we're much stronger," said Emery, whose team has accumulated 78 hits in an eight-game series through California in early spring.

Although she prefers to take one game at a time, the final team goal is nationals. Of course, the Beavers would like to go again and better that 12th place finish from last year.

SOFTBALL RESULTS:

OSU VS. OPPONENTS

11 vs. U. of San Francisco 0
13 vs. San Francisco 2
20 vs. Cal. State Hayward 0
9 vs. Moorpark College 0
4 vs. Moorpark College 7
17 vs. Yuba College 2
18 vs. Yuba College 0
9 vs. DeAnza College 2

Tennis, unlike softball, has had a slow start, because Nevue wasn't hired until March 1 for a season that began April 6.

The team is 1-1, having defeated Portland State but losing to the University of Washington.

Julie O'Hearn, Caroline Moseley and Mary LaFountain return from last year's team that won the Southern Area Tournament and finished sixth at the regional championships.

Moseley, from England, is playing number one singles and is 2-2 thus far, while O'Hearn plays at number two and holds the same record. LaFountain is recovering from a knee injury.

Steinbrugge, Toole join squad

"Actually, I have four players with a lot of experience," commented the OSU coach of O'Hearn, Moseley, Peggy Steinbrugge and Liz Toole. Steinbrugge and Toole are newcomers and Nevue is expecting them to be a big help to the team. "They have a lot of potential," she added.

Steinbrugge transferred from Portland State, where she played number three singles. Toole was the number one singles player at Crescent Valley High School (Corvallis). She won the Class AAA district singles title and finished fourth at the Oregon state meet.

No area tournaments will be on the schedule this year as had been the case in the past. Instead, all 15 northwest teams will battle in the regional tournament. This is the first year that OSU will meet with several Washington schools before the regionals. All tournament players who reach semi-finals will then move on to the AIAW Qualifying Tournament in Missoula, Mont., May 19-20.

TENNIS RESULTS:

OSU VS. OPPONENTS

8 vs. Portland State 1
0 vs. Washington 9

Changes in golf schedule

Oregon State University will play an altered women's golf schedule this season. The women's program, hurt by the University of Oregon dropping its women's golf program, becomes one of two collegiate teams in the northwest. The University of Washington is the only other northwest school that supports a women's golf program.

Oregon State plays its first four tournaments against Washington at different northwest golf courses. Its final tournament will be played against the University of British Columbia at the Corvallis Country Club May 5-6, instead of the previously scheduled Daisy Duck Invitational. Luckily, OSU played a fall schedule and can use those scores to count in the 10 needed, if the Beavers wish to be in contention for national competition.

Some tournaments too far away

"There are other tournaments, but we of women's athletics just don't have the budget to fly to California, New Mexico, Arizona, or Wyoming," said Coach Mary Covington.

Approximately 13 women turned out for the golf team this year. Malia Folquet, who won medalist honors in two of the three tournaments OSU entered last fall, will lead the squad. "There's definitely an interest and many good high school golfers in Oregon," said Covington.

Because of budget, OSU is in danger of losing its women's golf program. The Women's Athletic Board has already voted to drop golf scholarships for incoming freshmen beginning fall term.



Catcher Janet Haglund

Women's coach hopes to attract talent

By Jeff Hollenbeck, '79

Sitting at his desk with a large poster of Albert Einstein hanging on the wall behind him, Oregon State's new women's track and field coach, Will Stephens, quietly comments about the future of his team.

"I don't see us catching them (Oregon and Washington) for at least three or four years. Those teams have about a four year jump on us, but by 1980 we'll be running with Oregon."

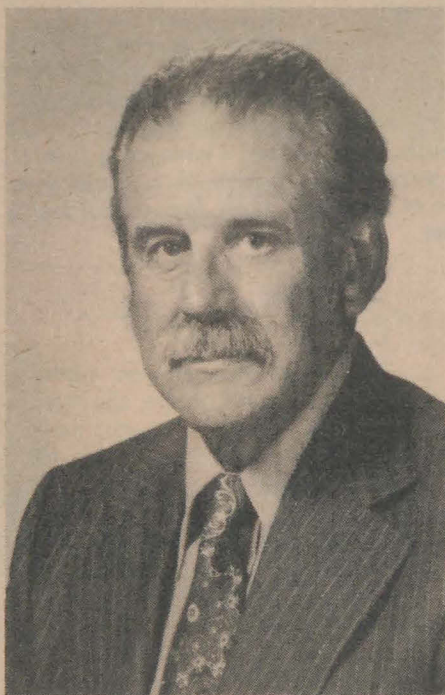
The poster of Einstein is quite appropriate. Not only does Stephens resemble the famous scientist with his thick mustache and wavy hair, but his experience with track and field competition nearly equals Einstein's knowledge of physics.

Hired last fall to oversee the women's cross country and track and field teams, Stephens is a former Sacramento, California, high school and AAU coach. He coached the highly successful Encina High School track and field team where the name "Will's Spikettes" was coined for his runners.

During his 18-year career with the school, Stephens had 33 individual varsity conference championship winners. In addition he coached six American AAU teams which competed against the Russians and the British. Stephens also coached three members of U.S. Women's Olympic teams and eight individual performers who have represented the U.S. in international competition.

Most recently, Stephens was appointed Western Region coach for the United States Olympic Committee's first National Sports Festival. The sports festival, which is part of a new Olympic training program, will be held at the Air Force Academy in Colorado, July 26-30. Chosen from a list of AAU and collegiate coaches by the national governing bodies of the U.S. Olympic Committee, Stephens will be in charge of choosing a national

calibre women's track and field team that will represent 14 western states. Athletes who make the team will be possible candidates for international and Olympic competition.



Will Stephens
Sets three years
for building teams

Stephens' optimistic look at the future of women's track at OSU is based on a long range plan of recruiting talented athletes and building a strong, competitive team. He's faced with two major problems, little support in the form of scholarships for the women and the lack of notoriety that the team has on a national level.

He's already in the process of building and structuring the quality of his team

which he feels will be at its peak within three years. "First I'm working on building good front runners, one good runner in each event, which would give us a chance to be competitive. Then it's going to take about another three years to get second and third place people to provide depth," explained Stephens.

Stephens recently signed New York sprinter Pat Frost to his team, who holds a best time of 10.5 in the 100-yards and is considered one of the top five high school sprinters in the nation. "You don't know really how people are going to develop, but with Pat running a 10.5 in high school, I'm sure she could develop into a national Olympic caliber athlete," said Stephens.

Stephens is also banking on talent he already has, such as sophomore Cathy Kvavle who runs a 14.63 in the 100-meter hurdles, discus thrower Jean Melson and high jumper Anne Fischer. At the recent Willamette Invitational meet in Salem all three athletes placed first in their respective events with Fischer qualifying for the AIAW nationals in the high jump.

Stephens is very particular about the conditioning of his girls and doesn't believe in placing them in events that they are unfamiliar with. "I don't believe in putting people in events just to fill them. It's a good way for the athlete to injure herself participating in an event that she was not trained for."

Stephens is a demanding coach. Most of his runners and field people find themselves putting in 13 to 18 hours a week in practice, running as much as 62 to 66 miles for sprinters and 42 to 45 miles for hurdlers. "I demand quite a bit from my program. I have been involved with AAU for about 17 years and I ask a lot of the athletes," said Stephens. "I have them on strength building programs which puts a specific type of weight training on a specific event. This sort of

thing takes a great deal of time, with some of the women running twice a day at least three times a week."

But Stephens' main concern is still being able to attract talented athletes from around Oregon and on a national level. He'd like to look up some of his old contacts in the state who could put him in touch with prospective athletes and investigate opportunities for summertime employment for which his runners could qualify. "This could help our athletes support themselves through school," he said.

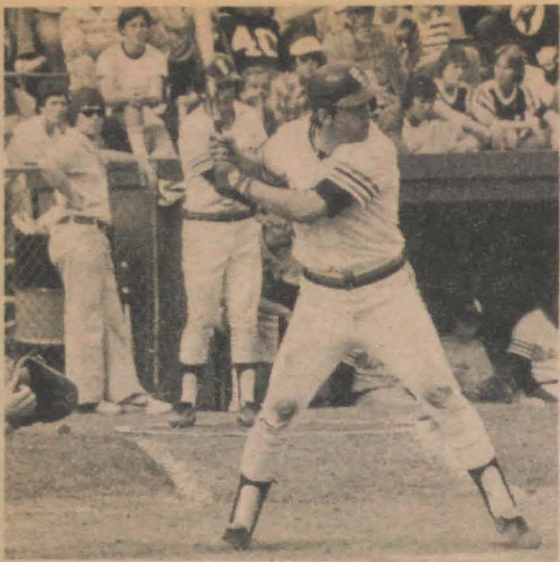
"I used to have a lot of friends in Oregon, but after 19 years in California you tend to lose touch," said Stephens. "I would sure welcome making contact with past track and field athletes of OSU. I'd like to put them on our information list and keep them informed on what we are doing. I'd also like to encourage their help in recognizing outstanding athletes in their areas and being involved in our present and future programs."

Oregon State women's track and field team had some winners in early competition.

In the OSU Preview Meet, Kitsy Hall won the javelin with a toss of 146-2, Anne Fischer won the high jump at 5-7, and Jean Melson was first in the shot put at 42-1 1/2. In the Salzman Relays at Pacific Lutheran in Tacoma, Melson won the discus, 136, and shot, 41-6, and Fischer won with a high jump of 5-4. The OSU 880 and 2-mile relay teams also won.

OSU finished second in the five-team OCE Invitational and second in the Oregon-California Track Invitational in which there were 14 teams entered.

Just prior to press time, OSU's women lost to Washington in a dual meet to Wayne Valley Field 76-48. Hall won the javelin with a season's best of 148.



Catcher Rich Harper takes his cut. (Mike Shields photo)

Baseball team up, then down in early season play

Jack Riley's young baseball team is currently on a roller coaster ride over the past month which saw the Beavers finish strongly on their southern spring trip as they defeated some highly touted opponents at the prestigious Riverside National Tournament only to return home and drop two of three games against Washington State in the weekend opener for Pac-8 Northern Division play.

After struggling through the early part of their spring trip the Beavers went on to shutout Washington State 2-0 behind Bob Flynn's three-hitter, then they dropped Valdosta State 4-2, the No. 1 ranked Division II team in the nation, and followed that with a 4-2 win over Cal-Riverside, the defending Division II national champions.

The Beavers then ran to wins over Southern Oregon and the University of Portland to stretch their win streak to five before meeting the Cougars.

In the Friday opener, the Beavers squandered an 8-1 lead only to lose 11-8 to Washington State in what Riley called the "bitterest way to lose a game." He felt that the Friday loss could perhaps set the tone for the rest of the Northern Division race as the Cougars were reeling from a five-game losing streak and were ripe for plucking.

But in the Saturday doubleheader, the Beavers bounced back as freshman pitching sensation Eric Sallee from Beaverton's Sunset High school downed the Cougars 2-1 for the opening win. Sallee with the win stretched his record to 4-0 on the year and lowered his earned run average to 1.64. Sallee, along with freshman first baseman Bob McNair have developed quickly for the Beavers as they both were named to the all-star

team at the Riverside tourney. In the second game of the doubleheader, the Beavers dropped a 4-2 decision to the Cougs and now must fight an uphill battle to get back on top of the Northern Division race.

The Beavers collected a win, a tie and a rainout at Washington in their second conference series of the season for a 2-2 Northern Division record.

The Beavers won a 4-3 decision before the second game of a doubleheader was rained out. Beaver Dave Simmons hit a sacrifice fly to score Dave Backen with the go-ahead run in the ninth. Reliever Pat Barry got the win.

The first game of the series, 0-0 for 10 innings, featured a no-hitter by UW's Rick Anderson and an excellent 5-hitter by OSU's freshman Eric Sallee.

Riley's crop of recruits has been paying off big dividends this season with Sallee and McNair the big additions. McNair went on a torrid hitting streak during the Riverside tourney which saw him hit .367 for the tourney and tie the tourney record for extra base hits with seven. He banged out four doubles, a triple and two home runs during the seven-game tournament.

The Beavers rebounded again after the opening conference losses to trounce Portland State 23-3. The win was sweet revenge for the Beavers after losing two earlier contests to the Vikings at the Fresno Tournament. In that win, OSU collected a school-record 22 hits and knocked in 21 runs off of four PSU pitchers.

Hicks national champion. . .

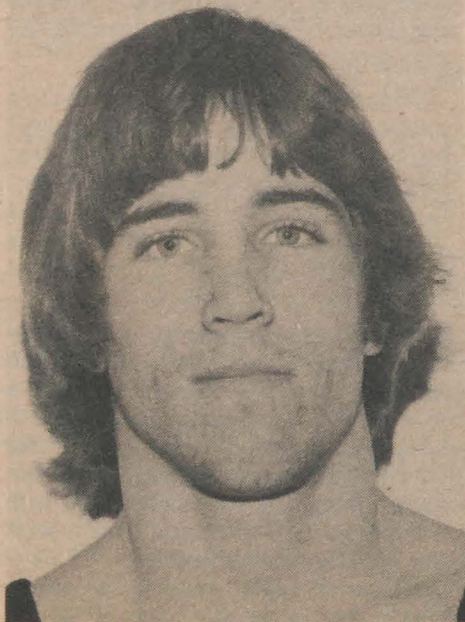
Wrestlers take 8th

Hampered by injuries, sickness and fatigue, Dale Thomas' wrestlers still muscled up enough to finish strong and claim an 8th place finish at the NCAA's as junior Dan Hicks became only the third Beaver wrestler to go through a season undefeated and the sixth OSU wrestler to win a national title.

Hicks finished the season 45-0-2 on the year to take the 142-pound crown while sophomore Howard Harris was the Beavers' only other placer as he finished fifth at the nationals. Harris, who gained All-American honors with his medal, finished the season with a 45-7 season record. Only four-time All-American Larry Bielenberg has won more matches than Hicks or Harris did this past season as he won 51 his senior year last season.

The Beavers left for the nationals shorthanded as junior All-American Dick Knorr did not wrestle at the Pac-8 championships due to illness, which ended his season. Also senior Bob Hess, a runnerup at the conference finals, injured a knee just before leaving for the nationals so he was left home.

Senior All-American Pat Plourd (118) finished his career with some impressive statistics. Although he failed to place at the nationals, Plourd did win his second straight Pac-8 title and finished with a 42-3-1



Dan Hicks

Injuries cost points. . .

Spikers gain wins

Injuries, along with some other bad luck, hit the Oregon State University track and field squad pretty hard, but by the midway point of the season the Beavers could still boast a 3-3 dual meet record.

At this writing, Coach Steve Simmons' squad had lost dual tests to Arizona, San Jose State and Washington State -- all strong teams that rank among the nation's best.

On the other side of the ledger, Oregon State had outscored Utah, Idaho and Wyoming, and by huge scores. For example, the Beavers bombed Wyoming to the tune of 116-42. The Utah win was 86-58, and OSU pinned a 104-60 defeat on Idaho.

In the losses, the Beavers were beaten by Arizona, 85-67, and the San Jose State setback was 87-58. Washington State outscored the Beavers, 107½ to 51½.

Jumpers Smith, Okoro star

There has been some good news come out of the OSU camp, however. Bruce Smith and John Okoro have given the Beavers one of the best one-two punches on the Coast in the long jump. Both have been over the 25-foot level and conceivably could do even better. Smith, a fine athlete, took time off from the long jump against Wyoming, and went out and won the 100 meters race and was anchor man on the winning 400 meter relay.

One of the best prospects, when healthy, is Kasheef Hassan from the Sudan. The 400 meter ace has run his specialty in 46.4, but his best time this year is 46.6. He looked mighty good until he came down with a pulled hamstring muscle in his leg against Washington State. He missed the Wyoming meet because of it.

Scott Fisher, who won the Pacific-8 conference pole vault two years ago but because of an injury red-shirted last year, has been vaulting just good enough to win. His career best mark is 17-½, but 16-6 is the best he has done this year.

Depth lacking for duals

There isn't much depth on the squad, as Simmons had admitted, but the Beavers could do better, probably, in a

The Beavers downed the Washington Huskies 91-72 in a rain-soaked meet at Wayne Valley Field just prior to press time. It was the third-straight meet victory for the Coach Steve Simmons' team and the first for the Beavers against Pac-8 competition since 1975.

OSU set three meet records, topped by a 1:49.87 800 meters for Kasheef Hassan, outstanding freshman from Sudan. Sophomore Andrew Fields led a Beaver sweep in the intermediate hurdles in 52.44 and senior Gary Barnes ran a 47.9 400.

season record. His four-year career marks stands at 124-32-6, the third winningest wrestler in Oregon State history behind Bielenberg's 168 win total and Greg Strobel's 126 wins.

It was a season that saw the Beavers reel off 18 straight wins during the middle of the schedule and also saw them tie their own NCAA mark for wins in a dual meet season with 28, set a year ago. At the end of the dual meet season, OSU was ranked 5th in the nation with their 28-4 record. There was a Portland State Invitational Tourney championship, a third straight Pac-8 championship (their 11th in the past 14 years), six individual conference champions and finally the NCAA showing.

The eighth place finish at the nationals gives the Beavers an impressive mark on the national scene. They have placed among the top eight in nine of the last 10 years and during the span, Thomas has coached 35 All-Americans that have placed nationally.

meet such as the PAC-8 or the El Paso Invitational where they are entered. Bill Delatorre, Jake Groth and Rick Kumm appear to be the best of the distance runners, and looked good in the Wyoming meet. Delatorre posted a 3:48.24 clocking in the 1500 meters.

Oregon State has a scarcity of weights men, and it has hurt the overall situation. Discus thrower Tim Fox, best on the squad, wrecked a leg early in the schedule and there was some doubt whether he will be able to compete the rest of the season. Tom Schillinger, the footballer, has been OSU's best discus thrower with a mark of 178-7. Fox was 188-½ before he got hurt.

Simmons is hopeful they can look much better down the stretch drive, and the return to action by some of the cripples could make things respectable.



Bill Delatorre gets congratulations from assistant Coach Dean Clark after a 1500 meter win.

Golfers take major title

It isn't every day that Oregon State's golf team wins a major tournament championship.

But the Beavers did just that recently at Santa Barbara, California, when they brought home the championship trophy of the Pacific Coast Intercollegiate Invitational tournament.

OSU did have an assist from the rain. The competing schools such as UCLA, Cal Northridge, Sacramento State, Santa Clara, St. Marys and others just didn't shoot as well as the Beavers in the first 18 holes on Friday. Then the rains came, and the tourney was washed out for Saturday play. OSU officially was the team champion.

Squad has promise

Coach Jerry Weiler apparently has a squad with a lot of promise. Rob Gibbons of OSU was individual runner-up with a 74 score and teammate Mark Binegar was fourth with a 77. Other OSU players this year include Byron Patton, Charlie Clifford, Ron Hiller and Ron Berg.

In the Western Intercollegiate tournament earlier at Santa Cruz, Oregon State just missed the cut by a single stroke. Gibbons led OSU with a 76-75 -- 151.

The Pacific-8 conference tournament this year will be held in Los Angeles, on May 1 and May 2.

Beaver Caravan dates scheduled

Oregon State football and basketball coaches and other athletic department personnel will be involved in Beaver Caravan dates and other dates of interest this spring.

On Friday, May 5 there will be a Beaver Caravan stop at Lebanon. There will be golf at Pine Way Golf Course and dinner that evening at Pine Way. The Lebanon host is Ben Gerry of Ben Gerry Insurance. Call Ben Gerry at 258-3147.

Friday, May 12 is the annual Beaver Club golf tournament at Corvallis Country Club and Spring Hill Country Club. Contact Jim Rudd at Beaver Club office (754-2370) if you haven't received advance information.

Saturday, May 13 will be the annual spring football Picnic Bowl game, starting at 1:00 p.m. at Parker Stadium.

Monday, May 15 is the annual Lane 30 Staters spring sports golf and dinner banquet at Shadow Hills Country Club. Ray Walter is president of Eugene 30 Staters.

On Thursday, May 25, the Beaver Caravan will make a stop at St. Helens for golf and dinner at St. Helens Golf Club. Dr. Carl Howarth (397-0711) is the chairman of the St. Helens Beaver Caravan stop.

Other Beaver Caravan stops this summer will be listed in the next issue of the OREGON STATER.

Crew rows in top regattas

It has been a "respectable" season for Oregon State's crew that travels far and yonder to its rowing sites.

The Beavers were invited to one of the best known regattas in the country -- the San Diego Classic -- and finished fifth in both the heavyweight-8 and the lightweight-8 races. It was an extremely strong field that included such "name" teams in crew as Wisconsin, Cornell, Pennsylvania, Brown, Washington, California, Harvard, San Diego State, British Columbia, Long Beach State.

Earlier in the season, Oregon State rowed against British Columbia, an always-tough opponent. In the heavyweight-8 race, OSU rowed the 2000 meter course in 6:56.8, 26 seconds slower than they rowed the same race in practice the week before. UBC won by 25.2 seconds.

In recent races at Redwood Shores, California, the Beavers made an impressive showing. They won the varsity-8 and freshman races, ahead of USC and Stanford, and placed second to Santa Clara in the varsity lightweight race. The varsity-8 set a new course record of 6:10.0.

Spring football starts

A total of 38 lettermen, six junior college transfers and four of Oregon State's prize freshman recruits were numbered among the 80 candidates that reported for the start of spring football practice on April 12.

The Beavers will conclude spring drills on Saturday, May 13 with the annual Picnic Bowl intrasquad scrimmage at Parker Stadium, starting at 1:00 p.m. Spring football drills are conducted Tuesday, Wednesday, Thursday and Saturday each week.

The six JC transfers included James Scruggs, 6-1, 190, split end from Arizona Western College; Steve Smith, 6-1, 190, quarterback from Los Angeles Harbor College; John Misko, 6-5, 206, punter-safety from Porterville JC; Iris Hawkins, 6-4, 218, tight end-defensive end from Los Angeles City College; Dean Anderson, 6-7, 250, defensive tackle from Spokane Falls Community College and Tim Smith, 6-2, 188, cornerback from Santa Ana JC.

Recent prep grads included

The prep athletes reporting to spring drills as a result of their early graduation from high school included Jeff Brewer, 6-5, 260, defensive tackle from Bend; Mel Coons, 6-4, 255, offensive guard from Wasilla, Alaska; Reggie Doby, 6-1/2, 240, middle linebacker from Pomona, Calif., and Eric Pettigrew, 6-6, 260, offensive tackle from La Puente, Calif.

Rebuilding the Beavers' offensive line was coach Craig Fertig's main priority at the start of spring drills as OSU lost four offensive line starters via graduation, tackles Gordy Neumann and Vern Ward, guard Larry Winkler and center Jim Walker.

Only guard Kevin Donaghue (out of spring practice as a result of a foot operation) and tight end Chris Smith return from last year's starting offensive line. Reserve lettermen Brian Stack



Craig Spiegelberg

(guard) and Gregg McDonald (center) return as does Craig Spiegelberg, a starting tackle before a knee injury sidelined him after the season opener with Syracuse last year.

Offensive backs, receivers return

OSU's offensive line this fall will probably have several sophomores in the starting unit and these will come from Doug Johnston, 6-5, 248; Matt Reinhard, 6-3, 238; Brad Sorem, 6-2, 255; Darren Coutts, 6-5, 235; and Rich Humphreys, 6-6, 245, plus the two freshmen, Coons and Pettigrew, who are already out for spring ball.

The Beavers' entire corps of skill people return on offense with Steve Coury, Karl Halberg and Dwayne Hall at the wide receivers; James Fields, OSU's leading ball carrier the past two years, and Willie Johnson at running backs and John Norman at quarterback.

1978 FOOTBALL

All Home Games — Parker Stadium

Sept. 9	BRIGHAM YOUNG AT CORVALLIS	6:00 PDT
Sept. 16	Arizona at Tucson	7:30 MST
Sept. 23	Tennessee at Knoxville	7:30 EDT
Sept. 30	WASHINGTON AT CORVALLIS	6:00 PDT
Oct. 7	Minnesota at Bloomington	1:30 CDT
Oct. 14	Bye	
Oct. 21	USC at Los Angeles	1:30 PDT
Oct. 28	Stanford at Palo Alto	1:30 PDT
Nov. 4	Washington State at Pullman	1:00 PST
Nov. 11	UCLA AT CORVALLIS	1:30 PST
Nov. 18	ARIZONA STATE AT CORVALLIS	1:30 PST
Nov. 25	OREGON AT CORVALLIS	1:30 PST

San Francisco area. And Aune has continued the tradition. Obviously, it's more than the important matter of professional competency. Aune talked about his philosophy and approach.

"We want to be as objective as we can be. We want to present the excitement. We want to praise a play or a player of the opposing team when such praise is warranted. But in the same light as I say this, I don't think we're fooling anybody nor do we try to fool anybody into believing that old school approach of maybe 20 years ago that said when you go on the air you are completely objective. We don't try to kid ourselves or the listeners. I root for Oregon State. Now, we try not to root for Oregon State on the air, but I want Oregon State to win and, if Oregon State doesn't win, I'm sad. And if Oregon State does win, I'm very happy, just like most of our listeners. And I think you have to get emotionally tied up in it. It's not just a job.

"We don't want to be 'homers,' certainly not to the degree that we make up all kinds of excuses or outs for the team. We want to tell it like it is. If they are not playing well, we're going to say they're not playing well. Conversely, if they are playing well, then we certainly are going to praise them."

Aune obviously likes his profession very much and one thing he enjoys in particular is getting to know many of the collegiate athletes. Along the same line, a major disappointment is that there are so many football players that it is impossible to get to know many of them well even though he usually travels with the team and always stays at the same hotel on the road.

With the new Pac-10 and the promising Beaver football and basketball, Aune is looking ahead to much more excitement as the "Voice of the Beavers."

OREGON STATER, April 1978, Page 19

Aune awaits Pac-10

The "Voice of the Beavers" is ready to talk.

Last month, the Men's Board of Intercollegiate Athletics renewed its football and basketball broadcast contract with radio KEX of Portland for the next three years. That means that Darrell Aune this fall will be starting his ninth year of play-by-play for the Beaver network that last year had 26 stations throughout the Northwest for football and 11 for basketball.

"I'm really looking forward to the coming years with the Beavers," Aune said. "Craig Fertig has a very good football program developing and one that includes some very exciting players. And that young basketball team of Ralph Miller's could be one of the top teams for the next couple of years."

Another reason Aune is particularly pleased with the renewal is that he will have an opportunity to help initiate the Pac-10 as the conference adds Arizona and Arizona State.

"I like the idea of the Pac-10," he stated. "Both schools-Arizona and Arizona State-are going to be competitive in the Pac-10. They are going to add to it. I like Tucson. I like Phoenix. It will be enjoyable to go there for games."

"One thing I really like is that now in basketball we're going to play 18 conference games next year. The non-conference season is interesting, but

you're just marking time. We've always waited for the Far West Classic because it is an excellent tournament and it has marked the start of the counting season. And in football there will be another conference game. The conference play is where it's at."

Looking ahead also marked a time for looking back for Aune. For example, he has broadcast more than 220 Beaver basketball games from all over the country and has run into some difficult broadcast situations along the way. But he didn't have to look far for the worst in his opinion.

"The worst spot in the world to broadcast a college basketball game is McArthur Court in Eugene," he declared. "This is because of the noise level and because it is a very confining situation. You're in the first row of the balcony with the crowd right up on top of you. We have not had the problem of anyone yelling obscenities or anything like that. But the noise level is so intense at Mac Court that it is very hard to concentrate. You'll find yourself in the middle of a sentence and, because you cannot hear yourself at all through the ear phones, you might be distracted and start talking about something else.

For top football facilities, he has seen nothing better than offered at OSU's own Parker Stadium where the booth is about the right height and angle and has plenty of room.

On the negative side for football broadcasting facilities and football trips, for that matter, Aune would like to forget Syracuse.

"Actually, the worst place to broadcast football probably is the huge Memorial Coliseum in Los Angeles because you're about 10 miles from the field. But for non-conference, it's Syracuse. Their structure was built in 1604 or whenever. You get the feeling sitting in the booth that the rats are going to come right out of the wall at any time. It's all old wood. When I got home I counted something like 14 slivers in my trousers.

"And those two trips to Syracuse, with Dee Andros' '74 team and again with Fertig's first team, had to be the worst. It wasn't just a case of losing games, but the schedule we went through. We were flying all day, more than 10 hours, as I recall. We got there at night and it was up



Darrell Aune, into 9th year

ALUMNI BOOK CLUB



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GOD MAN and the PLANETARY AGE

Nicholas J. Yonker

"To speak of man in a Planetary Age gives a touch of grandeur to the human drama . . . Unfortunately, just as we head for some of these major crises (pollution, population, energy, etc.) concerning our species as a whole, we find that our spiritual resources for meeting the challenges are at their lowest ebb . . .

"I shall propose a symbol of psychological balance which draws upon the major religions and cultural traditions of mankind and focuses them in a way that may help to provide a rallying point for the development of a global, theologically grounded Humanism. It is a symbol for a planetary perspective that hopefully can be of assistance in our present crisis of values."

Nicholas Yonker sees the Planetary Age we live in providing new challenges and opportunities, and calling for a transcendence of cultural and religious parochialism. Yonker's symbol, The Integrator, summarizes this transcendence.

Among the intellectual challenges he feels two are dominant. The first is that human beings are the product of lengthy evolution. The second is that we live in an era of world cultural convergence.

Yonker's response to these challenges is a theistic humanism—a "third path" between traditional theists and humanists, which is developing as traditions converge in the Planetary Age. **God, Man and the Planetary Age** uses the past to take a hopeful view of the future: "Our aim should be to maximize the richness of experience."

Yonker's thesis will appeal to the general reader, with special interest for students of religion, philosophy, history, and the many facets of humanism.

About the author: Nicholas Yonker is a Professor in the Department of Religious Studies, Oregon State University.

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Calendar of Events

APRIL 1978

- 28-29 Biology Colloquium
- 29 Future Farmers of America Field Day, Cordley
- 29 Women's tennis: Pacific Lutheran, 11 a.m.
- 29 Baseball: Washington, Coleman Field, 1 p.m.* (doubleheader)
- 29 Women's track: Oregon, Wayne Valley Field, 12:15 p.m.*
- 30 Early American Music, OSU Choir, First Christian Church, 4 p.m.
- 30 Senior recital: Gloria Michels, soprano, Milam Aud., 8 p.m.

MAY

- 1-20 Fairbanks Art Exhibit, Design Students
- 1 Baseball: OCE, Coleman Field, 3 p.m.*
- 2-4 You and Your Aging Parents Workshop, MU 104
- 2 Speaker: Clara Collette-Pratt, "You and Your Aging Parent: Problems and Prospects," Milam Aud., 7:30 p.m.
- 3 Women's Softball: Portland State, Pioneer Park, 3 p.m.
- 4 Film: "Mexico -- The Frozen Revolution," Milam Aud., 7 p.m.
- 5-6 Mom's Weekend
- 6 Exhibition Crew Races, Willamette River, 11 a.m.
- 6 Football scrimmage, Parker Stadium, 11 a.m.
- 6 Friends of Chamber Music: Amadeus Quartet, Milam Aud., 8 p.m.**
- 7 Film: "Looking Backwards," Horner Museum, 3 p.m.*
- 7 Concert: Gwen Leonard, James Cook, David Eiseman and Barnard Gilmore, Milam Aud., 8 p.m.
- 8 Speaker: Jan M. Newton, "Studies in Rural Oregon Communities," Center for Women Studies, 3:30 p.m.
- 10 Baseball: Puget Sound, Coleman Field, 3 p.m.*
- 11 Speaker: Harry Edwards, "Inequality and Race," Wilk. Aud., 7:30 p.m.
- 11 Speaker: Solly Dreaman, "Sex Stereotypes," Milam Aud., 8 p.m.
- 12 Baseball: Oregon, Coleman Field, 3 p.m.*

- 13 Beef Day, Wilk. Aud.
- 13 Spring Football Game, intrasquad, Parker Stadium, 1 p.m.
- 13 International Variety Show, Milam Aud., 8 p.m.*
- 14 Student Honors Recitals, Milam Aud., 8 p.m.
- 15 Poetry Reading, Madeline Defres, MU East Forum, 8 p.m.
- 17 College Concert Band Festival, GC, 8 p.m.
- 18 SONOS, New Music Concert, MU 105, 8 p.m.
- 19-20 Pacific-8 Championship Track, Wayne Valley Track*
- 21 OSU Choir, European/Russian Concert Tour Program, First Presbyterian Church, 7:30 p.m.
- 22 Fairbanks Art Exhibit, Student June 6 Show
- 23 ROTC Tri-Service Review, Parker Stadium, 12:30 p.m.
- 24-27 OSU Theatre: "Uncle Vanya," MitP, 8:15 p.m.*
- 25 Track: Staters Hi-Lites, Wayne Valley Track, 4:30 p.m.*
- 25 OSU Symphonic Band, MUL, 8 p.m.
- 26 OSU Concert Band, MUL, 12:30 p.m.
- 30 Jazz Band #2, MUL, 12:30 p.m.
- 31 Jazz Band #1, MUL, 12:30 p.m.
- 31 OSU-Corvallis Symphony, MUL, 8 p.m.

JUNE

- 4 Commencement, GC, 2 p.m.
- 5-9 Finals Week
- 9-10 Class Reunions: 1918, 1923, 1928, 1933, Golden Jubilee
- 12-16 Managing Young Forests in the Douglas-Fir Region, Peavy
- 12-16 4-H Summer School
- 15-16 National Conf., Inservice Physical Education and Public Law #94-142, Wilk. Aud.
- 19 Summer Term Registration, GC, 8:30 a.m.-3:30 p.m.

*Admission charged.
**Admission by season membership only. Student ID cards admit OSU students to Corvallis-OSU Music Assn., Friends of Chamber Music and to athletic events.
+ Estimated attendance.

FRL — Forest Research Laboratory, GC — Gill Coliseum, MHP — Mitchell Playhouse, MU — Memorial Union, MUBR — Memorial Union Ballroom, MUL — Memorial Union Lounge, MUE — Memorial Union East, PA — Peavy Auditorium, WB — Women's Building, Withy — Withycombe, Wilk — Wilkinson, Wieg — Wiegand.

GRAHAM DINNER PLANNED

As has been reported here, C. H. "Scram" Graham is retiring June 30 after 17 years as OSU Director of Alumni Relations. A retirement dinner in honor of Scram and Jean is being planned. Details as follows:

Friday, May 12, 1978; No-host bar 6:30 p.m. -- Dinner 8 p.m.
Corvallis Elks Lodge, 447 N.W. Elks Dr.
Cost \$10 per person (Students \$9);
Reservation Deadline Friday, May 5

The OSU Development office is assisting. Make your check payable to OSU Foundation and mail to OSU Development Office, Admin. Services Bldg. 524, Oregon State University, Corvallis, OR 97331. For further information call 754-4218 or 754-2351.

Looking for a job?

CHEMICAL ENGINEER for process engineering position. Bachelor's in chemical engineering. Minimum 2 years experience in chemical or related industries. Process design and pilot plant work. Travel required. Location: Oregon. No. 4545.

ENERGY PLANNING SUPERVISOR. Direct development, refinement of systems and models for long-and short-range energy forecasting. Bachelor's degree and 5 years experience in energy planning, economics, engineering or related fields. Location: Oregon. No. 4734.

FOOD SCIENTIST-QUALITY CONTROL. Supervise microbiology program, grading done by lab workers. Supervise grading of frozen foods equal to USDA grades. Responsible for sanitation in the plant. Bachelor's in food science or microbiology. Experienced. Location: California. No. 4700

For further information on the above and other possibilities, contact Office of Careers -- Planning and Placement (address below). Include the position code number.

The Office of Careers publishes a weekly Employment Opportunities Listing. It is available to OSU students and alumni on the following schedule: March-August \$15; May-August \$10; and July-August \$5 (price doubled for non-OSU graduates).

The office also publishes a list of teaching positions, priced as above.

Office of Careers--Planning and Placement

c/o Doris Anderson

Administrative Services Bldg. B 008

Oregon State University

Corvallis, Ore. 97331

(Telephone 503 754-4085)