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Portland State University

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Who would believe that little green sprig with the yellowish flowers and waxy white berries which induces so much merriment during the holiday season is really a "tree thief"?

Yet, according to two PSU botanists, that's exactly what mistletoe is, a parasite that steals water, minerals and food materials from the plant that supports it.

Both Dr. Robert Tinnin, plant ecologist, and Dr. Clyde Calvin, plant anatomist, are quick to point out that dwarf mistletoe (of the genus Arceuthobium), the subject of their concern and study, is, however, different from the mistletoe used at Christmas in the Pacific Northwest (of the genus Phoradendron).

"The American mistletoe commonly grows on trees of little commercial importance such as the Oregon oak on which it causes limited damage, but the dwarf mistletoe grows on valuable timber trees, such as the Douglas fir, Ponderosa pine, western larch and hemlock and lodgepole pine, where it causes extensive damage."

Tree diseases such as dwarf mistletoe, root rots and heart rots cause "growth loss," growth that would have occurred if a disease was not present; mortality, trees that die because of disease; and cull, wood made unusable by disease.

The Pacific Northwest Forest and Range Experiment Station in Portland estimates that tree diseases reduce forest productivity annually in Oregon and Washington by over 400 million cubic feet, enough lumber to build over 200,000 average homes.

Dwarf mistletoe, the most significant cause of both growth loss and mortality, accounts annually in Oregon and Washington, for the loss of nearly 175 million cubic feet, the timber required to build 82,000 average homes.

The Forest and Range Experiment Station also points out that forests that have been infested by dwarf mistletoes become so decadent that they are undesirable to many species of wildlife, difficult and hazardous to hike through, unpleasant to look at and extremely susceptible to catastrophic fire.

The U.S. Forest Service further notes that excessive mortality in heavily infested forest stands may result in destructive soil erosion.

In its concern for the increasing demands being placed on the forests of the Pacific Northwest — Washington and Oregon — to provide wood, water, forage, wildlife and recreation for a growing population, the U.S. Forest Service is looking for new research information to provide improved methods for controlling timber losses due to tree infections.

By coordinating their research efforts and working closely with Dr. Donald Knutson, plant pathologist, Forestry Sciences Laboratory, U.S. Forest Service in Corvallis, Drs. Calvin and Tinnin are hoping to help provide some of that information.

The botanists' research interests center around anatomy, range of distribution and host specificity of the mistletoe. Their work is (Continued on Page 7)
Portland State University has begun to cut back on administrative programs and staff in an effort to meet new budget reductions ordered by the State System of Higher Education when fall term enrollments and income failed to meet system-wide expectations.

The newly ordered cut amounts to about $175,000. It is in addition to some $750,000 which the University has already cut from this year's operating budget, and is the reason why President Gregory Wolfe gave the order to begin trimming service programs.

Wolfe was given authority by State Board of Higher Education members late in November to declare a "financial exigency" at the University. This is a necessary step to permit termination of employees under civil service or academic tenure regulations.

"Our primary concern as we make these reductions will be the maintenance of the quality and availability of the instructional programs of this University, for the welfare of our people and for the protection in which each — academic or classified — is entitled," Wolfe said in a memorandum to PSU employees.

Wolfe said the initial reductions will be in administrative services. The Placement Service is being abolished effective March 1, and action will be taken during coming weeks to combine the Office of Institutional Research and the Facilities Planning Office.

Wolfe said these "initial reductions" will result in the abolition of 12 administrative faculty and staff positions by March 1, and will account for about $75,000 of the $175,000 in additional savings needed to balance the PSU budget this year.

No teachers will be discharged as a result of these cutbacks, he emphasized.

The president added that "additional program reductions or redeployments will be announced as priorities are reached." Administration and members of advisory committees currently are at work on these problems.

Termination of the 18-year-old Placement Service, Wolfe said, will save money, help students find jobs after graduation, will save about $35,000 a year and reduce the administrative staff by six positions, Wolfe said.

The student employment service, which helps to find part-time jobs for students working their way through school, will not be affected by the cutback.

A placement clerk also will be retained after March 1 to maintain folders for students and alumni who wish their records made available to prospective career employers. The department also helps keep current PSU alumni records, and this capability also will be maintained.

One reason the Placement Service was the first to feel the budget axe is the belief that students in a downtown metropolitian university already enjoy excellent access to prospective employers, according to E. Anderson, vice president for university relations, which includes placement.

He noted that the State Employment Service Portland headquarters is only four blocks from the University, and many business, education, social service and governmental organizations maintain downtown employment offices.

The Portland Chamber of Commerce was advised of the budget action in advance, and its advice and assistance has been sought to help students and employers through the transition period, Anderson said.

Margaret Aguirre, 21-year-old Portland State University senior, and William Jenkins, dean of university's FACES Placement Service, receive a $1,000 teaching incentive award, designed to attract talented and understanding minority educators who will work in disadvantaged communities, to a 21-year-old Portland State University senior.

Winner of the Carnation scholarship is Margarita Aguirre, who came to Oregon with her family in 1967 from Edinburg, Tex.

The Aguirre family settled in the Forest Grove area where the parents and children picked strawberries and cucumbers and worked in canneries while they gained a foothold in their adopted state.

The family owns a ten-acre farm near Gaston where they grow oats; wheat and cucumbers. Mr. Aguirre also works as a welder in Portland and Mrs. Aguirre, as a clerk in a store in Cornelius.

Margarita is the first member of the family to enter a college or university. A 20-year-old brother now attends the University of Oregon and a younger brother and sister are at home.

Margarita completed her high school education at Forest Grove before entering Portland State. Every summer she has worked on the family farm or in canneries in the area to finance her college education.

She had planned to stay out of school this year because of a lack of funds. But along came the Carnation scholarship.

In addition to her studies Margarita also works as a secretary in Portland State's program of "Teaching English as a Second Language." That program is designed to prepare persons to teach English to speakers of other languages and dialects in the United States and abroad.

Margarita has been interested in teaching in a bi-lingual community since her earlier days in Texas where she joined the Future Teachers of America Club while attending Edinburg High School.

"I felt that being an elementary teacher would give me a chance to help all children, mainly those of minority groups," she said. "It would make me very happy to be able to help children."

Miss Aguirre currently is looking for a teaching job next year, and would most like to work in an area like Woodburn where there are bi-lingual programs in the schools.

Camera Donated By Link-Singer

The Link Division of the Singer Company has given one of its new low light level television cameras to Portland State University.

The $10,000 gift replaces a prototype model which Link had loaned the University for testing before the camera went on the market.

A Portland State physics team used the earlier model to track the Apollo 14 space craft on its moonflight and the ill-fated Russian space station. The team pioneered the use of a television camera to make a continuous tracking of materials released in space by the vehicles. Previously only frames shot by a still-camera were available.

Link's president, Raymond A. Long, said that Portland State was chosen to receive the gift because of its pioneering in research which can only be accomplished with a camera of extreme sensitivity. The Link camera (GPL-L3), one of the most sensitive available, can pick up images illuminated only by barely perceptible starlight.

Richard Sears, the physics researcher who headed up the PSU team, said the new camera will be used for a variety of research projects, including the tracking and determination of particle sizes and densities of liquid hydrogen, liquid oxygen and water that have been released in space.
Lee Brown
Director
Justice Unit

Dr. Lee P. Brown, director of the Portland State University law enforcement program, has been named chairman of one of twelve task forces established by the National Advisory Commission on Criminal Justice Standards and Goals.

Governor Russell W. Peterson of Delaware, chairman of the commission, appointed Brown chairman of the task force on education, training and manpower development. Brown spent a week in Washington last month at the organizational conference of the 22-member commission, set up by the U.S. attorney general to improve the criminal justice system in the United States.

Brown said about 10 persons from throughout the nation will be named to his task force. Its first mission, he said, will be to determine current availability and needs in the way of educating, training and developing manpower for law enforcement agencies, the courts and correction institutions.

This ad hoc committee has nine months to prepare a working blue print of standards for the commission which determined at planning sessions that there is a critical need for a set of national goals and standards in the operation of the criminal justice system.

The commission is funded by the Law Enforcement Assistance Administration of the U.S. Department of Justice. The task force structure will be formed by making LEAA grants to a variety of state agencies, universities, or other groups to serve an administrative and support vehicles.

Dr. Brown, who frequently speaks to students and community groups, recently outlined his idea of a "dream police force" for Lewis and Clark College students.

A responsive force, he said, would consist of men highly trained to deal with people on a one-to-one basis, with police no longer waging war, but attempting to solve the problems of the people in their precinct. Such reforms, he added, would cause a great deal of change in the attitude toward police, and therefore add to the general peace and safety of the populace.

Brown came to Portland State in 1968 after serving in the San Jose police department for eight years. He planned, developed and directed San Jose's first Police - Community Relations Unit.

Brown last summer was named a Danforth Associate, an honorarium established by the Danforth Foundation of St. Louis which focuses its philanthropic activities on two major areas - education and the city. The Foundation said that Brown was among 175 persons in U.S. colleges and universities to be recognized for excellence in teaching and concern for human values and the quality of the collegiate educational experience.

In addition to his duties at Portland State, Brown is a member of the Metropolitan Human Relations Commission, the Governor's Law Enforcement Council and CRAG's Law Enforcement Advisory Committee.

Fall Commencement Dated

The University's first fall commencement is scheduled for 8 p.m. Friday, December 17, and Donald D. Parker, dean of the School of Business Administration, will discuss "The Social Responsibility of Corporations."

KENNEY SCHOLARSHIP GOES TO SOPHOMORE

Larry Runk, a sophomore in the Law Enforcement Program (shown at left in accompanying photo with Director Lee Brown), was named the recipient of the Frank J. Kenney Memorial Scholarship for the 1971-72 school year.

The scholarship was made possible by Mrs. Kenney in memory of her husband, the long-time special agent in charge of the Portland office of the U.S. Secret Service. Prior to her marriage she was well known in the Northwest as Dorothy Lois Smith, a reporter for the Oregon Journal.

Runk has been in police work since 1968, serving the past year as a special investigator for Portland Public Schools. Married and the father of a two-year-old son, Runk is taking 15 hours of class work in addition to his 40-hour-a-week job.

WINTER CALENDAR

CABARET
Every Friday evening, 10 p.m., Viking Bar, Smith Memorial Center; programs include folk and rock music, mime, poetry and drama

COMMENCEMENT
December 17 - PSU's first Fall Term Commencement, 8 p.m., SMC Ballroom

MUSIC
Brown Bag Series: every Tuesday, Noon, 75 Old Main, different musical presentations, free
January 12 - Friends of Chamber Music Series, The Allegri String Quartet, 8:30 p.m., Old Main Auditorium
January 27 - Recital by Clarinetist Richard Borgen, 8 p.m. 75 Old Main
February 4, 5, 11, 15 - PSU Players and Music Department present Donizetti's opera "L'Elisir d'Amore" (The Elixir of Love), 8 p.m., Old Main Auditorium
February 17 - PSU Jazz Lab Band, 8 p.m., 75 Old Main
February 22 - Friends of Chamber Music Series, The Juilliard String Quartet, 8:30 p.m., Old Main Auditorium
February 24 - PSU Wind Ensemble, 8 p.m., 75 Old Main

SPORTS
Basketball
(H indicates home game, all at 8 p.m.)
December 11 - U of Calif., Davis - H
December 13 - Cali, State, Los Angeles - H
December 18 - U of Nevada, Las Vegas - H
December 22-23 - UBC - H
December 28 - C of Great Falls at Great Falls
December 30 - U of Montana at Missoula
January 6 - U of Portland, Coliseum
January 8 - Central Wash, State - H
January 14-15 - U of Alaska at Fairbanks
January 21-22 - Humboldt State - H
January 24 - Boise State - H
January 29 - U of Puget Sound at Tacoma
February 3 - U of Portland, Coliseum
February 5 - Seattle Pacific at Seattle
February 10 - St. Martin's College, 8:30 p.m.

Swimming
January 13 - U of Alaska, 4 p.m. - H
January 14-15 - South. Oregon College

THEATER
February 4-5-11-12 - "L'Elisir d'Amore," see Music
February 16-19-20-25-26-27 - PSU Players present "The Fantasticks," 8 p.m., Studio Playhouse, Old Main
January 10 through 15 - American College Regional Theater Festival, hosted by PSU, evening performances at 8:15 p.m. and matinees at 2:15 p.m., Old Main Auditorium
January 10 - Matinee, "The Physicists" by Durrenmatt presented by U of Puget Sound
January 10 - Evening, "The Misanthrope" by Moliere presented by PSU Players
January 11 - Evening, "He Who Gets Slapped" by Andreyev performed by U of Seattle
January 12 - Matinee, "Rosencrantz and Guildenstern are Dead" by Stoppard performed by WSU
January 13 - Evening, "Elektra" by Euripides presented by Eastern Washington State College
January 14 - Evening, "Marrat/Sade" by Weiss, Old Main College
January 15 - Evening, "A Man for All Seasons" by Bolt, Western Washington State College
The following play presented off PSU campus:
January 12 - Evening, "Citizen Tom Paine" by Foster, U of Portland performers, U of P

WHITE GALLERY
January 1 through 21, Paintings by Harold Sims, White Gallery, Smith Memorial Center
Yvonne Weber, author of this article, is a Ph.D. candidate in Environmental Sciences and Resource Biology at Portland State University. She is working under a grant from the U.S. National Science Foundation to study the effects of research workers on animal disease in Chicago. The title of her paper was "Blood Chemistry of Roosevelt Elk in Oregon."
ALUMNI TO MEET JANUARY 13

How Portland State alumni can and want to become involved in the affairs of the University will be the topic of the fourth in a series of alumni meetings scheduled this academic year. The meeting will be held at 5 p.m., Thursday, January 13, in Room 338 of Smith Memorial Center, and John Jenkins, PSU alumni relations director, urges all alumni to attend.

He said that ideas and input are needed from alumni so that programs and services can be planned that will be of value to PSU's large alumni community.

“There was a lot of indication in the three prior meetings that alumni leadership is ready to emerge,” Jenkins said. “The time to become involved actively in the affairs of the University is now.”

The session will be informally organized to allow for a free interchange of ideas, opinions and suggestions on how communication between PSU and its alumni can be improved. Coffee will be served, and parking space will be provided in the parking structure at 1724 S.W. Broadway.

ALUMNI NEWS

An article written by two Portland State graduates appears in the November issue of Instructor, an elementary education journal. Terrence R. Kramer (BS '81, MS '71) and David A. Krug (BS '88, MS '89) collaborated on the article entitled “Learning to Add.” Kramer is now a specialist in the education of the mentally retarded, Oregon State Board of Education. Krug is a doctoral candidate at the University of Washington.

Linen Karger ('71) walks the campus beat as the only female patrolman on the Portland State University Campus Safety and Security staff. Her responsibilities include assistance and information, overtime parking regulation and security of the buildings and parking structures.

William K. Burkett ('71) is now a student at Golden Gate Baptist Theological Seminary, Mill Valley, Calif., working toward a Master of Religious Education degree.

Scott W. Compton ('66) received an appointment in November as safety engineer at U.S. Steel's Pittsburg Works. Prior to his present position, Compton worked as a turn foreman in the rod mill and later as a senior industrial engineer for U.S. Steel.

Dr. James E. Hagen, Dean of Portland State University's College of Education, was named vice president of the Oregon Association of Colleges and Universities at its annual meeting in Seattle.

Two Portland State graduates recently received Department of the Army certificates for special performance on their duties. Samuel C. Brown ('69) received an “Outstanding Performance” citation for his work as a quality control engineer in the Production Assurance Division of the Office of the Project Manager, Night Vision, Fort Belvoir, Va. Charles A. Hasse ('82) received his certificate for “Special Act and Service” by authoring and presenting a technical paper enhancing the prestige of the U.S. Army Engineer Topographic Laboratories, Fort Belvoir.

Stephen E. Lawrence ('71) has been named assistant director of marketing for Tri-Met, the public transportation company in Portland, where his main responsibility is bus-passenger service.

Nina A. Moore ('70) recently joined the federal Internal Revenue Service in Portland as an IR Agent. After completing her basic training course in San Francisco, Mrs. Moore will be working in the Portland office.

Bonnie A. Hogan (MSW '70) and Clyde C. Ferguson (BS '66, MSW '70) have recently been employed as Social Workers by the Veterans Administration Hospital in Vancouver, Wash.

Raymond T. Miller ('66) has recently become a partner in the Portland-based firm of Dick W. Ebeling, Inc., Consulting Engineers. The firm's area covers the nine Western states.

Larry I. Martin ('82), a territory manager in Portland for Johnson & Johnson's Health Care Division, has been named grand award winner in the division's sales incentive contest. He received the award at a national marketing conference held in The Bahamas in November.

Yule Greetings Aid Scholarships

The annual Christmas Card Scholarship Program is now underway at Portland State.

The program has made it possible to provide tuition scholarships to many needy students over the past several years, according to Diane Hulen of the Financial Aid office.

The annual campaign is an outgrowth of an idea put forward by Frank Eaton, professor of German. It works this way:

Persons wishing to send Christmas greetings to Portland State friends may do it by sending a check to the Financial Aid Office. Then the donor's name is placed in The Bulletin and posted on a giant Christmas card to be displayed in the College of Arts and Sciences. The recipient gets the card along with the check.

Contributions, she added, are tax deductible, and cards should be sent to the Alumni Office.

Alumni Relations Director John Jenkins would like to organize PSU alumni far and near to provide that sort of help, "I would like to have someone to call on for a bit of friendly advice or just some friendly conversation."

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 Addresses Sought By Alumni Director

When visiting or moving to a new place — whether it be Hong Kong, Syracuse, Yucca Flat or East Portland — it would be helpful to have someone to call on for a bit of friendly advice or just some friendly conversation.

Alumni Relations Director John Jenkins would like to organize PSU alumni far and near to provide that sort of help, "I would like to have someone to call on for a bit of friendly advice or just some friendly conversation."

Another benefit would be realized by PSU President Wolfe and faculty members who may be traveling or attending meetings and would like to contact PSU alumni in other cities. Names and addresses would be kept on file in the Alumni Relations Office to make such contacts possible.

A note to John Jenkins, PSU Alumni Relations Director, P.O. Box 751, Portland, Oregon 97207, will indicate your willingness to be contacted by fellow alumni and faculty who appear in your area, and the information will be passed along via Perspective. Or call the Alumni Office — 229-4515 — if you are in the Portland area. Include your name, address and business and home phones.

The Alumni Office also would like to know more about Portland State's former students, their jobs, number of children, spouse's names and occupations and other interesting items. The Alumni Office will circulate the news and in this way, keep the family of PSU alumni in closer contact.

At left is a coupon from the brochure recently mailed to alumni outlining some programs and services they may wish to use at PSU. If the last issue of Perspective or the brochure were misplaced, mail this coupon to the Alumni Relations Office to sign up for programs, make contributions, or report on news events.

PSU Alumni Activities Program

Mail to: Alumni Relations Office Portland State University P.O. Box 751 Portland, Oregon 97207

Name ____________________________

City State Zip ____________________________

Soc. Sec. #: ____________________________

Telephone ____________________________

Degree ____________________________

Year ____________________________

I am enclosing my check (money order) for $__________ for the following activities, services and/or contributions:

☐ PSU Alumni ID Card — $1*
☐ PSU Family Swim Program — $17.50*
☐ PSU Swim/Gym Program — $7.50 (Couple, $15)*
☐ PSU Alumni Parking Permit — $4.50*

*Prices will be pro-rated after winter term.

☐ My contribution of $__________ is to be used for:

☐ Please contact me about a special contribution.

☐ Please send me information about the PSU Foundation.

☐ I can assist PSU candidates with career information and employment contacts.

Please make checks payable to Portland State University.
DWARF MISTLETOE ESCAPES NATURAL ENEMY

(Continued from Page 1)

supported by grants from the National Science Foundation and an award from the PSU Research and Publication Committee.

Tinnin explains that there are only a few natural enemies of dwarf mistletoe, none which seriously hinder the growth of the parasite populations.

Presently, the best-known method of man-made control is clear-cutting, the removal of all infected trees from an area, but this method, according to Dr. Knutson, is not always acceptable.

"The Forest Service isn't allowed to use the clear-cutting method either along scenic roadways or in our parks and picnic areas," he explains. "Additionally, in places where the soil is dry and infertile, if we were to remove all infected trees it would be very difficult to start another stand (of trees)."

Dr. Knutson dismisses chemical sprays as an effective control method. He is more interested and currently at work to develop a chemical other control methods that appear potentially promising but need further research: 1) natural biotic agents such as some fungi which kill dwarf mistletoe; and 2) a certain butterfly larvae that has been found that eats the mistletoe plant.

Other plant pathologists currently researching new methods of control include F. G. Hawksworth at the Rocky Mountain Forest and Range Experiment Station in Ft. Collins, Colo., and Dr. Richard Smith, Pacific Forest Research Center, Canadian Forestry Service in Victoria, B.C.

Because dwarf mistletoe is considered the most important disease problem in California forests, scientists also are at work at the University of California, the Pacific Southwest Forest and Range Experiment Station and the Forestry Science Laboratory, all in the Berkeley area.

Dr. Tinnin, Calvin and Knutson agree that research dealing with control methods other than clear-cutting is in very early stages of development.

Tinnin and Calvin are eager for the new Science II greenhouse to open so they can expand their own experimentation to include large numbers of host trees, both parasitized and unparasitized, under controlled environmental conditions. These greenhouse-grown plants will provide data with the materials required to allow accurate observations in their respective fields of research.
Tess, do turtles have teeth?

Tess Fegel is a PSU senior who tutors young children at Sellwood School. She also introduces them to the joys of nature in museum, forest and shore. She spends 40 hours a week with her special pupils, while carrying a full load of credit hours at Portland State.

One hundred forty other University students also give their time tutoring Portland area grade school children. Their fee: the response of a six-year old in better understanding her ABC's or numbers, or delighting in the antics of an upside down turtle. And no, Kim, turtles have gotten along without teeth for more than 150,000,000 years.

You are invited to share in the life of the university through gifts and participation in its programs. Gifts to the PSU Foundation are tax deductible and will assist Portland State in meeting its goals for the institution and community.