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Portland State perspective

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'LITTLE GREEN SPRIG' CAN BE A TREE THIEF

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)



Into the lab and under the mistletoe ran senior biology student Phyllis MacIntosh, only to be caught by Dr. Clyde Calvin (left) and Dr. Robert Tinnin.

UNIVERSITY FACES CUTS

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 protections to 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 decisions are reached." Administration and members of advisory committees currently are at work on these problems.

Termination of the 19-year-old Placement Service, which counsels students on careers and helps them to find jobs after graduation, will save about \$50,000 a year and reduced 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 has been responsible for 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 metropolitan university already enjoy excellent access to prospective employers, according to E. Dean 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.



Margarita Aguirre, 21-year-old Portland State University senior, and William Jenkins, dean of the School of Education, happily receive her \$1,000 scholarship from Hugh Gallagher, general manager for the Carnation Company in Portland (right). The company established the teaching incentive award to attract talented minority educators who will work in disadvantaged communities after graduation.

PSU Student Wins Carnation Award

The Carnation Company has given its \$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 now 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 TO DIRECT 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.

He said his 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 as 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.



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 Borgberg, 8 p.m. 75 Old Main

February 4, 5, 11, 12 - 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 - Calif. 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. - H

Swimming

January 13 - U of Alaska, 4 p.m. - H
January 14-15 - South. Oregon College
Decathlon at Ashland - All day
January 22-23-24 - PSU Invitation - All day - H

January 28 - Highline College at Seattle

January 29 - UBC at Vancouver

February 12 - OSU at Corvallis

Wrestling

(H indicates home match, all at 8 p.m.)

December 18 - Wash. Invitational at Seattle
January 5 - U of Washington at Seattle
January 7 - San Francisco State - H
January 13 - Mankato State (Minn.) - H
January 15 - U of Oregon - H
January 18-19 - Multnomah Athletic Club, there
January 25 - OSU - H
January 28 - U of Washington - H
January 29 - Fresno State - H
February 3 - Cal Poly - H
February 5 - Seattle Pacific - H
February 10 - U of California, 4 p.m. - H
February 12 - U of Oregon at Eugene

THEATER

February 4-5-11-12 - "L'Elisir d'Amore," see Music

February 18-19-20-25-26-27 - 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 Durenmat 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 Andrejev performed by U of Seattle

January 12 - Matinee, "Rosencrantz and Guildenstern are Dead" by Stoppard performed by WSU

January 13 - Evening, "Electra" by Euripides presented by Eastern Washington State College

January 14 - Evening, "Marat/Sade" by Weiss, Olympic College

January 15 - Evening, "A Man for All Seasons" by Bolt, Western Washington State College

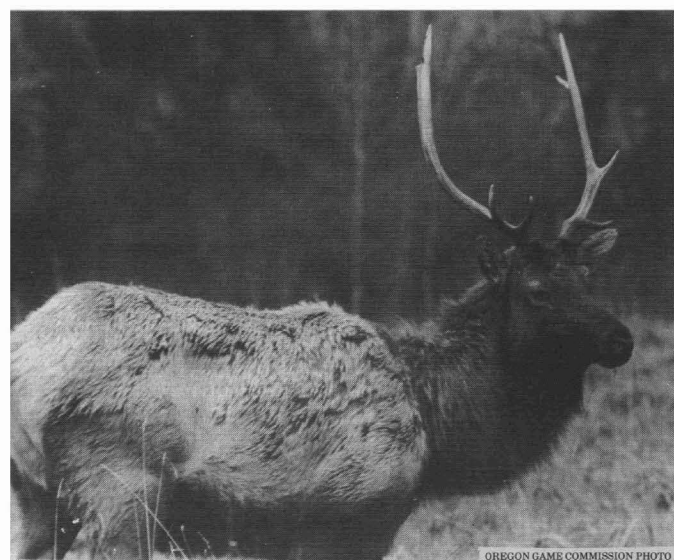
The following play presented off PSU campus:
January 12 - Evening, "Citizen Tom Paine" by Foster, U of Portland performers, U of P

WHITE GALLERY

January 1 through 21, Paintings by Harold Sims, White Gallery, Smith Memorial Center

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."



OREGON GAME COMMISSION PHOTO

By YVONNE B. WEBER

It was a clear, bright, beautiful morning in January, 1971, the kind of day to make a biologist like myself delighted she had designed a research project requiring frequent trips into the out-of-doors.

At the invitation of the Oregon State Game Commission, and with the cooperation of the Weyerhaeuser Company, across whose lands our trucks were traveling, I was on my way into the Millicoma elk management area in Coos County, Oregon. Accompanying me on this field trip were two laboratory technologists from the Oregon Zoology Research Center, coming along to give me lessons in locating the proper vein for drawing elk blood, preparing thin smear blood slides, and showing me other animal research techniques they had acquired in their daily work of helping care for the health of zoo animals.

Like many of the graduate students in biology who acquired their Master's Degrees at Portland State University with me, I had become increasingly concerned over the problem of wildlife conservation in our nation. Upon entering the new doctoral program in Environmental Sciences and Resources on our campus, I was encouraged to translate that concern into an effective research program.

As with many of our native wild animals, much remains to be learned about the physiology, hematology, nutritional needs, and diseases that afflict Roosevelt elk. This West Coast race of the animal the Indians called "wapiti" is found especially on the Olympic peninsula of Washington, where it was the subject of a Disney film; in northern California; in Clatsop County, Oregon, where the Jewell Meadows Elk Refuge has been es-

tablished for public viewing; and in Coos County, Oregon, where excess elk are trapped each winter for transplanting into other available habitats. Oregon's elk trapping program, in which hungry elk are baited into corral-like enclosures, presents an ideal opportunity for me to obtain various samples, including blood and parasites, as well as temperature, weight, age, and sex data from the elk being transplanted. Upon return to the Oregon Zoology Research Center, these samples are subjected to various analytical procedures and laboratory observations similar to what is done for a human patient receiving a complete physical examination.

Our reaction was puzzlement and disbelief when, on examining stained blood slides from two of the four elk from which we had obtained samples in one day's work, we observed a conformation of red blood cells called drepanocytes or "sickle cells," due to their unnatural crescent-moon shape. Neither the two technologists nor I had ever seen this phenomenon in any other than human patients. Correlated with the sickle-cell abnormality, these same two elk showed exceedingly low packed cell volume, or hematocrit, readings. Because slim, "sickled" red cells can be packed tightly together in larger numbers than cells in their normal bi-concave disc shape, this second measurement served as a verification of the first observation.

When I discussed these findings with Dr. Luigi Giacometti, Scientific Director of the Research Center, he asked if there was any hope that I could find those same two elk again. Alas, no, they had both been released back out into the wild, lost to the world of research forever! He called to my attention the fact that red cell sickling is a common abnormality of humans caused by an inherited genetic defect occurring in as high as 40 percent of some Negro populations. Severely afflicted individuals, of which there are estimated to be 50,000 in the U.S., die of this disease. In addition, nearly two million people in the U.S. have the milder form of the disease which may cause a variety of sub-lethal clinical manifestations, but may also cause sudden death in previously symptom-free adults. Could I have found in elk a parallel disease amenable to study? Strangely, sickled red blood cells were described in deer in 1840,

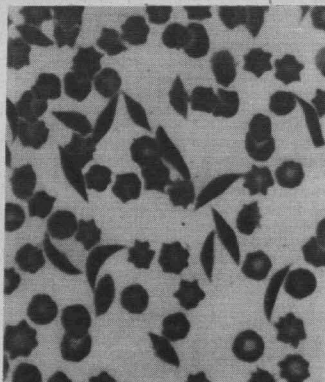
Ph. D. Student Probes Sickie Cells in Elk

long before the discovery of sickling in human blood.

Reading through the proceedings of the Western States Elk Conference, I found repeated cases of respiratory distress, physiologically poor response to stress, and even death, in elk treated with immobilizing drugs. Both *Lancet*, a British medical journal, and the *Journal of the American Medical Association* have published reports of unexplainable bleeding and sudden death in human patients undergoing routine surgery, due apparently to respiratory depression during surgical anesthesia. The humans were discovered to be genetic carriers of the sickle-cell trait who cannot tolerate unfavorable conditions of high altitude, severe infection, or rigorous athletic training, all conditions of stress. I believe the elk in those reports were suffering a comparable pathophysiology to that of their human counterparts. With scientists at the University of Oregon Medical School, investigation has been undertaken at the Zoology Center to study the pathology of red-cell sickling in the *Cervidae* family, to which elk and deer belong.

The major function of red blood cells is transporting oxygen-carrying hemoglobin molecules to various tissues of the body. Sickie cells are substantially less efficient in performing their oxygen-carrying role than normal red cells. In periods of stress, when the body's needs are high, no amount of increased breathing can make these malformed cells carry enough oxygen, and death may result. To make matters worse, sickled red cells become trapped in small capillaries, leading to blood clots, occluded circulation, pain, swelling, hemorrhage, and tissue death. There is no cure for the sickling phenomenon. Nothing, in fact, that substantially helps the carrier endure a crisis is known at this time.

Through the study of elk and other members of the deer family in which sickle cells have been found, we believe we can get information of value to the study of this disease in man. The Oregon Zoology Research Center, where this project is in progress, is by philosophy and design ideally suited for work of this nature. As was well stated by Oregon's governor at its dedication, "The Center will enable man to increase his knowledge of the biology of animals...so the health of both can benefit."



Crescent shapes in red blood cells show sickling from blood of eight-year-old cow elk.



Yvonne Weber studies slide of blood from Roosevelt Elk under Zeiss photomicroscope at Oregon Zoology Research Center. Blood showed sickling as seen in accompanying photo.

DISEASE TRACED TO ANCIENT AFRICA

Sickle-cell anemia is an inherited disease that goes back thousands of years in Africa and today, in the United States, primarily affects the Negro population.

Sickle-cell anemia is the result of a genetic mutation which reduces susceptibility to malaria. Another inherited ailment, called thalassemia, or Mediterranean anemia, in which red cells become thin, is found among Italians, Greeks, Syrians and Armenians, and their U.S.-born offspring. Thalassemia individuals also are less apt to die of malaria.

About one out of every eleven American Negroes are carriers of sickle-cell anemia, with about half abnormal S hemoglobin in their blood; about one out of every five hundred have the severe disease, with only S hemoglobin. One in four of the children of two S carriers will have the severe disease.

Medicine still has no cure for this inherited illness in which the normal spherical red blood cells are distorted into crescent-like (sickle) structures which then block the narrow capillaries. This deprives tissues of needed oxygen and causes severe pain. The disease, according to a recent report in *Time* Magazine, kills at least half its victims before the age of 20 and only a handful live beyond 40. Most are crippled long before death.

The *Time* article reported that a team of Michigan medical researchers has announced a promising discovery that offers new relief for sickle-cell sufferers. By treating the patient with a solution of urea and invert sugar, the researchers said, the sickling tendency may be reversed and painful crisis and possibly even death-dealing vascular obstruction can be averted.

This treatment now is being evaluated in several centers in the United States.

In the Portland area, the Albina Ministerial Association, currently is preparing a basic education program to distribute information among the Black population, pointing out that it is an inherited condition which evolved over the centuries, that it is nothing to be frightened about, or to be considered "a disgrace."

"We want to get funds to begin to do a real study of our people as has been done in other cities," said The Rev. John Jackson, pastor of Mt. Olivet Baptist Church. "The information has not sifted down to people who have sickle-cell. Many of the doctors don't deal with people who have it, and most hospital personnel are not acquainted with it. We need funds for people who don't normally have money to take blood tests, and after the tests we need money to provide them with treatment and counseling."

The next major event to provide funds for research in sickle-cell anemia will be the annual Ebony Fashion Fair scheduled for 7 p.m. Sunday, December 12, at the Thunderbird Motor Inn-Jantzen Beach. A no-host cocktail party will precede the show from 5 to 6:30 p.m. in the Nehalem Room. The affair is being sponsored by the Portland chapter of Links, Inc., a national Negro women's organization.

The People's Clinic, sponsored by the Black Panthers and staffed by volunteers such as geneticist Dr. Robert Bigley of the University of Oregon Medical School, has been working with the Multi Service Center and other counseling and medical facilities, all of which are cooperating with the Black community in setting up a program to inform and test Portland's Black population.

Friends Honor Jim Caughlan At Reception

Twenty five years of Vanport-Portland State history were recounted — replete with frequent, humorous, and to some extent apocryphal events in the career of Dr. James C. Caughlan — at an informal dinner in late October when sixty friends from the University community honored Portland State's newest Emeritus Professor.

Until this October 15, Dr. Caughlan was director of the University's Office of Institutional Research, a position he had held since July, 1962. In this post he directed studies involving PSU curriculum, staff, teaching loads, physical resources and student and community needs. The director is also the primary heir of the multitude of questionnaires regularly received at the University, asking for detailed information on every aspect of the institution.

He continues working as acting director until January 3, when his successor, Dr. W. Keith Evans, will arrive from the University of Michigan — Ann Arbor and will then assist the new director in a transition period during winter term.

A graduate of Willamette University, Dr. Caughlan received his M.A. in Education and Educational Administration from Columbia Teacher's College and his Ph.D. from Yale University. Prior to coming to Oregon he served as head of the Field Service in Child Growth and Development of the Massachusetts Department of Health. He taught at the Portland Extension Center from 1946 to 1951, when he was named acting assistant director.

In addition to serving as director of both the Portland Center and the Portland Summer Session, Dr. Caughlan also held the position of assistant dean of the General Extension Division from 1952 to 1961. Because of his long-standing interest in international education, he was also asked to serve as foreign student adviser. From 1953 to 1970, he was chairman of the Fulbright Regional Interviewing Committee, and for two years was chairman of the Fulbright State Scholarship Committee. He spent the year 1955-56 in Pakistan as a lecturer, working with the country's developing educational system.

Visitors in his PSU office have had the good fortune to observe a number of unusual objects d'art acquired during his Asian stay — in particular, a hookah or waterpipe, offers-to-rent which the owner has steadfastly turned down.

He moved from the Portland Center position to Portland State in 1961, being named director of Financial aids for the college.

Active in professional and civic organizations, Dr. Caughlan served on the executive committee of the Association of University Evening Colleges.

He also has been chairman of the Chamber of Commerce Education Committee; a board member and president of the Portland Community Council (UGN); a governor of the City Club, chairman of its 1968 Study Committee on Law Enforcement Practices in the City of Portland, and president of the Club's Research Foundation.

Aside from his professional accomplishments, "Doctor Jim" is also well-known about campus for his faithful participation in Dr. Mike Tichy's jogging program. His wife Roberta (a staff member of the Portland Libraries) and his many friends predict that, come "full retirement" on March 1st, he will still be very much on the run both in community affairs and on the track.

Yvonne Weber, author of this article, is a Ph.D. candidate in Environmental Sciences and Resources-Biology at Portland State. She is working under a grant from the National Wildlife Federation and recently reported on her elk studies at the Conference of Research Workers in 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 8 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 '61, MS '71) and David A. Krug (BS '68, MS '69) 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.

Linnea 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 ('68) received an appointment in November as safety engineer at U.S. Steel's Pittsburgh 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.

Two Portland State graduates recently received Department of the Army certificates for special performance of 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. Haase ('62) 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 '65, 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 L. Martin ('62), 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 under way 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 Hulén 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 published in *The Bulletin* and posted on a giant Christmas card to be displayed in Smith Center. The recipient gets the message, and a student may get some financial help, Mrs. Hulén said.

Contributions, she added, are tax deductible, and checks should be made out to Christmas Card Scholarship Fund and mailed to the Financial Aid Office, Portland State University, P.O. Box 751, Portland, Oregon, 97207.

Addresses Sought By Alumni Director

When visiting or moving to a new place — whether it be Hong Kong, Syracuse, Yucca Flats or East Portland — it would often 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 service. Today, people move frequently and a contact service could offer benefits in many areas. For instance, an alum in Denver, Colo., may help a fellow PSU'er select the most desirable area of town to buy a house, choose the proper school for his child or suggest a good place for dinner. The next year, he may be in Los Angeles where someone else could do the same for him.

"In order to do this, I have to know who's willing to help," says Jenkins. "Since *Perspective* goes to all alums whose addresses are on file, this is the best way to contact interested alums."

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 alums 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 alums and faculty who appear in your area, and the information will be passed along via *Perspective*. Or call the Alumni Office — 229-4615 — 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 alums in closer contact.

At left is a coupon from the brochure recently mailed to alums 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 _____

Address _____

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 injection designed to kill the parasite from within the host plant.

Looking toward a future "tree by tree" forestry concept, Dr. Knutson talks of two other control methods that appear potentially promising but need further research: 1.) natural biotic agents such as some fungi which



"Witches brooms," abnormally formed branches, or swelling of tree branches, are symptoms of an infested tree.

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 P.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.

Drs. 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 them with the materials required to allow accurate observations in their respective fields of research.

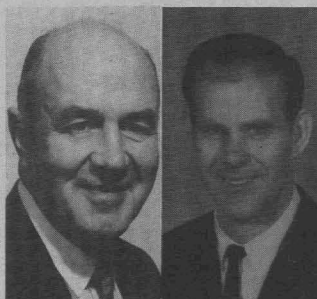
Changes Made in Athletic Posts; Westcott Steps Down as Coach

Dr. Howard E. "Doc" Westcott joined the Portland State athletic staff when the Vikings were the precocious new kids on the Park Blocks.

The year was 1952 and since then he has coached, encouraged and shoved PSU wrestlers and wrestling into the national limelight.

After 18 years as the school's wrestling coach, Westcott recently announced his retirement and friends honored his accomplishments at a testimonial dinner early this month. Although he is stepping down as wrestling coach, Westcott will remain on the teaching faculty.

The Westcott saga has its roots in the extension center days when Portland State was a two-year



Portland State's first athletic director, J. Neil (Skip) Stahley, (left), has resigned to go back to full-time teaching. He will be replaced by Donald B. Read, associate athletic director and head football coach.

a fifth-place finish in nine trips to the Pacific Coast Intercollegiate wrestling championship.

5. Two Olympians: Lee Allen (1956), Rick Sanders (1968).

6. A first, second, third and fourth-place finish in four attempts at the NCAA College Division crown, 1966-69.

7. A fifth, sixth and ninth-place finish in the last five years among NCAA major universities.

8. A career record of 162 wins, 52 losses and 8 ties, including 16 straight winning seasons.

He worked with many titlists in addition to Allen (member of the 1956 Olympic team, 1955 PCI champion) and Sanders (Olympic silver medalist, Pan American gold medalist, five national collegiate championships, two AAU titles, College Record 103-2)

Many Audiences Call On Forum Students

Law and order and government information gathering are the two topics the PSU Symposium-Forum students are finding most in demand this year from high schools and civic groups.

The Forum is comprised of 25 students who receive one credit per term in Speech 270 for presenting informative public discussions on timely issues. Last year the Forum spoke to 200 audiences numbering more than 25,000 persons.

The students appear before clubs, schools, churches and various civic organizations, mostly in the greater Portland area, but also throughout the state.

Because of a budget crush, the students pay their own transportation. Sometimes when greater distances are involved, according to Jean Monahan, director of forensics and the Symposium-Forums, host groups pay students' mileage.

This term an average of two groups a week are going out. If the Forum program can obtain more financial support in the future, Miss Monahan explains the students could fulfill many more requests.

The five basic topics this year are: 1.) Law and Order: Guardian or Gargoyles of American Rights? 2.) Government Information Gathering: Is Uncle Sam Watching You? 3.) Foreign Policy: Loophole for the Military Machine; 4.) Inflation and Unemployment: Albatross of John Doe? and 5.) Sex Education: Out of the Locker Room into the Classroom?

Each Forum program features one, two or three short speeches dealing with the various points of view involved. A period for audience questions is provided.

Upon request, Forum participants, who are freshmen through seniors majoring in political science, economics, history or speech, also conduct demonstration sessions in special areas of speech including debate, interpretation, impromptu, oratory, and extemporaneous speaking.

The Howard Westcott Scholarship is being created in honor of the man and to aid and assist the education of a deserving Portland State University wrestler.

Persons wishing to contribute to this athletic scholarship fund are asked to send donations, payable to Portland State University Foundation, to the PSU Athletic Department, P.O. Box 751, Portland, Ore., 97207. The purpose of the contribution should be clearly noted for the Howard Westcott Scholarship. Donations are tax deductible.

school. The official record dates from the 1955-56 season, following the establishment of Portland State as a four-year, degree-granting institution within the State System of Higher Education.

"Doc" is retiring as head wrestling coach with the following remarkable accomplishments:

1. NCAA College Division championship, 1967, runnerup, 1968.

2. Six Oregon Collegiate Conference titles in six years.

3. Eight NAIA District titles in nine years, one second.

4. Five second-place finishes and no worse than

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.

Portland State University
foundation

P.O. Box 243 • Portland, Oregon 97207 • 5