

*Focus on Forestry* is published quarterly by the Oregon State University College of Forestry. Our goal is to keep Forestry alumni and friends informed about the College of Forestry and its many activities and programs.

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# Focus ON Forestry

College of Forestry • Summer 2003

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## Dean's Column



**Dean Hal Salwasser**

OSU is nearing the end of a year-long strategic planning process and Natural Resources has emerged as one of the five themes around which the university will chart its future. Even in this time of State budget retrenchment, the Colleges of Forestry and Agricultural Sciences have taken the lead in developing growth initiatives. We cover some of these areas in this issue of *Focus on Forestry*.

Environmental marketing is an area that takes us to the heart of the economics of forest sustainability. We haven't yet seen where this will settle out, but Professor Eric Hansen is on point, keeping tabs on the industry.

Also, forestry faculty are active in three areas of concern to managing federal forests: 1) how to manage stocking levels to reduce vulnerabilities to drought stress, insects, and wildfire; 2) what to do in the aftermath of wildfires to encourage desirable stand recovery; and 3) how to thin young and middle-aged forests aggressively enough to stimulate the development of structurally diverse older forests.

Our new Hinkle Creek project will test current forest practice rules and new harvesting and road technologies. Current rules are based on knowledge from technologies that were in place 20-30 years ago. It's a much different world today, with better engineering and light-on-the-land technologies. **(See [Forest Engineering](#) for related story.)**

As we move into the future, the College of Forestry continues to step provide strong scientific leadership in forestry practices locally, regionally, nat and internationally.



### Dean's Awards

Each year, the Dean presents awards to faculty and staff who have made significant contributions to the success of the College of Forestry. Congratulations to all the recipients of the 2002 Dean's Awards.

**Carol Carlson** of College Forests received a Service award in recognition of her exemplary service to the College, OSU, and the City of Corvallis. **Steve Tesch** of Forest Engineering was given a Service award for his tireless and productive efforts on behalf of faculty, staff, students, and the College. The Projects and Maintenance Crew team award was given jointly to **Rand Sether, David La Fever,** and **Jerry Sills** in recognition of outstanding sustained efforts to improve and repair facilities and equipment in the College. **Debbie Bird** of the Dean's Office was given the Advising and Mentoring award in recognition of her exceptional skills in that area. The award for Research was bestowed on **Mark Harmon** of Forest Science, in recognition of a high level of sustained achievement in research. **Mike Bondi**, Forest Science and Extension Forester for Clackamas County, received the Extended and Continuing Education award for outstanding accomplishments and innovation in extension education. **Brad Withrow-Robinson, Viviane Simon-Brown, Scott Reed,** and **Molly Engle** won the Team Award for "Seeing the Forest: Art about Forests & Forestry" for successfully engaging the public in dialogue about forests and forest issues. The Support Staff award was given to **Rayetta Beall** of Forest Engineering for exceptional service provided to faculty, students, and constituents. **Markus Weiler** of Forest Engineering received the Faculty Research Associate award in recognition of exemplary work in virtual experiments, visualization, and preferential flow modeling.

### ACE Critique & Awards

College of Forestry faculty and staff recently took top honors in the annual Critique & Awards competition sponsored by the Agricultural Communicators in Education – an international association of communicators and information technologists in agriculture, natural resources, and human sciences. The 2003 ACE competition included 469 submissions from around the world in a variety of print and non-print media categories.

**Bruce Shindler** of Forest Resources and the entire **Forestry Media Center staff** not only received a Gold Award for "Developing Natural Resource Communication Skills Through Student-Produced Digital Videos" in the Instructional Design category, they also received the "Best of the Best" award for Outstanding Professional Skill among all the Gold Award winners. This project documents the

important educational role of student videos produced in Shindler's "Natural Resource Communications" class.

**David Zahler** and **Ed Jensen** received a bronze award for their OFRI-funded "Forests in Oregon" poster, copies of which are available to K-12 schools through the FMC and OFRI.

## Ethics Integrity Award

**Steve Radosevich** was one of three awarded the 2003 Ethics Integrity Award at a reception on Thursday, May 29, 2003. This award was presented by the Program for Ethics, Science, and the Environment and the Faculty for Peace & Justice group. The award is presented annually to members of the campus community who have exemplified "ethical vision and courage" and have helped raise ethical awareness on campus.



**Marty Roberts and Amy Eckert**

## Top Bananas – The Sequel

Once again, the **College of Forestry** came in first in the annual OSU Food Drive, donating \$7,000 (or 45,000 pounds of food) to Linn-Benton Food Share. College faculty, staff, and students increased their contributions over last-year's award-winning effort, raising more money than any other unit on campus for this worthy cause. For the next year, the College will share two awards – the highly prized Top Banana Trophy and the Golden Bowl – as well as the satisfaction of knowing that our Forestry community came together to help our local community.

## The Honor Society of Phi Kappa Phi

Phi Kappa Phi is the nation's oldest and largest all-discipline honor society. The Society's mission is "to recognize and promote academic excellence in all fields of higher education and to engage the community of scholars in service to others." Outstanding students from across campus are nominated by the faculty for membership in Phi Kappa Phi.

The College of Forestry proudly congratulates the following members, who are participating in the 2003 Commencement: **Paul Wesly Betts, Sean Christopher Comstock, Joshua Owen Heacock, Sarah Rebecca Hirte, Zachary T. Piepmeyer, Eric Andrew Schroff, Jill Amber Smouse, Ernesto Rudolfo Wagner**

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# Wood Science & Engineering

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Environmental marketing of forest products is a relatively unexplored topic that is receiving increasing attention, says Eric Hansen of the Department of Wood Science & Engineering (WS&E). As one aspect of diverse and far-reaching efforts by WS&E faculty is to explore the many facets of forest products marketing, Hansen and his research team are working with the College's Sustainable Forestry Partnership and Colleagues around the globe to study this timely issue. Hansen has taken a leadership role in exploring environmental marketing locally, regionally, and internationally.



**Eric Hansen**



**Roy Anderson**

One of Hansen's goals is to help forest products companies learn how to gain a competitive advantage in the marketplace by capitalizing on their environmental performance. Through extensive education and outreach, he and his team have been helping forest products companies to understand the potential for environmental marketing and assist them in properly implementing strategies to accomplish their goals.

## Qualifying the producers

Much of the focus on environmental marketing in recent years has come from a global trend toward forest certification. Hansen's team has been studying what motivates companies to become certified and the resulting impacts.

Forest certification has been largely driven by an attempt to address concerns expressed by environmental groups, and has spawned its own set of controversies over conflicting ideas about standards. Hansen says there is a considerable need to make available an unbiased perspective. To begin to fill this need, Hansen, Rick Fletcher of the College of Forestry, and Mark Rickenbach of the University of Wisconsin recently co-authored a publication called *Forest Certification in North America*. It includes an outline of opportunities, limitations, and costs associated with certification. In addition, Fletcher and Hansen have conducted certification assessment trainings and other informational presentations to various groups in the Pacific Northwest, as well as nationally and internationally.

Today, companies are beginning to shift their focus away from the heavy emphasis on certification toward a focus on corporate responsibility, says Hansen. He stresses that environmental marketing strategies must be integrated across business functions and reflect a genuine commitment to environmental performance, including sustainable forestry. "Environmental marketing strategies present risks to companies that fail to base their communication on defensible positions," he says. Essentially, companies that internalize environmental performance as a core value throughout their operations are in a stronger position to back their advertising claims.

## Testing the market

An outgrowth of the forest certification system involves eco-labeling. An eco-label is a proprietary symbol used to distinguish a product that has been produced according to a given environmental standard, and can be used by manufacturers of wood products to identify wood from certified forests. Forest products companies hope to capture new markets and gain market advantage as they communicate their good environmental performance in this way.

**Roy Anderson**, PhD candidate in forest products marketing, has focused his research on consumer response to this type of marketing strategy. In a recent study, Anderson placed two identical bins of plywood side by side at The Home Depot, one bin with ecolabeled wood and the other without such labeling. His study revealed that, without a price premium, consumers were more likely to buy the eco-labeled wood. But when a two-percent price premium was added, consumers bought the unlabeled wood most often. According to the researchers, this finding suggests that marketing eco-labeled forest products in mainstream distribution channels may not be an effective strategy for those seeking to obtain a price premium. However, "through appropriate consumer segmentation strategies, obtaining price premiums may be possible."

## Studying and teaching what works

Academic publishing in the area of environmental marketing is relatively new. Hansen has published case studies to share insight into the internal culture of companies and the motivation for pursuing environmental marketing strategies. "The experiences and evolution of companies that are involved with environmental marketing is key to understanding the effectiveness of environmental marketing strategies," he says.

In addition, he recently co-authored and published a forest products marketing textbook with Heikki Juslin of the University of Helsinki entitled Strategic Marketing in the Global Forest Industries. Based on a holistic concept of marketing, the text offers a model-based approach to bring students from the realm of theory to real-world, practical planning processes. Specific company examples are used throughout the text.

Additional information and access to publications can be found on WS&E's web site at [woodscience.oregonstate.edu/research.htm](http://woodscience.oregonstate.edu/research.htm).

## New Journal, New Editor

Eric N. Hansen, Wood Science & Engineering, has been named by the Forest Products Society as the inaugural editor of the Journal of Forest Products Business Research, a new journal to be published by the Forest Products Society. This venture will be officially launched at the annual Forest Products Society meeting in June in Bellevue, WA, and the first issue will be published in Fall 2004. Hansen was instrumental in the development of the new journal, which will provide a forum for the exchange of information within the broadly defined fields of forest products business, management, and marketing.

## Successful Wood Science & Engineering Graduate Students – Congratulations!

**Eric Dancer, MS** "Life Cycle Inventory of Laminated Veneer Lumber and Composite I-Joist Manufacturing"

**Randy Scott, MS** "Lateral Force Resisting Pathways in Log Structures"

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# Forest Science

## New Information on Swiss Needle Cast

A recently released study shows that the fungus causing the Swiss needle cast epidemic comes from two distinct genetic lineages. One of the lineages has been found only in the Oregon Coast Range and the other has a worldwide distribution due to its movement on Douglas-fir nursery stock.

Over the years, some have attributed distribution of the disease to the monoculture introduced with today's plantation forestry practices. It has also been suggested that climate may play a role. Now it appears that the presence of two lineages of the pathogen offers another possible explanation.

Approximately 385,000 acres of forest in western Oregon and Washington are moderately to severely damaged by the disease, which affects only Douglas-fir trees. When conditions are favorable, the disease can spread rapidly by spores traveling on wind-blown rain in late spring.

Research Associate **Lori Winton**, in collaboration with Professors **Jeff Stone** and **Everett Hansen**, discovered the second lineage. The Swiss Needle Cast Cooperative, a collaborative effort of private industry, public agencies, and university researchers, released the study. New DNA-based techniques were used to study the genetic diversity and population structure of the fungus. The identification of two fungal lineages poses a number of questions that scientists cannot yet fully answer. "There is evidence that the second lineage of the fungus may cause more damage, with more severe needle loss, retarded growth, and possibly tree death," says **Greg Filip**, Professor of Forest Science and Director of the Swiss Needle Cast Cooperative.

The disease and the fungus that causes it are native to the Pacific Northwest, and were first described in 1925. At the time, neither was believed to be of any significance. By the 1970s Swiss needle cast had become a big problem for the region's Christmas tree industry. In the past decade, the disease has spread rapidly, dramatically reducing the growth of hundreds of thousands of acres of Douglas-firs on public and private forestland.

The Cooperative has already developed a number of management practices that can help reduce problems with this fungus, and an extension publication is available that outlines some of these approaches. Possible approaches include implementing different regeneration methods, vegetation management techniques, fertilization, thinning, pruning, clearcutting, and planting of different tree species. Development of genetically resistant Douglas-fir is also being explored. **(See Alumni & Students for related story.)**

## Beverly Law Granted Tenure



**Beverly Law**, Associate Research Professor in Ecophysiology and Ecosystem Processes, was granted tenure effective July 1, 2003. She has been a faculty member at OSU since 1995. Her research focuses on global change, particularly the influences of climate and disturbance on processes controlling carbon, water, and energy exchange between vegetation and the atmosphere. She conducts ecophysiological research on the coupling of canopy and soil processes, and the effects of biotic and abiotic factors on soil autotrophic and heterotrophic respiration. She is the Science Chair of the AmeriFlux network.

Law received a BS degree in Forest Resources and Conservation from the University of Florida, and a PhD in Forest Science from OSU. She worked for the US Environmental Protection Agency in the Acid Rain Program and helped develop the Forest Health Monitoring Program for the USDA Forest Service.

## Pamela Matson Named Dean at Stanford

**Pamela Matson** ('83) was appointed Dean of the School of Earth Sciences at Stanford in December 2002. Matson joined the Stanford faculty in 1997, following positions as a professor at UC Berkeley

## Successful Forest Science Graduate Students – Congratulations!

**Susie Dunham, PhD**

"Population Genetics, Systematics, and Habitat Associations of Chanterelles in the Pacific Northwest"

**Steve Fonte, MS**

"The Influence of Herbivore Generated Inputs on Nutrient Cycling and Soil Processes in a Lower Montane Tropical Rain Forest of Puerto Rico"

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and research scientist at NASA. She earned her PhD in Forest Science at OSU. Her research focuses on biogeochemical cycling and biosphere-atmosphere interactions in tropical forests and agricultural systems.

## 2002 GIS Day a Success



About 75 middle- and high-school students enjoyed hands-on learning at the third annual OSU GIS Day, co-sponsored by the College of Forestry and Department of Geosciences. GIS Day is a nationwide grassroots effort where GIS users, educators, and vendors open their doors to schools, businesses, and the general public to showcase realworld applications of GIS technology. Volunteers from the College of Forestry, PNW Research Station and Departments of Geosciences and Computer Science led

the participants through a series of activities to raise awareness and teach the technology.

Participants spent the first two hours rotating through a poster session and hands-on demonstrations held at the College of Forestry. After the morning sessions, students were escorted to the PNW Forest Science Lab where they ate lunch, were entertained with two short GIS videos, and had the opportunity to interact with GIS and remote sensing professionals. After the videos, twelve students competed in a Geography Bowl, amazing volunteers by correctly answering the question, "What famous sports star has a degree in Geography?" (Answer: Michael Jordan.)

The grand finale of the Forestry component was a Global Positioning Systems (GPS) exercise. Twelve volunteers led students through four separate routes on a word scavenger hunt from the FSL to Wilkinson Hall. Each group had a route map and a hand-held GPS unit with which to find the clues. "They were fully engaged," says Sharon Clarke of the Forest Science Department. "Seeing students' eyes light up as they found their school or house on an aerial photo or held a GPS unit in their hands and walked across campus was a rewarding experience."



Virtual Oregon and OSU Bookstore donated prizes. Virtual Oregon also donated money for snacks.

## Annual Awards

The Forest Science Department gives out a number of awards at their annual spring picnic, held this year on May 30, 2003.

## Graduate Student Fellowships

Catherine Bacon Fellowship: **Michelle Cannon**; Lu Berger Fellowship: **Nicole Czarnomski**; Henry and Mildred

Fellows Fellowship: **Jingli Li** and **Gancho Slavov**; Robert Tarrant Fellowship: **Michael Fox**; Hayes Fellowship: **Kevin Dodds** and **Liane Beggs**; Outstanding Student Achievement Award: M.S. student: **Anne Fiala**; Ph.D. student: **Gancho Slavov**

## Faculty Awards

"Big Fish" Service Award: **Jay Sexton** (Senior Research Assistant); Outstanding Faculty Award: **Glenn Howe** (Assistant Professor; this award is chosen by the students in the Department)



# Forest Resources

## Fire Control a Hot Issue



In the wake of last summer's devastating wildfires, the controversy over managing federal forests continues. **Dean Hal Salwasser** believes it's not a question of whether to actively manage our forests, but how. He told Salem's Capital Press recently that "the world cannot tolerate no forest management." Salwasser and colleagues from the College recently toured the state with the Oregon Forest Resources Institute to explain why state and federal funding should be made available for monitoring and evaluating forest management practices, particularly in light of the potential for huge losses due to uncontrollable wildfires.

"We've got to bust some barriers," Salwasser told the Oregon Stater last December. "We need to bring universities into a more integral role with agencies in designing education, research, monitoring, and outreach applied to problem solving." Instituting carefully designed logging practices to reduce fuel conditions, restoring forest health and thereby reducing wildfire hazards are among Salwasser's major goals.

The College has actively supported efforts by **Senator Gordon Smith** and **Representative Greg Walden** by participating in their town hall meetings to provide a scientific perspective on forest management. Spurred by the belief that the information necessary to achieve the vision articulated in the National Fire Plan is inadequate, Salwasser and others submitted a concept paper last November to Smith and Walden, requesting congressional approval to establish a Fire Intensified Research and Education (FIRE) Program. The program would tailor research and education to local and regional needs in areas with high wildfire risk.

Other faculty members throughout the College are making proposals to the federal Joint Fire Science Program to gain funding for research on specific preand post-fire management issues. Included are proposals aimed at studying salvage logging and reforestation practices; interactions between climate, fire regimes, and fire management; and relations between pre-fire conditions and fire effects on sites burned in the 2002 wildfires.



## Reuter Joins Cascades Campus Faculty

OSU welcomes **Ron Reuter**, who recently joined the College of Forestry as Assistant Professor in Natural Resources at the Cascades Campus in Bend. His academic home is the Forest Resources Department. Reuter was most recently a lecturer and lab instructor in the Range Resources and Wildland Soils Department at the College of Natural Resources and Sciences at Humboldt State University. He holds a BS in Environmental Resource Management from Penn State University, an MS in Soil Science from the University of Idaho, and a PhD in Soil Science from the University of Minnesota.

## Ethiopian Fulbright Scholar Visits OSU

**Tesafaye Teshome**, Fulbright Scholar and Academic and Research Vice President of Debub University in south central Ethiopia is here at OSU for a six-month stay. Teshome was the first graduate of the Wondo Genet College of Forestry at Debub twenty-five years ago, and his goal is to further develop the college as a center of excellence in the region.

His visit marks the solidification of what promises to be a long-term collaborative partnership between OSU and Teshome's institution in Africa. With the financial support of the Counsel for International

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Exchange Scholars, he is here to prepare manuscripts for publication in the area of forest growth and modeling, working closely with David Hann in Forest Resources. He is working with Bart Thielges, Badege Bishaw, and Loren Kellogg to complete a jointly written proposal to USAID to secure funding to develop a curriculum in natural resources management at Wondo Genet. In addition, Teshome is updating the teaching materials for forest management classes at Wondo Genet by studying what is offered here at OSU.

## Thinned Forests, Healthy Forests

For the young forests that cover vast portions of the Pacific Northwest, the message is clear: thin is in. Thinning can help young forests develop old-growth characteristics and can enhance the diversity of plants and animals — but only if methods are used that protect shrubs, hardwoods, and large or old trees.

According to **John Tappeiner**, Forest Resources professor and retired USGS forest scientist, the many thousands of acres of productive young plantations on federal lands are now being considered for management to provide for old forest wildlife habitat, rather than for wood production as was originally intended. Tappeiner has been working with scientists from



### Successful Forest Resources Graduate Students – Congratulations!

**Robin Biesecker, MS**

**Meg Cowden, MS**

**Sean Garber, MS**

**Jeff Hamann, MS**

**Rebecca Hirte, MS**

**Cory Langhoff, MS**

**Rhonda Mazza, MS**

**Jim Wilton, MS**

**Mark Hanus, PhD**

**Andrea Laliberte, PhD**

**Solange Nadeau, PhD**

**Duncan Wilson, PhD**

the departments of Forest Science, Botany and Plant Pathology, Entomology, the BLM, and USGS to study the growth patterns of old-growth stands, and younger thinned and unthinned stands in the Cascades and Coast Range. Evidence suggests that large old-growth trees apparently grew at lower density than is found in many of today's plantations.

Thinning dense young forests may help the trees grow faster and can also improve biodiversity, especially when shrub stems, hardwood trees, and old remnant conifers are left intact. Diversity and abundance of mosses and lichens, especially those important as food for wildlife — forest songbirds, caterpillars, and other insects — were greater in thinned young stands and old-growth stands than in young, unthinned stands.

Tappeiner doesn't advocate an across-the-board prescription for thinning, though. "We need to develop thinning prescriptions on a site-by-site basis. Variations in stand density, age, species composition, history, ownership, site quality, and management objectives among and within stands need to be considered site quality carefully for each stand and instance of thinning."

### Annual Awards

J. R. Dilworth Memorial Fund: **Jeff Hollenbeck, Andrea Laliberte, and Amie Shovlain**; Forestry Graduate Fellowship: **Adam Wiskind**; Dorothy D. Hoener Memorial Fellowship: **Christina Kakoyannis**; Arnold and Vera Meier Fellowship: **Christine Shaw**; Alfred W. Moltke Scholarship: **Ryan Gordon**; Richardson Family Fellowship: **Erin Kelly and Fernanda Pegas**; Saubert Fellowship: **Erin Kelly, Amie Shovlain, and Adam Wiskind**; Schutz Family Fellowship: **Amie Shovlain**; Supplemental Laurels: **James Dickinson, Amie Shovlain, and Julie Wirth**; Targeted Graduate Tuition Scholarship: **Peter Giampaoli**; and Weyerhaeuser Research Fellowship: **Eric Toman**

## Forest Engineering

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### Boston Returns to OSU as Faculty Member

**Kevin Boston**, who earned his MF in 1991 and PhD in 1996 at OSU's College of Forestry, has joined the Forest Engineering faculty as Assistant Professor.

Boston returns to OSU from New Zealand, where he was the national supply chain planner for Carter Holt Harvey Fibre Solutions. His specialty in the College will be forest transportation and operations design. Boston's current research interests are spatial harvesting scheduling, supply chain management, and road systems management.

### Computer Technology Aids Harvest Scheduling

Forest planning in the Elliott and Tillamook State Forests has taken on a whole new dimension since **John Sessions** got involved. Sessions writes computer modeling programs to project harvesting schedules that take spatial and regulatory constraints into account. These models are helping state foresters develop forest management plans to meet state requirements and habitat conservation plans to meet federal requirements.

"This kind of spatial component derives a good solution to put on the ground," says Pam Overhulser, resource analyst from ODF. "It's a huge step forward in the modeling field."

### Using Synthetic Rope

Forest engineer **John Garland** continues to research the feasibility and practicality of using synthetic rope to replace wire rope in logging operations. Funded by OSHA, Garland's initial research proved that synthetic rope has definite ergonomic advantages. OSU student loggers now use it for winch lines, guy lines, and mainlines, and professional loggers are beginning to use it as well. Another purpose of this second research phase is to design suitable end connectors so synthetic rope can be used in tandem with wire rope.



### Paired Watershed Study to Examine Intensively Managed Forests

While most of today's timber harvest comes from intensively managed, regenerated forests, data on the effects of contemporary forest management practices on these lands is very limited, says **Arne Skaugset** of Forest Engineering Department.

"Whenever we look at the effects of intensive forest management on water quality at a watershed scale, we're always limited by the paired watershed studies from 30 to 40 years ago," he says. "Those studies investigated the logging of old growth stands harvested using large equipment." No comparable environmental study has yet been conducted on forestland that has been intensively managed using contemporary practices, with an established road system and smaller trees that are harvested with smaller equipment.

The Hinkle Creek Paired Watershed Study and Demonstration Area Project is meant to fill that knowledge gap. Through this pilot project of the Watersheds Research Cooperative, scientists involved in the Hinkle Creek project will have the opportunity to pair two watersheds in a 55-year-old, harvest-regenerated forest. The purpose of the study is to evaluate how well current forest practices protect water quality, aquatic habitat, and fish—particularly salmonids. Hinkle Creek is a 5,000-acre watershed located 30 miles east of Sutherlin in the Cascade foothills and is owned primarily by Roseburg Forest Products. The north watershed will remain untouched for at least ten years so it can be used as the control area. Meanwhile, Roseburg has ceased harvesting in the south watershed and

will leave it as is until 2005. Scientists are in the process of installing equipment and collecting background data on both watersheds. The first studies will focus on the cumulative affects of harvesting in upstream, nonfish-bearing headwaters. This issue has been addressed conceptually for years and this project will be one of the first efforts to address it quantitatively.

This unique opportunity to engage in manipulative studies at a watershed level has drawn scientists to the project, says Skaugset. Teams are in place to study the hydrology, freshwater and anadromous fish populations, aquatic invertebrates, and amphibians at the Hinkle Creek watersheds. Scientific leadership for the study comes from OSU's Forest Engineering Department, FRESC, the Fisheries and Wildlife Department, and biologists from ODFW. Roseburg Forest Products, OFIC, and ODF have provided strong administrative support.



An important aspect of the Hinkle Creek project will be the development of programs to demonstrate forest practices and results of the research. These programs will be targeted to forest resource professionals, forest landowners, policy makers, school children, and the public at large.

"Hinkle Creek is quintessentially the type of forest land that the private industry is currently managing," says Skaugset. "This project will give us an opportunity to get a handle on the effect of contemporary forest practices on water quality and fisheries."

## Innovative Grants Program Funds Oak Creek Watershed Study

Each year, the CoF solicits proposals from within the college for innovative programs in education, research, or extended education. Funding is provided by discretionary funds generated by the College.

In 2002, Arne Skaugset and Jeff McDonnell received a \$10,000 grant to study the hydrology of roads in the Oak Creek watershed within McDonald Forest. The project will investigate the connectivity of the road system to the stream system using stable isotope tracers. The project should provide insight into how roads affect the hydrology of a watershed.

## Successful Forest Engineering Graduate Students – Congratulations!

Abdullah Akay, PhD "Minimizing Total Cost of Construction, Maintenance, and Transportation Costs with Computer-Aided Forest Road Design"

Jennie Cornell, MF "Aerial Forest Operations: Mineral Amendment Project"

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## Alumni and Students

### Starker Tests Remedy for Swiss Needle Cast



A little "cowboy science" may be paying off for Starker Forests, says **Mark Gourley** ('78), a professional forester with Starker. Since 1995, he and dozens of other members of the Swiss Needle Cast Cooperative have been trying everything they can think of to find an antidote to Swiss needle cast, a disease affecting thousands of acres of Douglas-fir trees in the Oregon Coast Range. "We tried every fungicide out there— stuff that wasn't even on the market yet," he says. "None of them would work."

After years of trying various combinations of manual and chemical weed control, fertilizers, and soil amendments, Gourley is cautiously optimistic about the promise of micronized sulfur as part of a possible treatment prescription they've been seeking.

He says it's a challenge to get the element into the trees, which must be doused twice a year. Since Swiss needle cast affects only newly growing foliage, application must be made right after the buds break.

So far, the treated trees are showing encouraging signs of healthy growth. But there are still a lot of unknowns. "We don't know the economics of this type of treatment, and we don't know what the growth differences will be," says Gourley. "We don't know how many years in a row we need to do this or how large an area we need to treat. How long does treatment last? How fast will the fungus reinvade from the edges?" While the Swiss needle cast scientists may be on to something, it will take several more years of experimentation to answer the many questions.

One thing is crystal clear, though: the deer and elk love the effects of sulfur on grass and other forage. According to Gourley, it makes the understory grow greener and three times as tall. He says the deer and elk mow it down as quickly as it grows.

### New Hispanic Liaison for Student Services

José Diéguez has been named Hispanic Liaison for College of Forestry Student Services, a position that is jointly funded by Weyerhaeuser Corporation and the College of Forestry. Diéguez will be working with the Hispanic/Latino communities in and around the Salem area, involving youth in forest resource activities and recruiting future students and professionals into forest resources fields.

This recruitment effort is designed to prepare prospective hires at Weyerhaeuser. Students will attend Chemeketa Community College and OSU. Weyerhaeuser will provide job shadows, internships, scholarships, and other resources.

Diéguez has more than 15 years of experience working in Forestry and was most recently with the BLM as a surveying technician. He holds a bachelor's in forestry and a master's in forest resources conservation from the Universidad Nacional Agraria in Peru.



Three hundred elementary students and their parents descended on Starker Forest land in January, along with over 70 volunteers from the OSU SAF chapter, Philomath and Corvallis High Schools, Boy Scout Troop 142, and Explorer Post 122. Starker Forests hosts the event not only to educate the community about reforestation, but "to get people out in the woods in a fun way," said Starker employee **Dick Powell**. By the end of the day, the students had planted 3,000 Douglas-fir, hemlock, grand fir, and western redcedar seedlings and had their fill of hot dogs and hot chocolate served up by Boy Scout troop 142.

### Fernhopper Day 2003 was wet, bright, fun

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The 60 Fernhoppers who gathered for the Fernhopper Day 2003 tour (May 17) got a taste of this year's long, wet western Oregon spring as they toured the College Forest in sunshine, rain, and hail.

This year's Fernhopper Day theme was "The College of Forestry—Past, Present, and Future." Tour participants visited a seven-year-old forest thinning study and then stopped at the Peavy Arboretum "post farm," a monument to 76 years of wood preservation research at the College of Forestry.

Then it was sandwiches and coffee at the Forestry Club cabin, where **Bob Zybach '91** spoke and showed slides of the history and prehistory of McDonald-Dunn Forest. **Dean Emeritus George Brown** talked about the history of watershed research at the College, and **Dean Hal Salwasser** spoke about current conditions in the world of forestry and at the College, and of the College's goals for the future.

The sun came out a few times at the George W. Brown Logging Sports Arena as students and visitors threw axes and bucked logs. Long-time College Forest manager and '50 alumnus **Marv Rowley**, 79 and going strong, performed the single buck, pausing only once to catch his breath. About 210 Fernhoppers, faculty, staff, and students attended the banquet. Ninety-two students (23 graduate students and 69 undergrads) received scholarships and fellowships totaling approximately \$270,000.

The College honored its top students, faculty, and alumni with the following awards: Paul and Neva Dunn Outstanding Senior Award: **Paul Betts**, Forest Engineering/Civil Engineering, and **Brad Eckert**, Forest Management; Harold Bowerman Leadership Award: **Alex Dunn**, Forest Engineering/Civil Engineering, and **Kate Pryor**, Forest Recreation Resources; Kelly Axe Award: **Kate Pryor**; Julie Kliever Mentoring Award and Aufderheide Award for Excellence in Teaching: **Brian Kramer**, Senior Instructor in Forest Engineering; College of Forestry Outstanding Alumnus Award: **Marvin Rowley '50**; Pack Essay Awards: **Jessica Adine**, Forest Engineering, **Carrie Heisler**, Natural Resources, and **Paul Betts**, Forest Engineering/Civil Engineering.



In addition, the student chapter of Xi Sigma Pi conferred an honorary membership on **Jack Walstad**, head of the Department of Forest Resources, whose alma mater, Duke University, didn't have a Xi Sigma Pi chapter when he was a student.



## Lewis & Clark Meet GIS

**Andrea Laliberte** is bringing Lewis & Clark back to the future. She believes these explorers have a lot to teach us about conservation and ecology, and she's using today's technology to prove it. For her dissertation, Laliberte used daily entries in Lewis & Clark's journals, which contain detailed records of animals hunted or spotted along the trail, to develop a GIS.

She mapped nine species of mammals, recording the number seen and killed by the expedition in a spatial database. She also mapped Lewis & Clark's encounters with Native Americans. The purpose was to examine the spatial relationships between wildlife and human settlements. She created an interactive map that allows users to click on each campsite and get information on the number of species encountered on a particular day.

"I was surprised at the detail and consistency of reporting by Lewis & Clark," LaLiberte says, "I believe the journals contain valuable information about historical ecological conditions, and that this knowledge can be applied to issues in conservation biology and ecological restoration." Laliberte received an award for best

student presentation at the 2003 annual meeting of the Northwest Section of the Wildlife Society, and her work has recently been accepted for publication in a forthcoming issue of Bioscience. The map is available at [www.cof.orst.edu/lewis&clark](http://www.cof.orst.edu/lewis&clark).



## Donors and Outreach

### In Memoriam

#### Loss of a Legend and a Friend



**Theodore C. "Ted" Scheffer**, long-time Professor in the Department of Wood Science & Engineering, has passed away. He was 99. Scheffer was born in Manhattan, Kansas, but grew up in Puyallup, Washington. He married Fluvia Gray in 1927, whom he knew from high school. Scheffer went on to college at the University of Washington College of Forestry, where he received a masters degree, followed by a doctorate from the University of Wisconsin in 1934. His doctoral research was in plant physiology and pathology, and his post-doctoral work at Johns Hopkins University focused on control of wood-damaging organisms, and was supported by a National Research Council Fellowship. He joined the U.S. Forest Service Forest Products Laboratory at Madison, Wisconsin, in 1935, where he worked until his retirement in 1969.

Scheffer then moved back the Pacific Northwest, joining the staff at the College of Forestry as research associate and later courtesy professor. His many years of service were formally commemorated when the Wood Products Pathology Laboratory was dedicated in his name. In addition to his expertise and knowledge, Ted's congenial presence was a welcome addition to College gatherings, whether in the coffee room or at his much-anticipated birthday parties.

He was a member of the Corvallis Rotary Club, Society of American Foresters, Forest Products Society and the Presbyterian Church. Survivors include his sons, Ted G. of Monroe, Wisconsin, and Alan P. of Sioux City, Iowa, as well as six grandchildren and five great-grandchildren. Memorial donations can be made to Save the Children or the Nature Conservancy.

#### OSU's Beloved Pioneer Forester Passes



**Pauline Barto Sandoz**, the first female forestry graduate of Oregon State, has passed away. Sandoz upset the social order when she enrolled as a forestry student in 1939, paving the way for other women who have followed in her footsteps throughout the years. She graduated in 1945 with a bachelor's degree in Forest Management. However, besides one year spent as a forest-fire lookout, it wasn't until her husband Fred died in 1985 that Sandoz had a chance to actively use her forestry degree. It was then that she took over the management of the family's 120 acres of timberland.

Sandoz was born in 1921, the only girl in a family of six children. She was raised on a 160-acre homestead near Junction City, where her father started Oregon's first rhododendron nursery.

#### Bart A. Thielges



*June 16, 1938 — June 29, 2003*

Bart A. Thielges died suddenly in San Luis Obispo, CA. Our heartfelt condolences to Bart's wife, Judy, their three sons and families. A memorial service is planned at the College of Forestry, August 18, 3:00 p.m. in the Hatfield Courtyard, Richardson Hall.

A memorial will be included in the Fall issue of the Focus on Forestry. Remembrances for inclusion may be sent to Caryn Davis at [caryn.davis@orst.edu](mailto:caryn.davis@orst.edu)

#### New & Renewed Gifts

At a sprightly age of 102, **Priscilla E. Duncan** is still going to the ballet and still giving

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generously to a College of Forestry scholarship fund that honors the memory of her late husband, Gordon Duncan ('23). "She has always been very supportive and wants to continue to help the College," says her daughter, **Priscilla Stephenson**.

The family and friends of Ted W. Maul ('47) have established an endowed fund to benefit forestry students as a loving tribute to Maul's memory. Maul was the assistant state forester when he retired and specialized in fire protection. He died on Oct. 6, 2002.

"My father was an advocate for education and donated regularly to the College of Forestry while he was alive," says Maul's son, **John Maul** (Assoc. Prof., Art). The Ted W. Maul Professional Development Fund will provide funds for travel expenses related to students attending professional meetings. It is still open for contributions from donors wishing to honor Ted Maul.

Alumni **Dan Graham** (Forest Engineering, '51) and **Marilyn Graham** (Education, '52) have created a charitable gift annuity, an arrangement that currently generates income for them. After their lifetimes, the proceeds will support scholarships in Forest Engineering.

Through their foundation, **Wes and Nancy Lematta** of have established a new \$150,000 graduate student fellowship. Their gift will support students who are working on advanced degrees in Forest Engineering.

Through a gift of \$60,000 from the estate of Francis **Robert McCabe** ('34), the Francis R. McCabe Memorial Scholarship has been established to provide undergraduate scholarships. McCabe earned a degree in Forest Management from OSU.

With gifts totalling \$20,000, **Edmund (Ned) Hayes, Jr.** has funded a new graduate fellowship in Forest Science. The Fellowship will support master's or PhD candidates who are working on practical problems associated with forest management.

The **N.B. Giustina Foundation** has provided a gift of \$25,000 to support forestry research. The College is using the gift to support research projects proposed through the Innovative Grants program initiated this year. The program awards grants to College faculty and staff through a competitive process designed to bring value to the College.

Donors **John Gardner** (Forest Products, '43) and **Brenda Gardner** (Home Economics '42) have contributed \$10,027 to the College of Forestry's general scholarship fund. This is the second generous gift the Gardners have made to support students.

With a gift of \$10,000 from their family foundation, **Wendell and Barbara Walker** continue to support the work of Forestry Extension, particularly the Master Woodland Manager program.

**Helen S. Carlson**, widow of **Gordon G. Carlson**, has added \$20,000 to the scholarship endowment fund that honors her husband's memory.

## Graduation Day

Vida Bullis has lived in the Willamette Valley during most of her 100 years of life, and has always enjoyed strong connections to OSU through family and friends. She recently created the Vida Bullis Charitable Remainder Unitrust, currently valued at \$1.47 million, which provides income to a family member. After that family member's lifetime, 80 percent of proceeds from the trust will benefit the College of Forestry, with the balance going to the Colleges of Pharmacy and Oceanographic and Atmospheric Sciences.



The trust was created using proceeds from the sale of 175 acres of timberland that was Mrs. Bullis's home for over 60 years. She and her husband purchased the property on Beaver Creek in 1936 and Mrs. Bullis lived there until 1997, when she moved to Seattle to be near family.

She loves all aspects of the forest, but especially the native plants whose survival depends on a mature forest. She enjoyed sharing her passion for wildflowers and environmentally sound forestry practices with visitors to her property, many of whom came to visit her substantial dahlia garden.

Although visitors initially came to see the garden, they kept coming back just to see her, says her granddaughter, Joyce Hershberger. They would wander the woods or simply sit on the creek bank to enjoy cooling off under the trees.

"She always welcomed visitors, loved where she was and what she was doing, and was always eager to share her considerable knowledge with others," says Hershberger. "She is one of those people who is so sincere and focused that she is special to many people."

Proceeds from the trust are to be used by the College of Forestry for research centering on the maintenance of ecosystems, habitat protection, and forest biodiversity. The funds will directly benefit students through grants and scholarships, the creation of teaching or research positions, and supporting graduate research projects or outreach programs in the schools.



**fêtes new graduates and their families with a reception in the Peavy courtyard, June 15, 2003.**

## New Course for Oregon's Log Haulers



In collaboration with the Oregon Forest Products Transportation Association, the popular LEAP (Logger Education to Advance Professionalism) program sponsored by OSU is now offering a course called "Forestry for Log Haulers: A Workshop in Support of Professionalism."

The course is offered for Oregon log haulers interested in improving their knowledge of the forestry sector, its regulations, public issues, and technologies. Some topics covered will include information about accreditation, certification, and licensing of people, products, and processes; public perceptions of forestry; Oregon's Forest

Practices Act; new technologies; and trucking costs. Various professional accreditation organizations may offer credit for participation.

OSU has been teaching forestry and business practices to Oregon's loggers since the 1970s. By the early 1990s, the educational effort had congealed into the organization called LEAP, and expanded to include silviculture and ecology. Currently, LEAP offers courses around the state to help loggers stay abreast of new industry regulations, technologies, and business practices. Other courses cover logging costs and bidding; selection, training and motivation of the forestry workforce; and visual management for logging contractors.

**John Garland**, timber harvesting extension specialist and instructor for LEAP courses, says LEAP is intended to reaffirm and solidify the value professional loggers bring to the management of our forests. "Loggers are the valuable link in executing applied ecology in our forests," he says. The Oregon Forest Resources Institute has been a helpful partner in the LEAP program, providing funds to develop the courses over the years.

Garland also says that while it was difficult at first to get loggers to see the value in the training LEAP offers, that changed once they attended. "Initially loggers felt they had to be there to get certifications," he says. "But once they did it they saw value and have created a demand for more." The training extends outside the classroom as loggers pass along new concepts to others on their crews.

## OSU Helps Tree Farmers Plan Across Generations

Planting a tree is a long-term investment. So when it comes time to pass on the family tree farm, long-term planning is necessary. A new program from Oregon State University Extension Service is helping forest owners plan transitions from one generation to the next.

"When you are managing a crop that spans generations, you need to talk about long-term goals and values with your family," says Mike Bondi, OSU professor and Extension forester in Clackamas County. Bondi and **Pat Frishkoff**, former director of OSU's Austin Family Business Program, have designed a program to help families discuss sensitive issues and plan for the future of the family tree farm. The program explores the human side of transitioning forestland from one generation to the next.



"Forest owners may be worried how to keep the farm in the family," says Bondi. "Or they may find it hard to choose which family member should be given the responsibility for managing the family farm. Where most families struggle is being able to openly communicate about family values, priorities, wishes, and commitments."

Recently, 60 family members joined Bondi and Frishkoff in the OSU Extension program to talk openly about what works in family businesses and what doesn't. Several families were there with grandparents, parents and children. "Pat focused attention on the tough issues, helping families define what their farm means to them, what their vision for the future is and how to set goals to reach their wishes," Bondi says. At the end of the one-day workshop, each family left with a transition planning notebook and the beginning of a plan for transitioning ownership and management of the family farm.

For more information about the program, "The Future of Your Tree Farm: The Human Side of Transitioning to the Next Generation," contact the Clackamas County office of the OSU Extension Service at 503-655-8631.

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