

# FOCUS

Winter 2011

THE MAGAZINE OF OSU COLLEGE OF FORESTRY

**Oregon State**  
UNIVERSITY

## Dean's Column



The United Nations has declared 2011 the International Year of Forests—an opportunity to raise awareness of, and celebrate, the multiple values forests provide the world. I see it as an equally appropriate time to celebrate the activities of the faculty, staff, and students of the College and Oregon Forest Research Lab.

First a look at students—our most important product. Last June we awarded 153 bachelor's degree and 43 graduate degrees. Enrollment this fall has pushed us over 1,000 students. We continue to be a destination school for those interested in forests, forest management, renewable materials, and natural resources. We are able to attract many of these students with more than \$750,000

in scholarships. For this I thank our alumni and donors for their continuing generosity in helping make education more affordable.

The achievements of our faculty are just amazing. In fiscal year 2011, faculty earned more than \$13 million in external grants and research cooperative dues. Recent successes include leadership and award of mega projects that involve multiple universities and agencies in the Northwest. I invite readers to review our Academic Report to the Provost ([www.forestry.oregonstate.edu/](http://www.forestry.oregonstate.edu/)) and our recent Biennial Report ([www.forestry.oregonstate.edu/annual-reports](http://www.forestry.oregonstate.edu/annual-reports)) for a complete appreciation of the efforts and impact of this College and Research Lab.

We have also taken advantage of a University initiative to hire new faculty who can bridge their expertise and research across colleges. Two new hires include a “green” building engineer and a climate change modeler. Speaking of hiring, we have searches in progress for both the Wood Science & Engineering and Forest Ecosystems and Society department heads. Tom McLain retired, and Brenda McComb was promoted to Dean of OSU's Graduate School. Both will be missed as part of our leadership team.

Finally, I'll mention two significant gifts: First is a gift from the Maybelle Clark Macdonald Fund to endow a Professorship in Teaching Excellence. Second is a gift from Allyn and Cheryl Ford (Roseburg Forest Products) to endow Forestry's Dean. Both gifts also earned a 5-year funding match from the University, providing extra ability to undertake special programs. The Ford gift is particularly significant in that it will help attract world class candidates for my successor. Yes, I have announced my intention to step down from the Dean position at the end of this academic year. The search process is in motion. More on that in the next issue.

A handwritten signature in black ink that reads "Hal Swanson". The signature is fluid and cursive, written over a light background.

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### NOW PLAYING

Corvallis Film Festival celebrating the United Nations International Year of the Forests 2011. For details, visit <http://international-programs.forestry.oregonstate.edu>

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Cover: Starker Forests.  
Photo credit: Jordan Benner, Oregon Forest Resources Institute (OFRI).

## Attention Job Seekers and Employers!

The Student Services Office offers an employment site where alumni can find job announcements and employers can advertise their open positions. See what's available at [studentservices.forestry.oregonstate.edu/jobs/alljobs](http://studentservices.forestry.oregonstate.edu/jobs/alljobs)

Or call 541-737-1594 to advertise your open position(s).



# Our **WORKING** forests: changing climate, adapting management



Oregon Coast Range forest. Photo credit: Jordan Benner (OFRI); Douglas-fir cone. Photo credit: Ed Jenson (OSU).

Humans depend on forests for food, shelter, water, fuel, recreation, inspiration, and many other benefits. At the College of Forestry, we seek to better understand how forests function to provide the diversity of benefits we derive from forests. Our goals include the discovery and dissemination of knowledge related to the interactions among forests, people, and other organisms—especially in the face of climate change, land use pressures, and economic uncertainties.

The forests of the Pacific Northwest are amazingly productive, but will this change in the future? Most scientists agree that global climate change has already affected where and how trees grow, and long-term changes in temperature and precipitation will present new challenges to forest managers in working forest landscapes. The key is that forest species are genetically adapted to their local climates—and as local climates change—so will forest health and productivity. Adaptability of forest trees—their ability to tolerate stresses such as drought, temperature extremes, insects, diseases, and fire—will be crucial in the future. Adaptability has both genetic and environmental components that can be altered via forest management, but we currently lack sufficient site-specific knowledge to apply these measures broadly or with confidence.

The Taskforce on Adapting Forests to Climate Change (TAFCC), under the leadership of Glenn Howe, FES, in the CoF/FRL, is a group of scientists and land managers from universities and state and federal agencies working to understand the potential effects of climate change on natural and planted



forests in the western United States. They are developing new genetic and silvicultural approaches that foresters can use to help increase forest health and productivity in the face of climate change.

Howe, a forest geneticist, is studying the adaptive potential of forest trees and the need for developing new seed zones, breeding zones, and tree improvement methods that foresters can use to ensure well-adapted and productive plantations in the future. Howe is also planning for the future by developing genomic approaches to better understand forest adaptation and improve the efficiency and effectiveness of tree breeding programs.

Many strategies have been proposed to enhance the adaptability and carbon sequestration potential of forests, including changes in gene management, silviculture, forest management, and forest operations. Genetic strategies include planting alternative species or genetically distinct populations that are better adapted to future climates (e.g., by modifying seed zones and breeding zones); planting mixtures of seed sources; maintaining



Glenn Howe (FES).

connected landscapes to promote natural migration; maintaining functional-type, species, and within-species genetic diversity; enhancing gene conservation by archiving genotypes in arboreta or seed banks; and breeding new genotypes.

Field tests, seedling nursery studies, and controlled environment experiments can be used to develop models that describe how genetically distinct populations and improved seedlots will respond to climate change. This information can then be used to select appropriate seedlots for future climates, or to breed trees that are better adapted to future climates using a combination of traditional and genomic approaches. For example, Howe and colleagues developed a web-based Seedlot Selection Tool that can be used to select seed sources that are expected to be well adapted to future climates (<http://sst.forestry.oregonstate.edu>). Howe is also using advanced genomic techniques to identify tens of thousands of genes and genetic markers that can be used to increase the efficiency of tree breeding programs—for improving growth, wood properties, or adaptability.

Howe's research on climate change and forest genomics is supported by the members of the Pacific Northwest Tree Improvement Research Cooperative, as well as by TAFCC. Financial support is also provided by the National Science Foundation to the Center for Advanced Forestry Systems and by the USDA Agriculture and Food Research Initiative to the Conifer Translational Genomics Network.

# Green (and Orange) building – in Scandinavia

by Bryan Bernart



Sibelius Hall, Lahti Finland. Photo credit: Mike Burnard (WSE).

Wood is everywhere in Scandinavia, it seems, from the soaring beams of Sibelius Hall in Lahti, its stunning architecture inspired by Finnish forests, to the intricately carved oak of a 400-year-old Swedish galleon at Stockholm’s Vasa Museum. Wood products, both traditional and engineered, are seeing new and innovative uses in commercial buildings throughout Nordic Europe. What may be described as a “Scandinavian design” aesthetic is everywhere, too, characterized by an elegant functionality and the use of natural materials. With its historic tradition of building with wood and its forward-looking emphasis on innovative, nature-inspired design, Scandinavia is an ideal destination for exploring both architecture and the use of renewable materials in building.

In August/September, Eric Hansen and Chris Knowles of WSE and Virginia Cartright of UO led a 16-day study-abroad trip to Finland and Sweden for students from the OSU Renewable Materials Program and the UO School of Architecture and Allied Arts. The Board of Visitors generously helped support the interdisciplinary program, “Production

of Housing in Scandinavia: Innovation, Conservation and Design with Natural Resources,” which examined the Scandinavian housing industry from multiple perspectives that address regional sustainability.



Historic wooden shutters at the fortress Suomenlinna, UNESCO World Heritage site at the mouth of Helsinki’s Harbor, Finland. Photo credit: Mike Burnard (WSE).



Stora Enso's Fors cartonboard mill in Falun, Sweden. Photo credit: Mike Burnard (WSE).

Scandinavian planners, architects, engineers, product designers, and wood scientists joined in helping participants explore how climate, natural ecosystems, clean energy production, forest management, and innovations in the manufacture of wood products influence the design of furnishings, housing and residential neighborhoods.

Arriving first in Helsinki, the group traveled in Finland for several days to see examples of effective modern design and renewable energy production. Highlights included visits to the Alvar Aalto House, Sibelius Hall, and the Forest Products Department at the University of Helsinki; and tours of Helsinki Energy's Katri Vala plant and Olkiluoto nuclear facility. The group also enjoyed an "architecture and forest" tour at the headquarters of Metsäliitto, as well as visits to small communities and farms to see historic wooden buildings and small-scale energy production.

The trip's final leg began with a ferry voyage to Stockholm, Sweden and further travel to Uppsala, where, after a visit to a Viking museum, the group met with students from the Department of Forest Products, Swedish University of Agricultural Sciences,



Will Hollamon (WSE) and Chris Knowles (WSE) at the Viking Museum in Uppsala. Photo credit: Mike Burnard (WSE).

and visited regional sites. Highlights included a tour of Stora Enso bioenergy's value chain (forest to mill) and a wind energy farm. In Stockholm, the group visited historic architectural sites and traditional housing developments as well as Hammerby Sjostad, a densely populated area undergoing major urban redevelopment under innovative housing models.

Grad student Adam Scouse (WSE) observed that Scandinavians seem to readily accept high-density living arrangements. "The space limitations and living style challenged builders to provide adequate space, light, and access to the outdoor environment for all housing complex residents," says Scouse. He also notes that single-family homes on large parcels of land were rare in all but the most rural places. In this, perhaps the future of U.S. land development is foreshadowed, with a new emphasis placed on environmentally conscious building strategies and denser housing.



Students Jennifer Huang (UO), Christina Larson (UO), and Mike Burnard (OSU) on a park bench in Uppsala, Sweden. Photo credit: Mike Burnard (WSE).

With their complementary strengths, UO and OSU represent a powerhouse in the fields of housing and natural resources—and one that could be tuned to tackle difficult future challenges together. Perhaps future visits to Scandinavia, recognized as a chief innovator in both sectors, will unlock even more exciting possibilities at the intersection of forestry, wood products, and design.

As for traveling with Ducks and Beavers together, "it was surprisingly easy," says Knowles. As an educator, one of the things he enjoyed most about the trip was watching the two distinctive groups of students view the world through each other's eyes. "They even took pictures of different things," he notes. Over the course of the trip, the students had in-depth discussions about what they had seen during the day—something that Knowles found to be a very rewarding aspect of the trip. "We are fortunate in having these interdisciplinary experiences available through the CoF," he says. "It would be great to see more opportunities like this develop in our university system in the future."

# One thousand years of forestry

by Bryan Bernart

# 1000 años de silvicultura



Gathered beneath a large cork oak at Malpartida de Plasencia to learn about the unique history of agroforestry under the Dehesa system. Photo credit: Ed Jensen (OSU).

A castle from the 12th century stares across the plain at a line of enormous windmills spinning steadily in the warm breeze. From the plateau, the gravelly limestone trail runs down through the oak trees into a deeply eroded gully. Except for the dark oak leaves, the arid landscape seems almost monochromatic with silvery-leaved shrubs, “Scotch” broom dusty from the pale soil, and dry, sun-bleached grasses. The air is pungent with oregano, thyme, and sage, and beneath the trees are occasional patches of violently upturned soil, evidence of wild boar—another reminder of the 5,500-mile distance between this landscape and the cool, misty forests of Oregon.

This is the *Monte el Viejo*, a 1,000-year-old, 3,550-acre community forest in northern Spain. Located near the city of Palencia, in the autonomous region of Castilla y León on the vast Meseta Central, this Mediterranean coppiced oak forest differs in many ways from the working forests of the Pacific Northwest.

Yet, in some key ways, it is just the same: it is a sustainably managed forest used for a wide diversity of ecosystem services dictated by the needs of local society. And, just as so often happens in our own McDonald-Dunn Forest, it is currently hosting a forestry class. The group consists of students and faculty from OSU and the University of Valladolid (UVa), but participants hail from France, Haiti, Argentina, Costa Rica, Cuba, Paraguay, Bolivia, Mexico, Spain, and the United States. Monte el Viejo marks the first stop on a 10-day,

6-credit study abroad program, “Forest Resources Management in Spain and Its Cultural, Political and Biophysical Context,” designed to explore forest management techniques and learn about the diversity of objectives for which Spanish forests are managed.

For the past 12 years the two universities have collaborated academically to bring students and faculty from UVa to visit and study at OSU. But comparatively few students and faculty from Oregon have traveled to Spain for the same purpose, despite its rich tradition of forestry. Royal Jackson (Professor Emeritus, FES) started the ball rolling 10 years ago with a sabbatical leave and student field trip to Palencia. Jackson’s efforts were renewed in September, when, on the initiative of Doug Maguire (FERM) at OSU and two UVa faculty, José Reque, (Silviculture) and Felipe Bravo (Forest Modeling and Biometrics), eight students



SNIAE eucalyptus nursery in Cantabria, northern Spain. Photo credit: Irene Ruano (UVa).

and several faculty members from OSU traveled to the Research Institute of Sustainable Forest Management at UVA's agriculture and forestry campus in Palencia. The academic objectives for the course were to gain an understanding of the cultural, political, and biophysical context of managing forest resources in Spain; the connection between resource values, management approaches, national culture, and global pressures; and the historical background on forestry in Europe.

Forestry in Spain was already established by the Middle Ages, thus it offers lessons about forest management over an unusually long period. Spain is characterized by a unique combination of Mediterranean and maritime forest types that are vulnerable to wide annual climatic fluctuations and potential future climatic shifts. This unusually diverse range of forest types and ecosystem services also provides opportunities for learning.

The rigorous itinerary included field trips to directly observe different types of forests under various management objectives: silviculture for stone pine nut production on the Castillian Plateau; regeneration methods, resin production and silviculture in *Pinus pinaster* stands; management of beech and oak forests in the Cantabrian Range; intensive management of radiata pine and Eucalyptus plantations; agroforestry in oak savannas under "*La Dehesa*" system; production of cork in *Quercus suber* (cork oak) forests; and strategies for climate change mitigation and adaptation.

"Traveling to Spain with such a diverse group was surprisingly easy," says Maguire, "mostly due to the energy and enthusiasm of our UVA hosts. The program involved some long day trips out of Palencia, and the students responsibly designed strategies to both relax and shop for food in their down-time." He also notes that the UVA faculty did an excellent job of blending



Looking over traditional tile rooftops at the extensive pine forest, *Tierra de Pinares* ("Land of Pinewoods"), outside Cuéllar near Segovia, a city in central Spain famous for its Roman aqueduct. Photo credit: Irene Ruano (UVA).

academic and cultural experiences into the itinerary. Although the travelers had limited time to experience the city night life of Palencia, students and faculty did come together to celebrate a *fiesta* held in a tavern on the last day of the trip. "Even some teachers sang songs together—you can imagine who started that," jokes Reque (an accomplished and convivial musician).

Reque, who was a visiting professor at OSU in the summer of 2010, anticipates that the bond between OSU and UVA will continue to grow and thrive, especially after the recent exchange, which was generously supported in part by the Board of Visitors. "We hope that in the future, OSU faculty and students will take advantage of the opportunities that UVA offers, not only for field trips, but for conducting forestry research and for longer-term academic exchanges," adds Bravo, who spent a sabbatical year in Corvallis and continues collaborative research with CoF faculty.

"OSU students who have had the opportunity to experience Spain can only help to strengthen future relationships between the two places," Maguire agrees. "I'm glad that both culturally and academically, this most recent trip was a great success."



The whole group at La Tejada de Tosande Natural Area in northern Castilla y León. Photo credit: Ed Jensen (FES).



Deer Park, Olympic Mountains. (L to R): Ron Reuter, Valerie Byxbe, Nicolas Johnson, Dawn Anzinger, Sean Ellison, Corey Johnson, Derek Barnhurst, Chris Gustafson, Eric White, Iris Saxer, Matt Cox. Photo credit: Ron Reuter.

A recent survey of 330 current OSU College of Forestry students showed that outdoor adventure, including hiking and backpacking, was the #1 extracurricular activity enjoyed by the same students during high school. Forestry students also identified experiential (hands-on) learning as a key to both their interest and success in CoF programs.

Thanks to the generous support of the Board of Visitors, the College of Forestry was able to offer an innovative summer course that melds outdoor adventure and experiential learning. The primary goal of this two-year pilot program, created in partnership with the National Outdoor Leadership School (NOLS), is to identify and develop future leaders in the fields of forestry and natural resources.

The Olympic Mountains in Olympic National Park in Washington State provided the ruggedly scenic setting for the inaugural course, which took place from July 22-29, 2011. Five incoming CoF students, four mentors, and two NOLS instructors participated.

The students, who hailed from California, Florida, and three different regions in Oregon, represented a broad range CoF majors: Valerie Byxbe (NR, Jacksonville, FL); Sean Ellison (FM, Huntington Beach, CA); Chris Gustafson (RRM, Astoria); Corey Johnson (FE/CE, Clatskanie); and Nicolas Johnson (RM, Madras). They were selected

by a committee of CoF personnel. In addition to other criteria, they each wrote an environmental essay using the prompt, “When you think of your future, what is exciting about learning to manage forests and natural resources?”

CoF mentors were Dawn Anzinger, instructor of dendrology and forest biology; Eric White, assistant professor of forest resource economics, and Ron Reuter, associate professor of natural resources, OSU Cascades Campus; along with Principal Derek Barnhurst, from the Sweet Home School District. NOLS instructors were Iris Saxer and Matt Cox (who is also faculty research assistant, biological and ecological engineering, OSU).

The five-day backpacking trip began at the end of the road alongside the Dosewallips River that used to lead to Olympic National Park — “used to” because the road was washed away by the river a few years back. The trail passed through the dense rainforests, over Grey Wolf Pass at 6,200 feet, and ended in high alpine meadows at Deer Park in the Olympic Mountains above Port Angeles. The group hiked up to 10 miles/day while carrying 40-pound packs. The above-average snowpack for July enabled the group to acquire skills in dealing with hiking and camping in adverse conditions.

The course included exercises in leadership; expedition behavior; competence; communication; tolerance for adversity and uncertainty; judgment

and decision making; self awareness; and vision and action. Students grew in their confidence and skillsets throughout the trip, especially as they took on leadership roles. “My experience on the OSU/NOLS course dramatically improved my skills in leadership and communication for both career and personal life,” notes Gustafson.

Students and mentors alike deemed the program a resounding success. “We were elated to be in the gorgeous landscape of Olympic National Park, backpacking and practicing the skills needed for wilderness travel,” says Anzinger. Beyond that, the group members bonded over their shared valuation of a particular resource. “This shared value, held differently in each individual, led to interesting discussions of land management around the campfire,” she notes.

Reuter, who was interested in participating in order to get to know faculty from the western side of the state—as well as to pick up cooking and backcountry-living techniques from the NOLS instructors—saw an additional benefit: the way the experience affected the dynamic between CoF students and faculty. “I really enjoyed seeing the barriers between students and faculty being broken down so on the trail, we became more like equals,” Reuter says, echoing the sentiments of the first Forestry Dean, George Peavy, about the College camping trips of a century ago.

The course will be offered again in summer 2012. Feedback from the 2011 course will be used to build an even better experience for future participants.

*For more info, contact Kama Luukinen, Educational Programs Manager, Kama.Luukinen@oregonstate.edu.*

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## Congratulations to our Successful Graduate Students

Jesse Abrams, PhD in Forest Resources, “Restructuring of land and community in the remote rural West: the case of Wallowa County, Oregon”

Michelle Donaghy Cannon, PhD in Forest Science, “The use of burned forest by breeding birds following the Biscuit Fire in southwest Oregon”

Robin Ceurvorst, PhD in Forest Resources, “Methodological and managerial applications of the structural norm approach to social and facility capacity indicators in Hawai‘i’s coastal recreation areas”

Curtis Edson, PhD in Forest Resources, “Light detection and ranging (LiDAR): what we can and cannot see in the forest for the tree”

Kathleen Guillozet, PhD in Forest Resources, “Livelihoods and land use change in highland Ethiopia”

Niels Leuthold, PhD in Forest Science, “Short-term relationship of timber management and Pacific giant salamander populations, and the response of larval stream amphibian to predators under differing sediment levels”

Michael Reisner, PhD in Forest Resources, “Drivers of plant community dynamics in sagebrush steppe ecosystems : cattle grazing, heat and water stress”

Christoph Frieder Schauwecker, PhD in Wood Science, “Evaluation of various chemical treatments to prevent the abiotic deterioration of southern pine surfaces through outdoor screening trials”

Hendrik Stander, PhD in Forest Engineering, “Uncertainty, risk and forest management on the Tillamook State Forest: a case study”

Michael Vanderberg, PhD in Forest Engineering, “The role of strategic planning in the management of fire-prone western Oregon forests for maximizing terrestrial carbon stocks over a 100-year horizon”

Arvin Vista, PhD in Forest Resources, “Three essays on meta-analysis, benefit transfer, and recreation use valuation”

Todd A. Baker, MNR, Natural Resources, “Mill Creek Nature Center: a framework for sustainability”

Caitlin Bell, MS in Forest Resources, “Encounter norms of snorkelers and scuba divers at Molokini, Hawai‘i : methodological and managerial applications”

Michael Craven, MS in Forest Engineering “Assessment of airborne light detection and ranging (LiDAR) for use in common forest engineering geomatic applications”

Edward Cummings, MF in Forest Resources, Project title: “Inventorying carbon sequestration on family forestlands: Why and how?”

Tana Ellis, MS in Forest Science, “Diversity and abundance of birds across a hardwood gradient in early seral Douglas-fir plantations”

Jereme Frank, MS in Forest Engineering, “Mapping-grade GPS accuracy in second growth Douglas-fir forest”

Valerie Goodness, MNR, Natural Resources, “Traditional ecological knowledge in sustainable ecosystems: Integrating Indigenous and Western science and philosophy”

Andrew Hakso, MF in Forest Engineering, Project title: “A method to optimize the economic competitiveness of short-rotation forestry regimes”

Rachel Houtman, MS in Forest Resources, “Letting wildfires burn: modeling the change in future suppression costs as the result of a suppress versus a let-burn management choice”

Aaron Inman, MF in Forest Engineering, Project title: “Investigating potential subgrade strength recovery following wet winter conditions on a forest road”

Yonghwan Jang, MS in Wood Science, “Development and evaluation of a new formaldehyde-free wood adhesive from renewable materials for making interior plywood”

Stephanie Jenkins, MS in Forest Science, “Post-breeding habitat selection by songbirds in the headwaters of the Trask River, northwestern Oregon”

Michael Karas, MS in Wood Science and Materials Science, “Sustainable bio-composites for West Coast highways”

Kyler Kokenge, MS in Forest Engineering and Civil Engineering, “Opportunities and challenges for decision support systems in log truck scheduling and dispatching”

Natalie Rose Macias, MS in Wood Science, “Commercialization potential of viscoelastic thermal compressed (VTC) wood”

Lauren Magalska, MS in Forest Science, “Identifying site characteristics that explain variation in Douglas-fir site productivity and stem form”

Maureen McGlinchy, MS in Forest Science, “Simulated response of ecosystem processes to climate change in northern California and western Nevada”

Caitlin Moehrke, MS in Forest Science, “Beliefs and attitudes influence willingness to pay recreation fees at an urban forest: incorporating attitudes in contingent valuation methods”

Leif Mortenson, MS in Forest Science, “Spatial and ecological analysis of red fir decline in California using FIA data”

Amy Nathanson, MS in Forest Science, “Dead fuels and understory vegetation six years after a large mixed-severity wildfire in Southwest Oregon”

Anita M. Ragan, MS in Wood Science, “Groundwater and stormwater treatment at western wood preserving facilities: an analysis of current treatment methods”

Christian Schmidt, MS in Forest Engineering, “Spatially-explicit prediction of recoverable harvesting residue”

Chaylon Shuffield, MS in Forest Resources, “Overstory composition and stand structure shifts within inter-mixed ponderosa pine and lodgepole pine stands of the south-central Oregon pumice zone”



At 6'1" tall, Kirsten Tilleman often stood above basketball opponents and classmates alike. As a starting forward on the Oregon State University women's basketball team from 2008 to 2010, she helped the Beavers win more than 30 games. As an OSU Honors College student graduating *summa cum laude* with a bachelor's degree in natural resources, Tilleman stood taller than most of her classmates academically as well. But perhaps a greater achievement is that while juggling collegiate sports, scholastics, social activities, and work in Jeff McDonnell's Hillslope and Watershed Hydrology Lab (FERM), Tilleman managed to complete her bachelor's degree in just three years.

How did she do it? "Academics has always come first for me and Oregon State has been incredibly conducive to that," Tilleman says. "But I would not have been able to do this alone. I am incredibly grateful for my three years here and all of the support I have received from the College of Forestry, the Athletics Department, the Honors College, the university at large, and especially my family." And what was her motivation? "Not all degrees hold the same meaning; I wanted to be able to call myself an alumna of Oregon State," she says.

Tilleman came to OSU from Bozeman, Montana, where she was an elite athlete and exceptional student. During her high school years, Tilleman competed in soccer, track, and basketball, winning the Gatorade State Player of the Year award for Montana in *both* soccer and basketball for 2007. After visiting campus as a senior in high school, she chose OSU because of the friendly vibe and the opportunity OSU would provide in developing herself as a student, an athlete, and a person.

Initially part of exploratory studies, Tilleman was intrigued by the options available through the Natural Resources Program. "I'm fascinated by the interaction between people and the environment," she says. "The Human Dimensions option in the NR program described my interest perfectly. I didn't hesitate to declare it and I have never looked back." Tilleman explored this concept in greater depth through her thesis, "Our Natural Family: A study of young children and how we connect with nature." The thesis, written as a requirement of the OSU Honors College, was inspired both by her love of nature and the influence her mother had on Tilleman's education. Tilleman believes that environmental education begins

at an early age. “That is where we start creating our own views and how we relate to our environment,” she says.

The College of Forestry was proud to honor Tilleman with both the 2011 Paul & Neva Dunn Outstanding Senior Award and the Natural Resources Program Outstanding Student Award. “Kirsten is not only a conscientious and exemplary student, she is personable, articulate, and friendly, and quick to offer assistance to other students in academic as well as extracurricular matters,” said Dean Hal Salwasser at the 2011 awards ceremony in May. “She shows a level of maturity rarely seen at the undergraduate level and she is an excellent representative of the College of Forestry!”

Tilleman has begun graduate studies at the Bren School of Environmental Science & Management at University of California, Santa Barbara, where she is continuing not just her education but also her last two years of collegiate eligibility playing basketball. She is currently planning on blending two specializations for her graduate program of study—Conservation Planning and Water Resources Management—in a way that focuses on the information people can gain about land use from watersheds and the greater hydrologic cycle. “For example, we are quickly losing much of the world’s forests to issues like land use change and lack of land tenure,” Tilleman says. “Much of this is preventable, but there are huge barriers to overcome. We must use the forests and other undeveloped landscapes we have left wisely.”



Kirsten Tilleman (NR, 2011) in Peavy Courtyard with tipping buckets used to keep track of total rain amounts for comparison to the water samples collected for the McDonnell Hillslope and Watershed Hydrology Lab. Photo credit: Danielle White (WST, 2011).

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## 2011 College of Forestry Awards

**Keynote Speaker** Andrea Thorpe, NR, '98

**Outstanding Alumni Awards for 2011**

Steve Kelley, FP, '79

Paige Fischer, MA/MS, '03; PhD, '07

Lee Miller, FE, '80

**Paul & Neva Dunn Outstanding Senior Award**

Kirsten Tilleman, NR

**Harold Bowerman Leadership Awards**

Brad Hamel, FM, and Ryan Bronson, FOM

**Dean's Award for Outstanding Service**

Jesse Narog, FE

**Kelly Axe Award** Justin Thomas, FE

**Pack Essay Award**

Danielle White, WST, for *Buffalo Road*

Chet Miller, FE, for *The Cry of Timber!*

**Photo of the Year Oregon Gardens**

Ashley Flint, FE

**Xi Sigma Pi “Julie Kliewer” Excellence in Mentoring Award** Kama Luukinen (FERM)

**Aufderheide Excellence in Teaching Award**

Robin Rose (FERM)

**Outstanding Student Awards, by program**

Forest Engineering: Jesse Narog

Forest Management: Mathew Hemshorn

Forest Operations Management: Ryan Bronson

Natural Resources: Kirsten Tilleman

Tourism & Outdoor: Leadership Kelly Pence

Wood Science & Technology: Jeffery Vaughn

**2011 Phi Kappa Phi Initiation**

Initiates: Garrett Duyck (NR); Tasha Livingstone (FM); Jake Thompson (FOM); Larae Guillory (FM); Jeramie Jones (NR Distance); Thomas Lord (FE/CE); Sally Murray (NR); Mike Shettles (FM); Sean Ellis (NR Distance); Kirsten Tilleman (NR); and Thomas Maness, FERM Department Head.

Melissa Stone (FE/CE) delivered the undergraduate student address and was introduced by Claire Rogan (FE/CE). Kirsten Tilleman received a graduate fellowship from the local chapter and was the single OSU candidate advanced into competition for a national fellowship.

# Ford Gift creates Endowed Deanship in Forestry at OSU



Allyn and Cheryl Ford.

A \$5 million commitment from the head of Roseburg Forest Products and his wife has created an endowment for the College of Forestry dean's position at Oregon State University. Named in honor of the donors, the inaugural Cheryl Ramberg and Allyn C. Ford Deanship of Forestry will be held by Hal Salwasser.

"For more than a century, the College of Forestry has been at the forefront of OSU's efforts to produce research and graduates that enhance the state of Oregon," said OSU President Ed Ray. "Today it is considered among the best forestry programs in the world, and it is a critical part of the university's focus on sustainable earth ecosystems and economic growth.

"This visionary gift from Allyn and Cheryl Ford illustrates that in tough economic times smart people redouble efforts to preserve the path to excellence," Ray said. "Their investment assures that the college will have outstanding leadership for the next century and beyond."

A member of the college's board of visitors, Allyn Ford became president and CEO of Roseburg Forest Products in 1997. The company was founded by his father, Ken Ford, in 1936 and is now one of the largest family-held wood products corporations in the United States, and among the nation's largest timberland owners.

"At Roseburg Forest Products we have seen very clearly how important the College of Forestry is for the future of our industry," Ford said. "Faculty research and innovation help us stay competitive in the global marketplace. It's also essential that the college continue to provide the industry with graduates who understand these complex systems. We need leaders who can offer sustainable solutions that support the future health of our state and our world."

A native of southern Oregon and secretary for the Ramberg Glass Company board in Roseburg, Cheryl Ramberg-Ford is a University of Oregon Foundation trustee and former president of the UO Alumni Association. She serves on the boards of the Jordan Schnitzer Museum of Art and Wildlife Safari and is a member of the Tree of Hope Committee for Mercy Medical Center in Roseburg. Allyn Ford serves on the Oregon State Board of Higher Education, is a director of the Doernbecher Hospital Foundation and the World Forestry Center, and chairs the board of Umpqua Bank.

"This is a family that is profoundly committed to the state of Oregon and to higher education," said Mike Goodwin, president and CEO of the OSU Foundation. "We are deeply grateful for the Fords' support as OSU advances to the next level as a major international research university."

Allyn and Cheryl Ford are both highly involved with the Ford Family Foundation, which helps to fund OSU programs and outreach in the College of Public Health and Human Sciences. At any one time the foundation also provides scholarship support for more than 500 students in Oregon post-secondary schools.

"The Ford family and Roseburg Forest Products are deeply rooted in rural Oregon and they have had a tremendous impact on rural communities," said OSU Provost and Executive Vice President Sabah Randhawa. "This deanship gift extends that legacy in a powerful way. Supporting College of Forestry leadership is a long-term investment not only in sustainable forests but in sustainable rural communities."

The Fords' gift leveraged the OSU Provost's Faculty Match Program, an initiative designed to encourage donor investments in endowed faculty positions. Over five years the match on the Fords' gift will provide an additional \$450,000 for College of Forestry programs.

## Starkers receive top honors from OSU Alumni Association

Bond and Barte Starker, co-owners of Corvallis-based Starker Forests Inc., received the OSUAA's highest award in recognition of their work to keep alive a family tradition of responsible land management, ethical business leadership and service to the university, the community and the state. They received the E.B. Lemon Alumni Award, named for the late, well-known student, registrar, dean of administration and volunteer at OSU. The association bestowed its awards in a ceremony titled "In Honored Footsteps" April 29 at the CH2M HILL Alumni Center. Retired Oregon Stater editor George Edmonston, Jr. was master of ceremonies, and President Ed Ray and OSUAA President Penny Atkins '79 presented the awards.

Bond Starker is a 1969 graduate of the College of Forestry. He is president, chairman and co-owner of Starker Forests, and has numerous civic and industry affiliations, including the Corvallis-Benton Chamber Coalition, the Old Mill Center for Children and Families, the Oregon Forest Industries Council, and the Oregon Tree Farm Committee. He has served on many OSU committees and boards and is currently a member of the OSU Foundation Board of Trustees.

Barte Starker graduated from the College of Forestry in 1972, and is executive vice president,



Bond and Barte Starker

secretary and co-owner of Starker Forests. He has volunteered with the Benton County Fair Foundation, the Good Samaritan Hospital Foundation, the Boys and Girls Club of Corvallis, the Oregon Forest Resources Institute, and the Oregon Board of Forestry and dozens of other organizations. He is currently serving as a member of the College of Forestry Board of Visitors.

Their late grandfather, T.J. Starker, a 1910 graduate of OSU, won the first E.B. Lemon Alumni Award in 1981, and an aunt, Jean Starker Roth, OSU Class of 1942, won it in 2001. She was in attendance.



### College of Forestry PhD, Dr. William J. Lange, receives 2011 Alumni Fellows Award

On November 4, the Oregon State University Alumni Association recognized Dr. William J. Lange as one of six 2011 Alumni Fellows, an award honoring OSU alumni who make a difference.

Lange earned a PhD in Natural Resource Economics from OSU in 1983, working with Darius Adams as his major professor. He has gone on to serve with distinction in numerous private industry and government positions and is currently the Director and Team Leader for Policy Analysis for the U.S. Forest Service in Washington, DC.

In nominating Lange for the award, College of Forestry Dean Hal Salwasser said Lange's policy group provides thoughtful analysis for national policy decisions related to management of public and private forestlands across the country.

Lange's national policy analysis unit has included many faculty members on sabbatical and student interns from natural resources programs across the country. He provides them with six months of experience of working closely with policy leaders in Washington, DC, attending Congressional hearings, visiting major government agencies and non-government organizations, and becoming proficient writers in the process.

"Dr. Lange is an outstanding representative of the varied contributions College of Forestry graduates make to society," said Salwasser.

## 2011 Society of American Foresters Awards

Five people connected with the College of Forestry received awards from the Society of American Foresters (SAF) this year. SAF is the national scientific and educational organization representing the forestry profession in the United States. Founded in 1900 by Gifford Pinchot, it is the largest professional society for foresters in the world.

### National SAF

**Barrington-Moore Memorial Award:** Steven H. Strauss, University Distinguished Professor (FES) for outstanding achievement in biological research leading to the advancement of forestry.

### Oregon SAF

**Forester of the Year:** Glenn Ahrens, Clatsop and Tillamook County OSU Extension Forester, for contributing to both the profession and his community.

**Lifetime Achievement Award:** Dan Green (FM, '69), Clackamas County Forester, in recognition of his lifetime contribution to the forestry profession.

**Lifetime Achievement Award:** Tom Ortman (MF, '77), retired Forest Service and former Clackamas County Forester, in recognition of his lifetime contribution to the forestry profession.

**Research Award:** Arne Skaugset (MS, '80; PhD, '97), Associate Professor (FERM), in recognition of his leadership in both the science and the practice of forestry as Director of the Watersheds Research Cooperative in the College of Forestry at OSU.

## In Memoriam

### Theodore (Ted) S. Ellingsen

February 8, 1924 – April 6, 2011

Ted was the youngest son of Edwin P. and Pearl (Sweet) Ellingsen. Upon graduation from Coquille High School in 1942 Ted joined the Coast Guard and served the duration of the war on the USS Pocatelto patrolling the North Pacific. After his discharge, he attended Oregon State, earning a BS degree in Forest Management in 1950. This launched an outstanding career in forestry where Ted became a highly respected timber cruiser in our region. He worked for the timber division of Menasha Corporation in North Bend until 1955, then was Port Orford Plywood's timber manager until 1961, after which he returned to Menasha Corporation. In 1969 Ted was hired to manage the Coos County Forest. The forest was not being actively managed and presented a great opportunity to benefit Coos County. He created a sustained yield forestry plan and a forest road system that still serves the county today.

In 1982 the Oregon Society of American Foresters named him the Forester of the Year. His concern for wildlife earned him an award for Outstanding Contribution to Non-game Wildlife Management by the Oregon Department of Fish and Wildlife in 1977.

Everyone who knew Ted was touched by his love of life and the outdoors, his kindness and great sense of humor, and his musical and artistic talents. In 1983 he was instrumental in raising funds for the Coos Art Museum's move into its present location. Ted also served as an advisor in the early days of the South Slough Sanctuary.

His family was always his greatest joy. Ted is survived by his wife of 58 years, Myrle (Gorbutt) Ellingsen and sons and daughters-in-law Bob and Debby Ellingsen, West Linn, OR, Ed and Lynda Ellingsen, Coos Bay, Dean and Julie Ellingsen, Pleasanton, CA, eight grandchildren and one great-grandchild. The family also considers Hans Christian Petersen-Minke an "adopted" son. Hans was an AFS exchange student from Denmark who stayed with the family for the 1973-74 school year.

Donations in Ted's memory may be made to the Coos County Historical Society, 1220 Sherman Avenue, North Bend, OR 97459, Coos Art Museum, 235 Anderson Avenue, Coos Bay, OR 97420, or Emmanuel Episcopal Church, PO Box 1028, Coos Bay, OR 97420.

### Paul Nelson Goodmonson

August 27, 1920 – August 16, 2011

Paul was one of seven children born to Thomas and Beatrice Goodmonson in Bemidji, MN. He studied forestry at the University of Minnesota. After graduation he underwent an intensive naval officer training program at Harvard University, then served on an aircraft carrier in the South Pacific Theater. He married Margaret (Peg) Beasom in 1944, a marriage that lasted 54 years, until her death in 1997. Paul and Peg loved to travel, and almost every year took a trip to some part of the world, including a favorite around-the-world adventure. Three wonderful children came from this marriage: Margaret, Paul Jr., and Peter.

Following the war, his first employment was with Crown-Zellerbach in Vernonia, followed by a move to Corvallis to become an Extension Service forester at Oregon State. While there, he and Hal Schudel formed a partnership to create Holiday Tree Farms; they were the first to grow plantation trees in volume. Holiday trees were a success from the first harvest, and were soon marketed across the U.S. After a 17-year period, Paul sold his share of Holiday Tree Farms to Hal's sons, and it has since become the world's largest shipper of plantation Christmas trees. Dozens of these trees helped lend a festive air to the OSU College of Forestry's Centennial Celebration in 2006, thanks to the generosity of Holiday Tree Farms.

Paul married Jessie Brackett in 1998, and had a loving marriage until Paul's death. Paul is survived by his loving wife, Jessie, of the Salishan area; his sister Becky Sewell of Tucson, AZ; his daughter and her husband, Margaret and Joe Claire of Dundee; his son and wife, Sharon and Paul Goodmonson Jr. of Corvallis; and son and wife, Peter and Sari Goodmonson of Bend. He is also survived by three grandchildren, two great-granddaughters, and numerous nieces and nephews.

Donations in Paul's memory may be made to the following: the Oregon Community Foundation Goodmonson Family Fund, 1221 S.W. Yamhill St., Suite 100, Portland, OR 97205; the Foundation Office, Samaritan North Lincoln Hospital, 3048 N.E. 28th St., Lincoln City, OR 97367; or the Benton County Historical Society, P.O. Box 35, Philomath, OR 97370.

Excerpted from the *Corvallis Gazette-Times*, August 23, 2011 and used with permission.

### Samuel C. Wheeler

March 7, 1928 – May 23, 2011

Sam was born in Portland into a family of Oregon lumbermen. His grandfather was namesake to the town of Wheeler, where he had a mill from 1895 to 1920; his father, Coleman H. Wheeler, helped create Willamette Industries.

Sam attended the Gabel School and graduated from Lincoln High School in 1945. He enrolled at Cal Tech at age 16, later transferring to Oregon State, where he graduated in 1950 with a BS in Forest Management. He served as a second lieutenant in the U.S. Army during the Korean Conflict and as an instructor with the Corps of Engineers at Fort Belvoir, VA.

He began in the lumber business as a log buyer for the Western Veneer Plywood Co., was a plywood plant manager and then VP of production for Santiam Lumber, and then VP of Southern Production at Willamette Industries. He later was president of Barclay Logging in Sisters, Wheeler Lumber in Sweet Home, and Wheeler Manufacturing in Toledo.

He spoke publicly of his battle with alcoholism and in 2000 received the DePaul Freedom Award for his advocacy. He was the primary catalyst of the Wheeler Foundation, which has given generously to numerous causes throughout the Northwest. He was past President of the Oregon State University Foundation Board of Trustees; Director of the Cascade Pacific Council of Boy Scouts; served on the boards of numerous organizations, such as the World Forestry Center, Providence St. Vincent Medical Foundation, Oregon Historical Society, Keep Oregon Green, the Columbia Maritime Museum, Lewis & Clark College, Catlin Gabel School, Chamber Music NW;

An active and avid outdoorsman, Sam enjoyed sharing hiking and travel adventures with friends and family. He saw magnificence in the environment and had a special fondness for the Gorge. He also saw beauty in different cultures and enjoyed traveling the globe with his longtime companion, Mitzi Ellis.

Sam is survived by his sons, John, Chuck, Ted and Tom; grandchildren, Jack, Sarah, Coleman, Sam, Ruby and Quinnlan; daughters-in-law, La Rhonda, Lori, Katrina and Jill; and first daughter-in-law, Ginny. Sam's only sibling and dearly loved brother, Coleman Jr., passed away in 1982.

Donations in Sam's memory may be made to DePaul Treatment Centers, PO Box 3007 Portland, 97208.