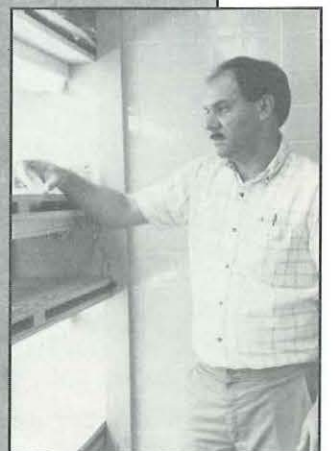
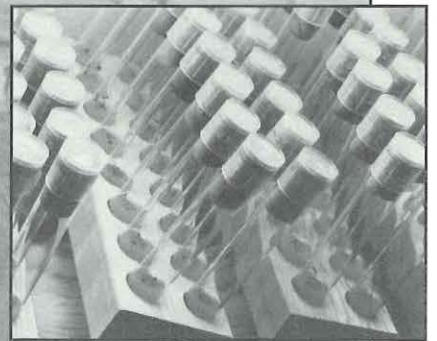
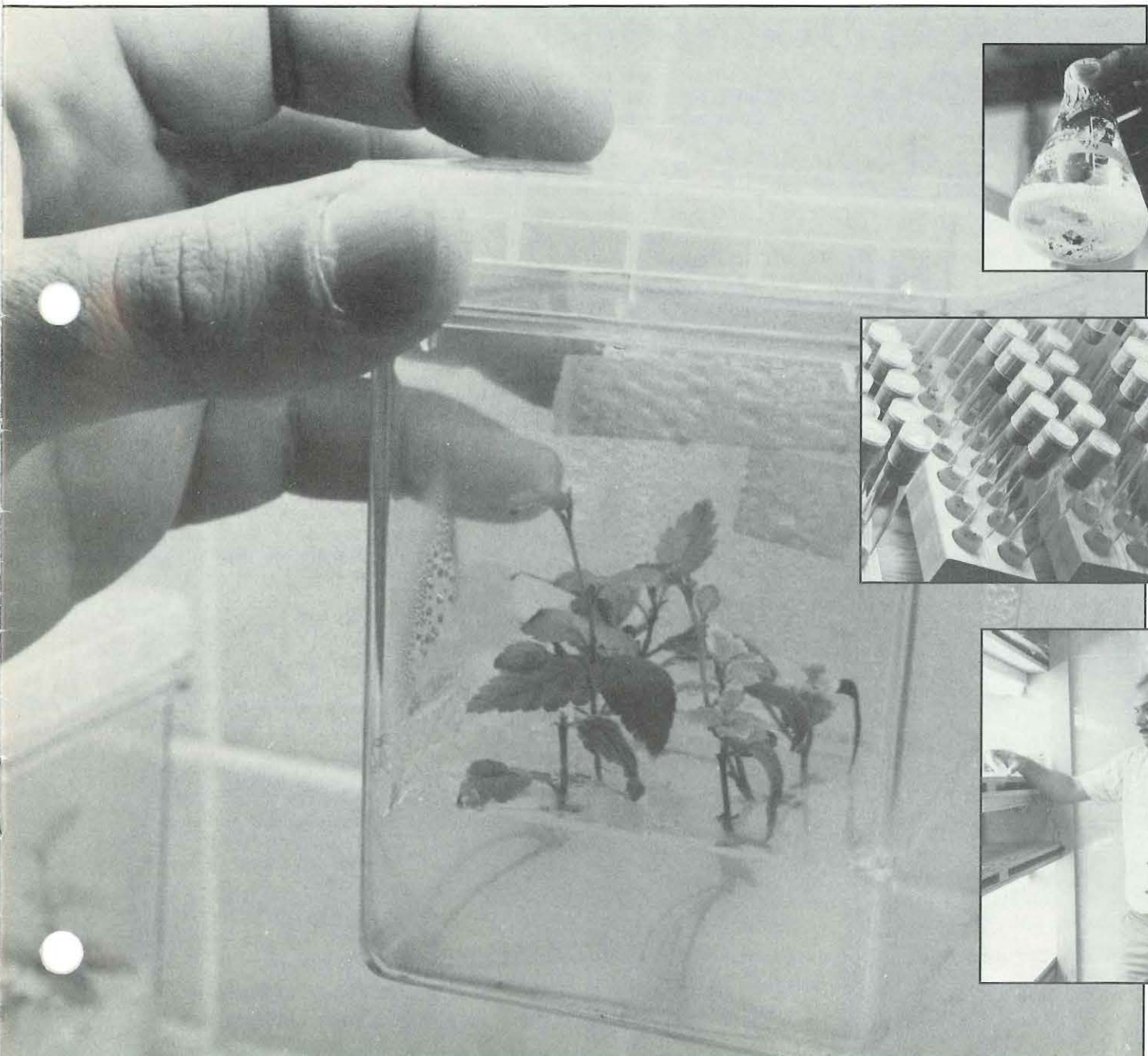


focus on forestry

at Oregon State University

Fall 1988



Front cover: "Test tube trees": genetic engineering research by graduate student Barry Goldfarb, thanks to the Dorothy D. Hoener scholarship program. Story on page 8.



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Fall 1988
Volume 1 No. 3

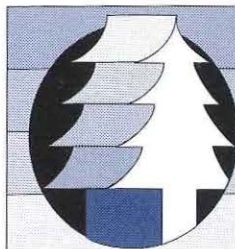
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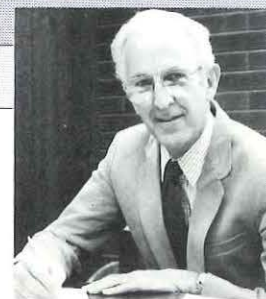
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from the Dean



I continue to be impressed by how gifts from alumni and friends "make the difference" for individual students and faculty. For the College, they truly provide the edge of excellence. Let me share several examples.

OSU forestry students study in the nation's finest college forest laboratories—McDonald, Dunn, and Blodgett Forests. These bear the names of those whose gifts and actions assured OSU excellence in field labs.

Recently I knew two freshmen who were concerned about their ability to succeed in school. One had a serious learning disability; the other had an essential afternoon job. But both became successful students. The difference was self-paced courses and the Self Learning Center, both initiated with a gift from the Louis and Maude Hill Family.

Do scholarships make a difference? This year Jenny Ablan will be receiving the \$3,000 "Helping Hand Scholarship," an annual gift of an anonymous alum in appreciation for the scholarship that "made the difference" for him in the 1970s.

Edgar Hoener's devotion to his wife, Dorothy, and respect for his friend, George Cornwall, will be continuously expressed through the generous support that forestry students receive through the Dorothy D. Hoener Memorial Endowment. Through the endowment, outstanding students are attracted to OSU, they visit sites of exceptional forestry innovation, and participate in teaching-learning projects—the excellence factor for several students every year.

Arthur Lundeen, class of '17, a successful forestry alumnus, encouraged his son Bob to develop his communication skills. In memory and appreciation of his father, Bob provided a gift to the College for a new Communications Lab with state-of-the-art videotaping equipment. His gift will enable generations of future forestry students to benefit from his father's insights.

On behalf of the Forestry faculty and students who have been provided the edge of excellence through such gifts, large and small, thanks to you who have shared with us. Your gifts do "make the difference."

A personal closing word: this past year the College lost two who gave much to forestry at Oregon State University—and to me personally. The contributions of former Dean Paul Dunn and former professor Bill Davies are greatly appreciated; they endure in the life of the College.

Carl Stoltenberg

Carl Stoltenberg
Dean, College of Forestry
Oregon State University

The College of Forestry said goodbye to a faithful and beloved friend last January. Former Dean of the School of Forestry, Paul M. Dunn, died in Corvallis on Jan. 8, 1988 at age 89. Paul was a national leader in forestry, serving as president of the Society of American Foresters, the American Forestry Association, the Forest History Society and the Southern Pulpwood Conservation Association.

Less well known are the many contributions Paul made to the College of Forestry- contributions which have made a substantial and lasting difference to the College and the students. Through Paul's efforts, the College acquired 6,200 acres of forest land for research and teaching, a forest tract that now bears his name.

Paul was committed to excellence in education and backed that commitment with his time and money. He served as a trustee of the OSU Foundation and was a member of the President's Club. Paul was instrumental in helping the College obtain support from the Northwest Area Foundation to start the unique Forestry Media Center/Self Learning Center complex. He also provided money for faculty development to improve teaching programs, and for South Santiam scholarships. He served as chairman of the South Santiam Advisory Committee for many years.

Forestry students have directly benefited from Paul's philanthropy. In 1964 Paul established the Paul M. Dunn Outstanding Senior Award as a means of encouraging and recognizing leadership among OSU forestry students. Many forestry leaders in the region were once recipients of this award.

Following Paul's death, many Dunn award recipients wrote Neva, Paul's widow, expressing their condolences and appreciation for Paul's contributions. Several called Dunn a "source of inspiration and motivation," and said "I will be very happy if I can contribute to the forestry profession even a small part of that which Mr. Dunn accomplished." Others said, "it will always be a great honor to have my name associated with Paul's by being

the recipient of his award."

Dean Stoltenberg, a long-time friend and admirer of Paul Dunn, said, "Paul's international and national leadership in forestry, his dedication to research and education, his warmth and integrity, and his personal commitment to the College of Forestry have made a real difference to our profession, our College and to students. He leaves a legacy in which we can all take pride." ■

College still benefits from leadership of former Dean Paul M. Dunn



Many students throughout the years have benefited from the philanthropy of Paul M. Dunn. Here he presents the Paul M. Dunn awarded to student Tim Donovan in 1970. Dunn died last January at age 89.

Exension Forest Products Specialist Terry Brown has been a major force in revolutionizing an important aspect of lumber manufacturing in the U.S. and Canada. Terry is renowned for his work with sawmills throughout North America to improve efficiency and quality of lumber manufacturing - a concept he calls "quality control." His book, *Quality*

employ quality control specialists who work solely to improve efficiency and sawing accuracy.

Terry occasionally works with individual Oregon sawmill managers to improve one or more aspects of their operations as a means of gathering information and testing techniques for his extension programs. His primary duty is to provide process improvement

dous variability in each log. With all the variables in lumber manufacturing, I saw how Extension programs for managers could have a real impact on all the processes in the mill."

To better understand the business and operational aspects of lumber manufacturing, he made special efforts to learn about mill operations during his first

Extension Specialist Terry Brown believes in positive thinking

Control in Lumber Manufacturing, published in 1982, has become a standard reference in the field.

"Quality control really means maximizing the value of a log or lumber product through all phases of manufacturing," explains Terry. "Quality control means that a mill uses the log more efficiently; more of the log ends up in high-quality products. This can usually be accomplished while increasing mill production."

The concept of quality control has drastically altered lumber manufacturing, he says. Mill managers and their employees now have a better 'consciousness of quality control' and it has saved their companies millions of dollars over the past 10-12 years. Many more mills now

training to the forest products industry by conducting short courses, workshops and producing and distributing publications. Most of his contact with industry members is accomplished in group settings, such as at his Lumber Quality Control Short Course, the annual North America Wholesale Lumber Association School held each spring, sawing technology workshops, and several others.

Terry earned a bachelor's degree from Colorado State University in Wood Science and Technology in 1970, and returned to CSU after several years as an Air Force officer to earn a PhD in 1975. Although his doctoral thesis involved structural particleboard, most of his work in Oregon has involved lumber.

"I saw a lot of opportunity in sawmills because of the tremen-

few years as an Extension Specialist by visiting mills and 'asking a lot of questions.' In 1979, he took a six month leave from his job to work as a salaried employee in two mills of a large forest products company. His reward was improved knowledge and better credibility with manufacturers, he says.

"Terry's technical background in understanding industrial quality control and his ability to use teaching skills with forest products industry people are really his specialties," says Forest Products Department Head Bob Ethington. "He has a unique ability to work with all industry personnel- from chief executives to hourly employees."

"The greatest job satisfaction for me is working with the industry people and getting the feedback

Forest Products Extension Specialist Terry Brown (right) stresses quality control in lumber manufacturing as he works with Oregon mill managers. His work has led to increased awareness about efficiency in Oregon mills.



that they are really benefiting from the work we do. I have always felt it important to leave my mark by helping someone, and I feel a degree of satisfaction from the contributions so far," he says.

In addition to his Extension duties, Terry teaches a Forest Products undergraduate course each spring called "Mechanical Conversion." He emphasizes not only technical aspects of lumber manufacturing, but personal and professional growth with his students as well. He requires reading assignments on goal setting and positive growth- topics that students haven't traditionally had in forestry courses.

Because of his contributions to the Forest Products industry, Terry was presented the prestigious "Forest Industries Award of Excellence" in 1984 from *Forest Industries* magazine. The award was based on input from industry

personnel. It was given in recognition of the contributions of his quality control training programs and the impact they have had on the lumber manufacturing industry. ■

"Terry Brown has an upbeat, positive attitude that radiates when you talk to him"

The College of Forestry thanks the following donors for their generous contribution to the College of Forestry and OSU during the past year.

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Hoener Scholarship

The Hoener Fund provides scholarships for outstanding students in the College of Forestry in memory of Dorothy D. Hoener, former wife of Edgar P. Hoener, a long-time publisher in the forestry industry. The scholarship fund is one of 38 offered through the College of Forestry each year. Curt Rogers and Barry Goldfarb are two of many students who benefit from this scholarship.

Curt Rogers: outstanding undergraduate

Curt Rogers, a forest management senior, is one of 15 College of Forestry students to receive the Dorothy D. Hoener scholarship for 1988-89. His second year at Oregon State University, the 26-year-old California native has demonstrated outstanding scholarship and leadership in the College of Forestry. The scholarship provides Curt with \$3,000 to defray tuition and housing costs for the school year.

In addition to his studies, Curt works at the College of Forestry's McDonald Forest where he is involved in pre-commercial thinning, tree planting inspection, reforestation stocking surveys, and forest inventory. He also works part-time at the College's Self Learning Center.

Curt's interest in forestry began as a result of a seasonal fire fighter job with the Oregon State Department of Forestry in Astoria where he worked for the last three seasons. Although he had taken college courses after graduating from high school in 1980, he still hadn't settled on a major that suited his interests - until he discovered forestry.

"I want to be involved in something productive and tangible, where I can see the results. If I wanted a job that just paid a lot of money and where I'd just sit at a desk all day, I guess I would have chosen another field," he says.



*Hoener scholarship recipient
Curt Rogers*

Last summer Curt was accepted into the USDA Forest Service Cooperative Education Program at the Colville National Forest in northeastern Washington. He worked on the Forest last summer in silviculture, helping on the tree improvement program, and will work again there next spring and summer before completing his degree. The Cooperative Education Program will give him valuable experience and a better chance at a permanent Forest Service job when he finishes school.

Curt served as co-manager of the student chapter Society of American Foresters Christmas tree farm in 1987-88. He is also an officer of Xi Sigma Pi and belongs to Phi Kappa Phi, the forestry and OSU honor societies. He is active in Forestry Club and the Society of American Foresters student chapter.

Barry Goldfarb: dedicated researcher, outstanding graduate student

Graduate Hoener fellowship recipient Barry Goldfarb's academic achievements and doctoral work in the molecular biology of forest trees represents a worthy example of what the Dorothy D. Hoener scholarship program was established to support and encourage. The Forest Science Department PhD candidate, both a dedicated researcher and an outstanding student, is involved in research to help develop long-range techniques for improving the forest health and productivity.

His work is what he calls "genetic engineering," a technology that, until recently, was limited to non-woody agricultural plants. He is working toward bridging a gap between what is known about genetic manipulation of agricultural crops and what can be done with trees.

Barry is working on one piece of the scientific puzzle to determine how to insert specific genes in single tree cells and regenerate plants through tissue culture- genes which will give trees desirable traits such as resistance to specific insects and diseases. Although most of his work is conducted at the microscopic level, the perspective that guides him is much broader.

"The bottom line of this research is increased forest productivity which is a broad societal concern," he explains. "Forests that are more productive will help offset the problem of less and less forest land available for timber production."

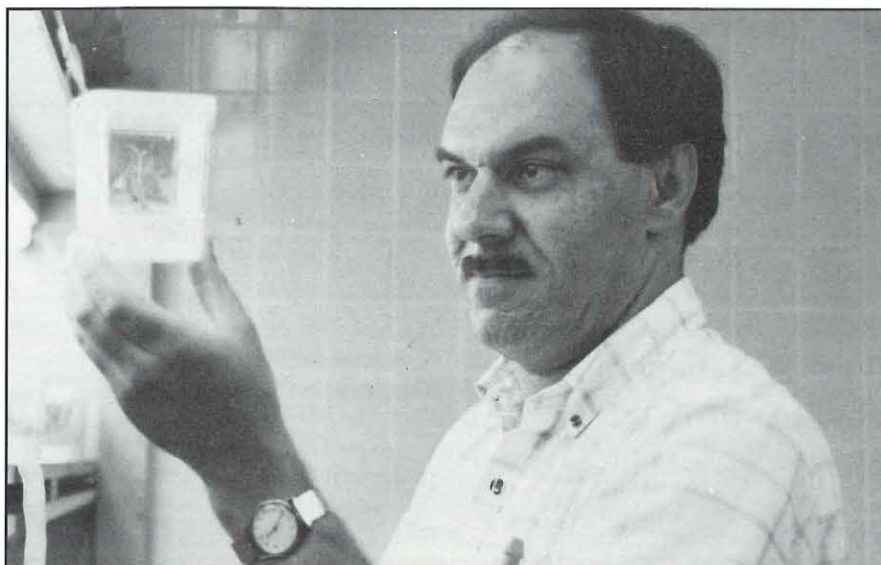
Graduate Hoener recipient Barry Goldfarb

Down the road, foresters will be able to purchase seed and seedlings that will give them the kind of traits they want- not just the basic characteristics we see now in seedlings such as fast height growth- but additional traits such as resistance to specific insects such as gypsy moth, spruce budworm, or tussock moth, he explains.

"The real results of this kind of research won't really show up in the field for a number of years— my work is really one piece in a long line of research that will take some years to make a major change in forest productivity levels," he says. "Even though I may not see the results directly, I get a lot of rewards from the individual break-throughs and accomplishments. I realize that my work is important for laying the groundwork for the future."

Originally from New York, Barry came to Oregon in 1975 and began working in southern Oregon as a pre-commercial thinning contractor for Weyerhaeuser Co. By 1980 he was sole owner of a forestry contracting company which conducted timber and stocking inventories for the USDA Forest Service. In 1983 with an eye on a career in forestry, Barry received a bachelor's degree in biology from Southern Oregon State College followed by a master's degree from OSU in Botany and Plant Pathology emphasizing forest pathology. He is now "hip deep" into his PhD program, and expects to complete his research by 1989.

Barry is thankful for the Hoener fellowship, since the financial support has allowed him to conduct his graduate program while raising a family. "As parents of two boys, my wife and I are extremely grateful for the honor and financial support of the Hoener fellowship," he says. ■



The following undergraduate scholarships are offered by the College of Forestry through donations from friends of the College. Collectively, students received \$79,250 for the 1988-89 school year.

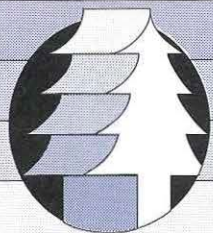
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The following fellowships are offered by the College of Forestry for graduate students through donations from friends of the College. Over \$57,800 was allocated to students for the 1988-89 school year.

- John Lind Ching Memorial Fellowship
- J. Richard Dilworth Graduate Award in Forestry
- Dorothy D. Hoener Memorial Fund
- Mary J. L. McDonald Fellowships in Forestry
- Alfred W. Moltke Memorial Fellowship
- South Santiam Educational and Research Project Fellowship
- Lucille D. and Faye H. Stewart Fellowship



forestry currents

Forest Recreation/ Forest Management merge, Brown be- comes Associate Dean

The departments of Forest Management and Forest Recreation Resources in the College of Forestry will merge on Jan. 1, 1989, forming a new department called Forest Resource Management. The Forest Management and Forest Recreation Resources undergraduate curricula and majors will continue as before.

Dean Carl Stoltenberg announced the change in July, stating that "successful forest resource managers of the future will be those who are managers of resources and people,



**Perry Brown, new Associate
Dean**

capable of integrating their knowledge of both with an understanding of markets, costs, efficiency and business methods. We can strengthen our undergraduate programs by combining the expertise and insights of the two faculties."

A head for the newly established department will be named this fall. Forest Recreation Management Department head Perry Brown was promoted to Associate Dean for Instruction beginning July 1, replacing John Beuter who resigned last January.

Jim Boyle, head of the Forest Management Department stepped down from his position to resume research and teaching duties.

Dean Stoltenberg pre- sides at national SAF convention, New York

College of Forestry Dean Carl Stoltenberg, 1988 national president of the Society of American Foresters, continues his year-long responsibilities at the national SAF convention in Rochester, N.Y. this fall. As president he will preside over the three-day meeting which expects to draw 1,600 participants nationally.

OSU Remote sensing lab housed at College of Forestry

The College of Forestry is the new home for OSU's Environmental Remote Sensing Applications Laboratory (ERSAL). Although the laboratory has been on campus since 1973, it was moved last spring from Withycombe Hall to Peavy Hall and was placed under the Forest Management Department.

ERSAL was established jointly by the National Aeronautics and Space Administration (NASA) and Oregon

State University for research in the rapidly developing field of remote sensing. It provides a center of research for the College of Forestry as well as for federal, state and private organizations which use data obtained through satellite and other remote sensing instruments to study vegetation and soil systems. OSU is among a small group of universities around the country selected to conduct remote sensing research.

ERSAL recently received a three-year NASA grant to focus on landscape characterizations, as well as to study deer, elk, spotted owl, and other wildlife species' habitats using newly defined environmental analysis methods in landscape ecology and new spatial data management techniques involving Geographic Information Systems (GIS) and satellite remote sensing.

ERSAL Director Bill Ripple co-teaches a "Data Management Systems for Foresters" course (F 390). He is also involved in co-teaching Geographic Information System (GIS) short courses through the College's Continuing Education Program. ERSAL's address is 108 Peavy Hall, Oregon State University, Corvallis 97331-5714. The phone number is (503) 754-3056.

Forestry in McDonald Forest is a blast!

Habitat for cavity-nesting birds and other wildlife has been improved on the College of Forestry's McDonald Forest because of an "explosive" new technique conducted last spring.

Dozens of large, old Douglas-fir trees which have been left on harvested sites to benefit wildlife have had their tops blown out with dynamite. The tech-

nique helps speed the process of decaying to make the trees suitable for cavity-nesting birds and small mammals than nature does alone, explains McDonald Forest Manager Jeff Garver.

The technique is not common in western Oregon forests because of the expense, explains Garver, and the benefits to wildlife are not yet fully known. The tree blasting is part of a demonstration to weigh costs and benefits of the technique. The information will later be available to land managers.



Tree tops at McDonald Forest are exploded to improve wildlife habitat

Contractors experienced in both tree climbing and use of explosives took about an hour to prepare each tree for blasting. Each tree was embedded with about 40 sticks of dynamite, depending on size, at a height of 20-40 feet. Each explosion sent out a blast heard for miles and caused a jagged-edged tree top.

Gene research with France

The College of Forestry Department of Forest Science has signed an agreement for cooperative research with the main agricultural and forestry research organization of the French government, the Institut National de la Recherche Agronomique. The first university to have an agreement with France involving forestry research, the OSU College of Forestry will cooperate in two areas: gene research and biotechnology of forest species; and genetic tree improvement. The agreement is expected to lead to increased efficiency of U.S./France research on the management of France's extensive Douglas-fir plantations. The research will involve the exchange of scientists during the next two years, including Drs. Joe Zaerr, Steve Strauss, and Tom Adams from the Department of Forest Science.

Tony Polensek gets wood science award

Forest Products faculty member Tony Polensek received the annual Society of Wood Science and Technology's George Mara award at their annual meeting on June 19 in Quebec City. The international organization presented the award to recognize Polensek and graduate student Les Groom for their paper "Nondestructive Prediction of Load-Deflection Relations for Lumber." The award is presented annually to outstanding researchers in wood science and technology.

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O SU College of Forestry alumnus Jim Overbay put one more feather on his already-distinguished professional cap when he became Deputy Chief for the USDA Forest Service last spring. In his new Washington D. C. position he is responsible for management of the immense 195-million acre national forest system.

The 1956 Forest Management graduate has had a long, distinguished Forest Service career. After leaving OSU, he worked on the Ochoco, Rogue River and Siuslaw



He identified two new program thrusts the Forest Service is launching- a new recreation strategy and a revised wildlife program.

"We are working toward more of a balance in our programs," he adds. "This is in response to what the public is demanding."

Overbay identifies communications and organizational skills as crucial for new forestry graduates, and often advises new graduates to develop these skills to be competitive in

Alumni Fellow Jim Overbay is new USFS National Deputy Chief

National Forests in Oregon in a variety of positions, including two district ranger assignments. Over the next seventeen years, he was Timber Staff Officer on the Mt. Hood National Forest, Forest Supervisor on the Black Hills National Forest, Staff Assistant to the Deputy Chief of the National Forest System, Deputy Regional Forester for Resources in Albuquerque, New Mexico, and finally, Regional Forester for the Northern Region at Missoula, Montana before accepting his current position. Thankful to have the breadth of experience in field positions at several locations

around the country, Overbay believes his broad background will serve him well in the challenging months ahead.

"Some exciting things are happening here with the Forest Service now," Overbay says. "I know my past job experience helps me because I have seen a lot of what happens on the ground."

His challenge now is to oversee the completion of the remaining national forest plans, and then seek resolutions for the controversies raised through those plans, he says.

their search for jobs.

Overbay has been a member of the Forestry Alumni Board and still maintains close contact with the College of Forestry. Last spring he was named one of three OSU Alumni Fellows and will visit campus during Homecoming Week Oct. 26-29. The fellows program was established to honor distinguished alumni and give the university community an opportunity to interact with them. Overbay will visit classrooms, give lectures and meet with students to discuss forestry and careers in government. ■

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