

Provost's Council
ACADEMIC REPORT FOR 2005-2006
College of Forestry
August 31, 2006

1. 2005-2006 Highlights

a. Programmatic achievements

◆ Initiatives in support of student engagement and success

- We monitored teaching effectiveness in every class taught via the university's SET process. This year 65-70% of our courses and instructors were rated as Very Good-Excellent, while 90% were rated Good-Excellent.
- We monitored advising effectiveness each year via our own Student Evaluation of Advising process. This year 97% of our students were Satisfied-Very Satisfied with the advising they received.
- 9 BAC courses were offered.
- Forest Resources Department (FR) offered 6 new courses in AY 2005-06 and at least 3 more are scheduled for delivery in AY 2006-07, some via ECampus.
- Forest Recreation Resources program was revised and renamed Recreation Resource Management.
- Forest Management program underwent a significant overhaul and is scheduled for Curriculum Council review in fall '06.
- The College's Wildland Fire Science initiative was completed, leading to a new option within the Forest Management degree program and establishment of an outdoor laboratory within the B&B Fire Complex near Sisters, OR.
- Proposed a new graduate program in Applied Economics to replace the dysfunctional UGFE program; Category I in process.
- Developed a new Forest Resources graduate degree concentration Forestry/Wildlife.
- Department of Forest Engineering (FE) and Department of Forest Science (FS) faculty supported the implementation of the new OSU graduate program in Water Resources, with five new degree options. Initial students were accepted for advising by CoF faculty.
- An undergraduate degree in Forest Operations Management was approved by the State Board of Higher Education.

- The Forest Engineering and Forest Engineering/Civil Engineering dual degree programs were revised to require 180 and 234 credits for graduation, down from 192 and 245 respectively.
 - FE Department provided logistical support for OSU Phi Kappa Phi National Honor Society fellowship nomination process and annual awards banquet. John Sessions served as membership and awards committee chair.
 - New partnerships with Tripod Data Systems (TDS) and PPI in 2006 have resulted in donation and reduced cost purchase of about \$80,000 of new high order surveying and mapping equipment and software that will benefit surveying instruction for CoF students. The partnership also provides access to TDS and PPI staffs for assistance in student training and classroom instruction.
 - Department of Wood Science and Engineering (WSE) faculty revised the curriculum for the BS in Wood Science and Technology, reduced the degree requirements to 180 credits, and improved coordination with College of Business and College of Engineering course structures.
 - WSE faculty were successful with a proposal to USAID that will bring up to 10 Mexican graduate students to OSU in the next five years.
- ◆ **Major research/scholarship initiatives**
- The College received 169 grants, agreements and contracts totaling over \$12 million, up approximately \$500,000. from last year. A new position has been approved to assist faculty with proposal preparation but has not been filled due to budget constraints.
 - Forest Science Department received \$9.1 million in new awards and contracts (second highest department in the university). This does not include nearly \$900,000 received in annual fees for the department's seven research cooperatives. The department engages in a wide variety of forest biology research as evident in this sample of new awards: Genome-enabled discovery of carbon sequestration genes in poplar (Strauss); Effects of ungulate-disturbance interactions on native and non-native plant communities in northeast Oregon (Endress); Improvements in precision and accuracy of AmeriFlux site measurements (Loescher); Innovative, 3-D, interactive, and immersive techniques for visualizing, querying, and understanding regional maps of forest vegetation, fuels, and fire risk (Ganio); Vegetation dynamics and fire hazard in mixed-species restoration plantings in southeast Oregon (Puettmann); Natural enemies of adelgids in the western U.S. (Ross); and Biological diversity and management of forest fungi in the Pacific Northwest (Luoma).
 - Forest Resources Department secured over \$1.75 million in new grants and contracts and published over 80 scholarly documents in FY 2005-06. Several of our outputs were featured in national media.

- College faculty have prominent roles in four of the successful Provost's Initiatives: Water and Watersheds, Subsurface Biosphere (SBI), Ecosystem Informatics (EI) and Sustainable Rural Communities.
- Forest Resources is a partner in the Sustainable Rural Communities Provost's Initiative, along with Colleges of Science, Ag, and CLA. This initiative addresses the needs and challenges of Oregon's rural towns. A key accomplishment in AY 2005-06 was development of a graduate-level field course in *Communities and Natural Resources* (FOR 599/699).
- Glenn Howe and Keith Jayawickrama led the first major review of genetic improvement programs in Douglas-fir in 25 years ("Breeding Douglas-fir" which is soon to be published in "Plant Breeding Reviews" by John Wiley & Sons.
- The Forest Engineering faculty received \$1.56 million in 2005. The funds supported an array of work, for example: Improving the value recovery from logs during harvesting (Murphy), incorporating wood quality and value characteristics into stand inventory procedures to refine wood supply chain efficiency (Boston), developing innovative spatially explicit harvest scheduling models to assist the Oregon Department of Forestry in planning for State forests management (Sessions); improving knowledge of harvesting and transportation costs associated with the utilization of forest biomass for bioenergy applications (Kellogg), improving knowledge of impacts from contemporary forest practices and processes on forest soils, hydrology and aquatic habitat (Adams, Skaugset, Schoenholtz, Boston, Pyles), developing and evaluating applications of innovative synthetic rope technology in logging applications (Garland), improving knowledge of fundamental hydrological processes that serve as the basis for hydrologic process models (McDonnell), investigating basic pathology, biometrics, and associated economic impacts of damage to residual second growth trees after thinning (Kiser), developing spatial analysis techniques that assist land managers in analyzing site specific data base information at a landscape level (Wing), and support for the department's cooperative.
- OSU faculty led a successful conclusion to a major international initiative to develop peer-reviewed scientific information on the life-cycle environmental impacts of growing, harvesting, processing, manufacturing and using major categories of wood products. The results were published in a 1300 page report and in a series of peer reviewed journal articles in the December 2005 issue of *Wood and Fiber Science*. Jim Wilson, Professor of Wood Science & Engineering, edited this issue and was one of several OSU authors. The next phase of this effort will expand the scope of the information to wood-based composite materials and target the use of the life-cycle information by architects and engineers in North America through the LEED and Green Globes building programs. OSU is a charter member of CORRIM, the Consortium for Research on Renewable Industrial Materials, that was organized by 13 universities and federal agencies to coordinate life-cycle inventory and analysis research. CORRIM has been successful with acquiring over \$2 million in funding to date.

- The Wood Utility Pole Research Cooperative expanded its membership to a total of 17 members. Members represent public and private power utilities who collectively manage systems with millions of wood poles, or are suppliers to the industry. The bulk of America's electrical power is economically distributed on wood poles and this Research Coop is uniquely focused on the science and technology of protecting and managing that resource, while ensuring a healthy market for Oregon pole timber.
 - The use of Kaichang Li's new adhesive for interior wood products which uses soy protein as a key ingredient has been expanded beyond plywood to other composite materials. The technology has been commercialized with assistance of the Hercules Corporation and Columbia Forest Products, an Oregon corporation. Columbia FP has committed over \$5 million in capital expansion to utilize the OSU technology in 100% of their North American plywood production by the end of 2006.
 - WSE Research initiatives to develop new and innovative composite materials are targeting: combinations of a) wood fibers and rubber, b) wood and nylon (from virgin or recycled materials); a process of densifying low value hardwoods such as plantation poplar for use in higher value products; new techniques in x-ray tomography and numerical analysis to understand fundamental composite performance.
 - Other WSE initiatives are: expanding connections with ONAMI to explore the opportunities for cellulose nanocrystals in coatings, barrier films to retard moisture and chemical warfare agents and in dental adhesives; and, developing new technology to measure and control undesirable emissions from wood drying using ionic liquids. OSU is the acknowledged leader in assessing emissions and is now taking new technology ideas to the pilot plant scale.
- ◆ **Major outreach/ engagement initiatives**
- The Oregon Plantation Productivity and Value Enhancement Program: The mission of this program is to increase the productivity and value of planted forests in the Pacific Northwest through the development of innovations based on integrated systems of silvicultural and operational practices. The target is to improve the competitiveness of the Pacific Northwest in the global wood market. Doug Maguire has been chosen to lead this program. The program will serve as a clearing house of knowledge on silvicultural and operations systems employed in plantation management, from establishment to harvest. It will conduct research and broker efforts of others to better understand how silvicultural practices and inherent site factors interact to influence productivity, value and sustainability over rotations. The ultimate goal will be to develop decision- making tools to help managers choose combinations of silvicultural and operational practices that maximize productivity and value of their plantations. A draft prospectus is being circulated and discussed with potential participants. A meeting is planned in January 2007 to further develop the organizational and funding structure for the program and for launch later in the year.

- The Oregon Wood Innovation Center (OWIC) was formally established as a center by OSU in 2005 and Scott Leavengood was recruited to be its first Director. A program assistant who will focus on using technology for program development and dissemination will be hired in August 2006. The Center is designed to enhance innovation in the broad wood products industry and provides easy access for companies and entrepreneurs to targeted research, technical and business assistance, and to extension education relating to new product/market development, technology and process innovation, business and market planning and economics. The goal of OWIC is to increase the global competitiveness of Oregon manufacturers. This center was supported by the *Oregon Business Magazine* and is one of the forest sector initiatives in the *Oregon Business Plan*
- Kaichang Li and Joe Karchesy (WSE) organized and held a very successful symposium on “Natural Resources Chemistry” at the June 2005, Northwest Regional meeting of the American Chemical Society in Fairbanks, AK.
- WSE faculty, led by David Rosowsky, have organized an International Timber Engineering Conference to be held in August 2006 in Portland. Over 500 international scientists and engineers are registered and expected to attend.
- Campus-based WSE faculty conducted eight workshops on a variety of topics to over 250 wood products industry personnel in AY06. These workshops are in addition to the many Extension educational events conducted through the Forestry Extension program. One notable program is the Forest Products Management Development Workshop that attracted 25 industry mid-level executives, regional VP’s, and managers.
- Eric Hansen (WSE) initiated a Western Regional Forest Products Marketing Graduate Student Forum that attracted 17 graduate students and faculty from four universities. This will become an annual event that will rotate among the universities.
- WSE Faculty successfully conducted the OREGON WOOD MAGIC™ program in Richardson Hall for over 1400 3rd and 4th grade students, teachers and chaperones in October 2005. This program, conducted in multiple three-hour blocks over a three day period, exposes students from Woodburn to Eugene to the wonders of wood and the roles that it plays in their lives. It is supported by the Oregon Forest Resources Institute and by over 90 volunteers.
- WSE Faculty, led by Jeff Morrell, developed a new OREGON WOOD MAGIC ROADSHOW that conducted 187 in-class programs around the state to over 5700 elementary school students in AY06. A full-time educator has been hired with support from the Oregon Forest Resources Institute to deliver this program. Based on the success of this first year, the ROAD SHOW will visit over 300 classes next year.

- WSE Faculty developed and managed a 3-day event at the World Forestry Center in Portland in April 2006 called “Wood Fest”. This new event included a public Wood Fair with educational and art displays, a continuing education program for architects, and a version of Wood Magic designed for Portland-area 3rd and 4th grade students. It was led by faculty member, Eric Hansen and graduate student Chris Knowles, funded by the Oregon Forest Resources Institute and supported by multiple industry and other stakeholders.
- Sustaining Oregon's Forest Resources through Forest Protection and Restoration is another focal area. The College has been building a program in Wildland Fire Science and related aspects of forest health. Work is underway to strengthen research and outreach efforts in Wildland Fire Science and Ecosystem Health. Two programs have been endowed and two new faculty members and a post-doc have been hired to run the programs.
- The Management Plan for the McDonald Dunn College Forest was revised to enhance the Forest's value as a field lab for teaching, research and demonstration. The plan is now being implemented.
 - A new position has been created and filled to link teaching, demonstration and research opportunities to academic programs, and seek to and obtain grants and other forms of external funding to support academic use of the College Forests.
 - Another function of the position will be to maintain a database of academic use of the College Forests highlighting how that use has benefited society.
- Wood Science and Engineering faculty are working on new innovations: Barb Gartner on wood growth, cellulose and nanocomposites; Eric Hansen on innovation management, industry's use of innovation to obtain a competitive advantage in the marketplace; and Jeff Morrell, through the Wood Utility Pole Cooperative, is working on through-boring testing in Douglas-fir poles to enhance electrical pole lifespan and reduce internal decay.
- The Watershed Research Cooperative: This research cooperative has a goal to measure the impact of 21st century forest practices on diverse watershed characteristics, including the reactions of fish to logging. The vision is to have three major paired watershed studies across western Oregon, in addition to complementary smaller scale projects. The initial major paired watershed study is in place at Hinkle Creek on Roseburg Forest Products forestland and the first timber harvests were completed during winter 2005-2006 after several years of preharvest measurements. Preharvest data were presented in a symposium in Roseburg in fall 2005, and results were the focus of a technical session at the international meeting of the North American Benthological Society.

- The second major study will be located in the Trask River watershed on Oregon Department of Forestry, Weyerhaeuser, and Bureau of Land Management property. Initial planning work began in 2006 and funding for sampling infrastructure is being sought. Another significant, but smaller study has partnered with the WRC. This effort is a renewed investigation of the historic Alsea Watershed Study more than 30 years after the initial study was conducted. Forest regrowth has set the stage for a second harvest in compliance with contemporary forest practices rules and harvesting methods.
- Each major study is slated to be measured for 10 years. Steve Tesch and others worked with Oregon's Congressional delegation to obtain a second year of federal funding for the study, in addition to continuing support from local cooperators. The WRC's goal is to receive 75% federal funding and 25% from local sources.
- The FRL Fish and Wildlife Habitat in Managed Forests Research Program has provided new information about fish and wildlife habitat within Oregon's actively managed forests through research, technology transfer, and service activities since 1994. Current priorities for new program activities favor those that contribute to the scientific information base that supports the Oregon Forest Practices Act. The goals are to provide the information needed by forest managers to guide responsible stewardship of fish and wildlife habitat resources consistent with land management objectives, and by policy makers to establish and evaluate informed forest policy and regulations. With guidance from an advisory committee of industry, agency, woodland owner representatives, the FRL allocated \$370,000 to support eight research projects FY2006.
- ◆ **National/International impact of programs and initiatives**
 - Hal Salwasser frequently provides advice and council to federal legislators regarding the Northwest Forest Plan, Healthy Forest Restoration and forest policy.
 - John Simonsen (WSE) played a key role in the development of a National Nanotechnology Research Roadmap that is being used to set the federal research agenda in this area.
 - Bob Leichti's (WSE) research on the seismic response of log structures is the basis on a draft International Building Code design standard for use throughout the US.
 - Rakesh Gupta's (WSE) research on the seismic response of structural wood frame wall systems in houses has directly changed the standard methods by which those systems are tested for safety using American Society for Testing and Materials Standards. These wall systems are a principal market for much of Oregon's lumber.

- WSE faculty hosted 13 international trainees, visiting scientists or sabbatic faculty from 9 different countries during the past year. These visitors stayed for 3 weeks to 9 months and made significant contributions to our research or teaching programs. All were supported by extramural funding.
- Maureen Puettmann (WSE) was the keynote speaker at four workshops sponsored by the Australian Forest Wood Products Research and Development Corporation (FWPRDC) and CSIRO to promote life-cycle assessment (LCA) to the Australian timber industry. She spoke about her wood-products LCA research on the CORRIM project in Melbourne, Canberra, Sydney, and Brisbane and helped develop a research plan and guidelines for conducting an Australian LCA of wood products.
- In 2005, WSE Faculty were invited to speak on 31 different occasions at conferences, workshops and other venues in 7 foreign countries and the US.
- Several faculty in the College have prominent roles on national/international research/policy panels and scientific/professional organizations. Some examples:
 - Barbara Bond -NEON Design Consortium (Hydro ecology subgroup), this is the national development of NEON (National Ecological Observatory Network)
 - Mark Harmon - COREO (Consortium of Regional Environmental Observatories) PNW representative
 - Olga Krankina - Lead Author of Chapter 9 "Forestry" in the Fourth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC, Working group III "Mitigation of Climate Change").
 - Bev Law - Science Steering Committee of the North American Carbon Program and Science Director of Ameriflux.
 - Steve Strauss - Chair, Scientific Advisory Board, Genome Canada-Quebec research consortium "Arborea," studying "Functional Genomics of Regulation of Trees," Quebec City, Canada, 2004 - 2006.
 - Hal Salwasser, Chair National Commission on Science for Sustainable Forestry.
 - Darius Adams, Heidi Albers, John Bailey, John Bliss, Jim Boyle, Doug Brodie, Dick Hermann, Kreg Lindberg, Claire Montgomery, Bill Ripple, and Randy Rosenberger serve on editorial boards for various scientific and professional journals.
 - Jim Boyle and Temesgen Hailemariam serve as Deputy Directors within IUFRO.
 - Viviane Simon-Brown was elected President of the Association of Natural Resource Extension Professionals.
 - Darius Adams serves on the Scientific Advisory Board of the Finnish Forest Research Institute.

- Marv Pyles, (FE) led a year long effort to “rescue” the International Journal of Forest Engineering from going out of business. The Forest Products Society recently agreed to fold the journal into its portfolio and resume production. This prevented loss of a major international publication outlet for FE research.
- Michael Wing, (FE) Chair-elect for SAF’s Land Use Planning, Organization & Management working group during 2005-2006. Participated in planning for the 2006 National SAF meeting.
- Paul Adams, (FE) Member, Executive Committee, Oregon SAF
- Paul Adams, (FE) Member, national SAF Committee on Forest Policy
- John Sessions, (FE) Senior Advisor, International Selection Committee for the Wallenberg Prize
- John Sessions, (FE) Deputy Leader, Research Group 3.06, Forest Operations in Mountainous Terrain, IUFRO
- John Sessions, (FE) Chair, Fellowship Committee for the Honor Society of Phi Kappa Phi
- Stephen Schoenholtz, (FE) IUFRO Deputy Leader, Unit 3.11.00, Forest Operations and Environmental Protection
- Stephen Schoenholtz, (FE) Advisor to New Zealand National Assessment Team for Montreal-Process Criteria and Indicators
- Stephen Schoenholtz (FE) was elected as Chair elect of the Soil Science Society of America Forest, Range, and Wildland Soils Division
- Glen Murphy, (FE) Chairman – Timber Production and Harvesting Technical Interest Group, Forest Products Society.
- Jeff McDonnell, (FE) Chair, Working Group on Watershed Instrumentation, UC Berkeley National Hydrological Synthesis Center.
- Jeff McDonnell (FE) serves as the Chair of the Science Steering Group of International Association of Hydrological; Sciences devoted to improving Prediction of Ungauged Basins (PUB)
- Jeff McDonnell, (FE) STINT Fellow, Swedish National Science Foundation, University of Stockholm.
- Jeff McDonnell, (FE) elected to the International Water Academy, Oslo Norway
- Jeff McDonnell, (FE) USA Representative, UNESCO HELP Program and network of hydrological observatories.
- Jeff McDonnell, (FE) Member, UNESCO PUB-HELP-FRIEND Technical Working Group
- Loren Kellogg, (FE) New IUFRO Research Group 3.01.00 Coordinator.
- Loren Kellogg, (FE) Council on Forest Engineering (COFE) Executive Committee and Co-Chair for 2005 Annual Meeting.
- Fred Kamke (WSE) was invited to present the International Academy of Wood Science Lecture for 2006 at the Academy’s annual meeting. This honor is extended to only one Fellow of the Academy each year.
- Eric Hansen (WSE) is the editor of the Journal of Forest Products Business Research published by the Forest Products Society.
- Barb Gartner, (WSE) successfully completed a Fulbright Fellowship for lecturing and research at the Universidad Austral de Chile, in Valdivia.

- John Simonsen (WSE) was invited to serve on the Editorial Board of Wood Material Science and Engineering journal.
- Bob Leichti (WSE) joined the Editorial Board of ASTM Journal of Testing and Evaluation.
- Tom McLain (WSE) was elected a Fellow in the Society of Wood Science and Technology.
- Mike Milota (WSE) served as the Chairman of the PNW Section of the Forest Products Society in 2005-06 and as the coordinator of the Wood Drying section for the International Union of Forestry Research Organizations.
- Kaichang Li's (WSE) research on a new wood adhesive continues to be featured in numerous television interviews, stories in national media and in an NSF-sponsored environmental science television program.
- Kaichang Li (WSE) was invited to serve on the editorial board of the Journal of Biobased Materials and Bioenergy for 2006 to 2008.
- Kaichang Li (WSE) was invited to serve as a panelist for the USDA Small Business Innovation Research grant Program and the National Research Initiative Competitive Grants Biobased Products and Bioenergy Production Program in Washington DC.

b. Faculty and Staff recognition and awards

- Steve Hobbs, Executive Associate Dean, continues to serve as Chair of the Oregon Board of Forestry.
- Eric Hansen (WSE) received the Mid Career Alumni Achievement Award from the University of Idaho.
- Bill Galligan (WSE) was presented an Award of Merit for Lifetime Contributions to the Lumber Industry by the West Coast Lumber Inspection Bureau. The Award cited “Outstanding contributions to the advancement of lumber grading, utilization, research and technology.
- Barbara Gartner (WSE) was named a “Women of Achievement for 2006” by the OSU Women’s Center.
- Barbara Gartner (WSE) has completed her Fulbright Fellowship term lecturing and conducting research at the Universidad Austral de Chile, in Valdivia.
- Badege Bishaw, Director of International Programs for the CoF, Dean’s Award for Outstanding Achievement in international relations
- Center for Wood Utilization received funding for the 21st year. Initiated in 1985, OSU is one of 12 national centers of excellence funded by a USDA CSREES Special Grant. Funds support research in the WSE and FE Departments.
- Steve Bowers, Assistant Professor and Extension Agent (FE), OSU Extension Association award

- Bill Emmingham, Professor Emeritus, Forest Science; Paul Oester, Professor, Steve Fitzgerald (Professor and Extension Agent, Forest Resources) and others received the gold award, long publication category, Association of Natural Resource Extension Professionals, for the book Ecology and Management of Eastern Oregon Forests
- Eric Hansen, 2006 Mid-Career Alumni Achievement Award, University of Idaho College of Natural Resources, Julie Kliewer Mentoring Award (Xi Sigma Pi)
- Phil Humphrey, affiliate faculty, and former student MJA Chowdhury, Wood Science & Engineering, the George Marra Award (Hon. Mention), Society of Wood Science and Technology
- Ed Jensen, Associate Dean for Academic Affairs and Elizabeth P. Ritchie Distinguished Professor in Forest Resources, two silver and a bronze award for Trees To Know in Oregon, Association for Communication Excellence
- Fred Kamke, Professor and JELD-WEN Chair of Wood-based Composites Science, International Academy of Wood Science lecturer, the highest honor bestowed by the International Association of Wood Anatomists
- Jim Kiser, Instructor and Head Undergraduate Advisor, (FE), Dean's Award for Outstanding Achievement in service to the College
- Doug Mainwaring, Faculty Research Assistant, (FS), Dean's Award for Outstanding Achievement
- Tom McLain, Professor and Head of the Department of Wood Science & Engineering, Fellow of the Society of Wood Science and Technology.
- Marv Pyles, Professor, (FE), Dennis Marker Professor of the Year Award, OSU student chapter of the Associated General Contractors
- OSU College of Forestry (Debbie Bird McCubbin, Director of Student Services, Jeff Hino, Forestry Media Center Director, and the production team), a Silver Telly Award for nonbroadcast recruitment film/video for the DVD OSU College of Forestry: Getting the Big Picture
- Susan Sahnnow, Forestry Outreach, Dean's Award for Outstanding Achievement in extended and continuing education
- Bruce Shindler, Professor, (FR), Dean's Award for Outstanding Achievement in research and scholarship
- George Swanson, Program Support Coordinator, (WSE), Dean's Award for Outstanding Achievement, Service and Undergraduate and Graduate Instruction

- Jeff Wimer, Dean's Award for Outstanding Achievement in advising and mentoring
- Penny Wright, (FS) Dean's Award for Outstanding Achievement as support staff
- David Zahler, Dean's Award for Outstanding Achievement for service to the College; Education Package Team Award, Oregon State University 4-H Agents Association, for the study card series "Exploring Habitats of the Willamette Valley, Oregon".
- Norm Johnson, (FR), received the *Aufderheide Award* for excellence in teaching, which is awarded by the students.

c. Student recognition and awards

- Forest Products Society Student Chapter won the 2005 National Outstanding Student Chapter Performance Award.
- David DeVallance, WSE Ph.D. Candidate, was awarded the First Place 2005 Wood Award at this year's International Convention of the Forest Products Society. His paper was titled, "Douglas-fir plywood glue bond quality as influenced by veneer roughness, lathe checks and annual ring characteristics." The award consists of \$1000 and complimentary conference registration. The paper was derived from Dave's MS thesis research with Jim Reeb and Jim Funck as co-major professors
- Josh Halofsky, (FR) Ph.D. candidate, received the Dimick and Les Eberhardt Awards at the annual meeting of the Oregon Chapter of the Wildlife Society. The awards were for best overall presentation and best student presentation, respectively.
- Kelly Axe Award (2006): Amanda Lindsay (FM).
- Karina Bohle, MF graduate advised by Kevin Boston was awarded third place in the national ESRI user contest for her MF paper.
- Paul and Neva Dunn Outstanding Senior Award (2006): Amanda Lindsay
- OSU Forest Products Society Student Chapter won the 2006 National Outstanding Student Chapter Performance Award.
- WSE undergraduate students received \$60,000 in departmental scholarships for AY2006 including: five Wood-based Composite Center scholarships, 20 Richardson Wood Science & Technology scholarships. Thirteen WSE undergraduate students received other university and college awards. Eight WS&E Graduate Students were awarded College of Forestry Fellowships

Focus for 2005- 2006:

◆ Enhancing Student Success

- In July 2005 we completed a year-long review of student success and student services in the College. In addition to identifying factors that contribute to the success of our students, we conducted a survey and several focus groups with current students, and interviewed a number of service providers, to assess where we stand with respect to student success and services. As a result, there were nearly 30 suggestions for improvements. We began implementing suggestions in 2005 and will continue into 2006. Major changes already implemented include:
 - Clarifying and strengthening the roles and responsibilities of the Associate Dean for Academic Affairs.
 - Clarifying working relationships and responsibilities between the Associate Dean's office, Student Services, and Departments.
 - Clarifying staffing and staff assignments for Student Services, including support for recruiting and College reception.
 - Clarifying role of Associate Dean and Student Services with respect to graduate programs in the College.
 - Providing better oversight and guidance for high school recruiting and recruiters—both tactical and strategic.
 - Improving web-based job directory for students.
 - Improving internal processes for awarding scholarships and fellowships.
- Maintain Growth of degree programs
 - Undergrad enrollment grew from 396 in 2004-05 to 467 in 2005-06
 - Graduate enrollment grew from 147 in 2004-05 to 157 in 2005-06
 - Continued to engage with EOU personnel to extend Natural Resources degree program to that campus.
 - Improved attractiveness of Recreation Resource Management degree program; similar efforts underway to revamp the Forest Management degree program.
- Monitored and enhanced effectiveness in teaching and advising
 - We monitored teaching effectiveness in every class taught via the university's SET process. This year 65-70% of our courses and instructors were rated as Very Good-Excellent, while 90% were rated Good – Excellent.
 - We monitored advising effectiveness once each year via our own Student Evaluation of Advising process. This year 97% of our students were Satisfied – Very Satisfied with the advising they received.
 - Peer evaluation of teaching conducted in conjunction with promotion and tenure reviews.
 - Exit interviews conducted with graduating students, especially graduate students.

- FE Department sponsored the second annual Building Community Field Trip. Supported by a gift from the Konnie Family, the concept is to provide an opportunity for a mix of freshman through PhD students, staff, and faculty to get to know each other better in a more relaxed environment, and also to view forest engineering practice and the context in which it is practiced. This year the trip was to central Oregon.
- Currently offer 9 BAC courses and 6 WIC classes.
- Continue development to support new graduate program in Water Resources - Five new OSU graduate degrees in water resources established. Students are being accepted for admission.
- Develop new 100-400 courses (since Sept. 2004) – 28 CAT I and CAT II proposals were approved for changes in courses and programs.
- Implementing recommendations from Natural Resources Degree Program Review - Several actions, ranging from personnel changes to reconfiguration of office space are underway.
- Began implementation of changes suggested by 2004 – 05 review of Student Services.
- Enhance recruitment and retention of students.
 - Enhanced effort and resources devoted to recruiting.
 - Strengthened partnership with Weyerhaeuser and Chemeketa Community College for our Latinos in Forestry program.
 - Strengthened support system for 2.5 FTE devoted to high school/CC recruiting.
 - Initiated additional tracking and contact with students at risk.
- Increase scholarship and fellowships
 - Scholarship funding for (05-06) was \$797,000. Fellowships \$123,000.
 - A new fellowship in memory of Lee Harris is being developed, and a scholarship in memory of Larry Hoffman has been secured.
 - Oregon Small Woodlands, has created a new scholarship fund, and the first scholarship of \$ 1,000 will be awarded fall term.
 - Willamette Industries Legacy Scholarship Fund will be awarded for the first time this fall in the amount of \$6,000/ student in forestry, engineering and business. The goal is to raise \$3 million, which we hope to achieve this year.
 - A \$500,000 endowment has been established for graduate fellowships in Wildlife Ecosystem Health by the Boone and Crockett Club. WSE department is soliciting industry scholarships.
 - FE allocated \$15K from the Konnie Family gift to retain 11 undergraduate students for AY 2007. Funding from the Stewart Foundation and the Konnie family was used to award departmental scholarships to recruit and retain 29 UG students in AY2006.

- FE allocated \$6,000 from donor funds to support graduate student travel to participate in professional meetings. Funds are awarded competitively based on a review of applications by the departmental graduate committee.
 - FE awarded \$148,971 in departmental donor-supported fellowships to 9 graduate students, as well as \$56,032 in CoF Richardson endowment fellowships to three more graduate students for a total of \$205,003 in donor funded graduate fellowships. The largest amount of private departmental fellowships awarded in the university. For fall 2006, the Forest Engineering Department awarded \$155,284 in departmental donor supported fellowships to 9 graduate students , as well as \$33,523 in COF Richardson endowment fellowships to four more graduate students for a total of \$188,807 in donor-funded graduate fellowships
 - FS awarded eight supplemental fellowships for a total of \$22,000.
- New undergraduate degree in Forest Operations Management Completed in Spring 2006. Enrollment of students underway.
 - Reduced FE curriculum to 180 credits.
 - Launched the International Forest Engineering Institute. Inaugural event was an International participant study tour in conjunction with the Council on Forest Engineering meeting in Arcata, California in July 2005. A second study tour occurred in July-August 2006 with over 20 participants, largely from Asia. The next event being planned is a workshop to be delivered in Chile in fall 2006.
 - Students in Forest Resources received over \$180,000 in scholarships and fellowships during the past academic year. This includes amounts both within and outside the College. In many instances, faculty recommendations were instrumental in securing this support for our students.
 - The graduate certificate program in Sustainable Natural Resources Management received a \$65,000 grant from OSU Extended Campus to develop online delivery. Scheduled to be offered through ECampus fall 2006. CAT I proposal approved.
 - Assessing the quality of our academic programs:
 - We continue to administer an annual Student Evaluation of Advising, which shows that 97% of our students are “satisfied to very satisfied” with our advising system.
 - We continue to administer a term-by-term Student Evaluation of Teaching, which shows that 90% of our courses and instructors received ratings of “good to excellent.”

◆ **Increasing Research and Outreach**

- Support faculty in grant proposal preparation. We gained HR approval to hire a new person to assist faculty with the administrative portion of grant preparation. Unfortunately the budget situation precluded moving ahead with this hire. Nevertheless we had a successful year using our existing processes to pull in significant outside funds in support of research and outreach activities. However, faculty are stretched without assistance.
- Supported Vice President for Research in developing OSU-Inc. I have personally served on the advisory council and continue to champion the program.
- Continue development of the Oregon Plantation Productivity and Value Enhancement Program. A draft prospectus is being circulated and a program planning meeting with potential participants is scheduled for January 2007.
- Initiate development to expand the innovative grants program. A summary of the program's accomplishments has been sent to the Foundation for further development.
- Begin development of programmatic focus on multi-scale forest ecosystem processes and assessment sciences. Ecosystems Informatics Initiative funded by Provost. Recruitment of a landscape wildlife ecologist was completed.
- Expand the Watersheds Research Cooperative (WRC). More than \$900,000 in federal and local cooperator support was received in 2005. In addition to the ongoing Hinkle Creek study, two new projects were added to the WRC. The Trask and the Alsea Watershed studies are major new additions within western Oregon. Scoping was initiated to explore expansion of the cooperative to neighboring states and provinces.
- Develop framework for a new initiative in log value recovery. Scoping with potential industry collaborators is underway. Two pilot projects have been initiated with Center for Wood Utilization funding and departmental fellowships to support graduate students. One project is a collaborative effort with Roseburg Forest Products. Major expansion of initiative activity is funding dependent.
- Engage other colleges in the development of a collaborative water and watersheds research, teaching, and extension program.
 - Michael Campana was hired as the OSU Director of WWI. FE faculty are active in OSU WWI activities.
 - Initial \$500,000 of federal support was obtained; \$310,000 has been provided by local cooperators. Hinkle Creek Science Team is collecting preharvest calibration data.

- Forestry Executive Committee will consider a proposal from Glen Murphy in fall 2006
- Revise College Forests' management plan to enhance value as field lab for teaching, research, and demonstration. Plan has been finalized and implementation is in progress.
- Pursue new initiatives in wood-based materials science through the JELD-WEN endowed chair. Fred Kamke has been hired to fill the JELD-WEN Chair.
- Oregon Wood Innovation Center (OWIC) is staffed and operational.
- John Nairn, a world-class material scientist from the University of Utah was recruited to fill the Richardson Chair in WS&E. Dr. Nairn and JELD-WEN Chair Fred Kamke form the nucleus of a major new initiative to establish OSU as a world center in bio-based composite materials.
- Establish Lematta Professorship in Forest Engineering. Loren Kellogg was selected as the Lematta Professor - he is currently building a program of research, teaching, and outreach.
- Increase grants and contracts that recover a higher percentage of indirect costs. Faculty have been encouraged to seek grants with higher indirect costs rates. However, some major funding organizations such as the USDA Forest Service pay low/or no indirect costs.
- Develop electronic links to RFPs issued by key funding agencies and alert faculty to new funding opportunities.
- Develop a College continuing education curriculum.
 - Steve Bowers developed widely used Log Buyer's Directory to assist woodland owners in marketing timber. This directory is widely used in Washington, Oregon, and California by consultants, investment firms, government agencies and the target woodland owner audience. Over 1000 hard copies have been distributed and web updates have receive 12,000 hits.
 - Steve Bowers has developed Tips from the Treeman column. This creative communication and education tool is widely distributed in newspapers and magazines such as the Northwest Woodlands, with an estimated readership of 100,000 throughout Oregon, Washington, Idaho, and Montana. The column was showcased at a national conference in 2002.
- ◆ **Enhancing Diversity and Community**
 - Increase efforts to identify and recruit faculty, staff, and students from under-represented groups.

- During the past year, we worked with partners on campus (led by Oceanography) to re-gain NSF support for the NAESNR (formerly NAMSS) program. As a coalition, we were successful in gaining an additional year of “bridging” support from NSF, and will continue to work with our campus partners during the coming year to gain longer-term support.
- Support for Provost’s Tenured Faculty Diversity Initiative: Although eventually unsuccessful, we joined with Botany and Plant Pathology to offer a tenured position to Dr. Robin Kimmerer. We were disappointed that we could not attract Dr. Kimmerer to this position.
- Success in recruiting Latino students: In part because of our Latinos in Forestry program (co-sponsored with Weyerhaeuser and Chemeketa Community College), we have been successful in increasing the number of Latino students majoring in forestry.
 - Continue to support Inner City Youth Institute and Latinos in Forestry K-12 programs. Graduate student in Forest Resources completed a plan to recruit and retain Native American undergraduates as part of his Masters program.
 - Latinos in Forestry program enabled FE Department to meet enrollment goal for UG underrepresented students in AY 2006.
 - Working with Mario Magana to provide financial and personnel support for Latino Conference “Empeirzo Tu Educacion Con Nostros”.
- Working to obtain NSF grants for leadership development of women faculty. As part of a multi-unit effort, we submitted a \$3.5 million proposal to NSF which unfortunately was not funded. We will continue to pursue funding as opportunities present themselves.
- Implement new international programs cited above. Great success here came with dedication of Dr. John Hayes as 0.5 FTE Associate Dean for International programs. Recently John left to assume a department chair position at the University of Florida. As result of the budget situation we are restructuring the leadership position at a lower FTE. Students are a major factor in increased engagement but dedicated leadership and administrative support are key to success.
- Increased training for search committees.
 - Search Committees routinely engage Affirmative Action personnel in process.
 - Sponsored in-house training for staff support to Search Committees
- Increase scholarships and fellowships available to students of underrepresented groups.
 - In an effort to increase scholarships and fellowships for students of underrepresented groups, a tracking system has been developed.

- FE was awarded a \$5,000. grant from OSU Foundation Women and Philanthropy
- FR Richardson Fellowships continue to be awarded primarily to minorities and females.
- Developing a Diversity Action Plan - A Draft DAP was prepared by the College's Building Community Committee, reviewed by the Forestry Executive Committee and Terrell Ross. The plan was revised on the basis of comments and sent to Terrell Ross. The plan will be evaluated with the College as a whole this fall.
- Self-assessment - What we are doing is working, but we must put more effort into student recruitment and retention of underrepresented groups. Lack of females and other underrepresented groups in search pools constrains faculty diversity.

Major unit activities during 2005-2006 that helped promote one or more of the thematic areas

- Student Success: The Forest Recreation Resources program has been revised and renamed Recreation Resource Management. Recommendations from the Natural Resource Program Review are being implemented. The Student Services office and activities contributing to student success were internally reviewed.
- Research: The College received 169 grants, agreements and contracts totaling over \$12 million, up \$2.5 million from last year.
- Forest Science Department received \$9.1 million in new awards and contracts (second highest department in the university).
- College faculty have prominent roles in four of the successful Provost's Initiatives: Water and Watersheds, Subsurface Biosphere (SBI), Ecosystem Informatics (EI) and Sustainable Rural Communities. The College initiatives have created enthusiasm and interest throughout the state.
 - The Oregon Planted forest Productivity and Value Enhancement Program
 - The Oregon Wood Innovation Center (OWIC)
 - The Watershed Research Cooperative: Hinkle Creek, Trask, and Alsea watershed studies
- Sustaining Oregon's Forest Resources through Forest Protection and Restoration.
- The Management Plan for the McDonald Dunn College Forest was revised to enhance the Forest's value as a field lab for teaching, research and demonstration. http://www.cot.orst.edu/restor/clan2_004/

Summarize major accomplishments for 2005-2006 in support of the OSU Capital Campaign.

- Lisa French and Hal Salwasser are implementing a comprehensive development plan for the College. It includes development plans for HJ Andrews Experimental Forest and for International Programs. Lisa is working on a land acquisition marketing campaign for forestry and agricultural lands.
- Initiated development activities to expand the College's Innovative Grants Program. A summary of the program's accomplishments has been sent to the Foundation for further development.

2. Other initiatives and their outcomes e.g., Faculty/Staff Professional Development Activities

- Steve Strauss has completed the Aldo Leopold Leadership Training Program.
- CoF safety committee headed by Jim Kiser has developed an updated comprehensive safety manual which is currently under review by the Forestry Executive Committee.
- First Aid and CPR Classes have been provided for all new summer employees again this year, as well as refresher classes for permanent employees.
- All candidates for promotion and/or tenure were successful in 2006.

3. Scorecard

a. Performance on college-level metrics (Institutional Research will provide you with an initial set of college/unit metrics for 2005-2006 for your review)

- Expenditures from grants and contracts were up significantly.
- Inventions were up 50%.
- 68.3 % of students are comfortable with climate for diversity. We believe this to be low, as the sample was very small. A subsequent survey of our own showed a much more favorable response.
- The percent of minority students of total College enrollment has decreased slightly. We continue to recruit minority students and have recruiters specifically assigned to Hispanic and Inner City youth.
- External Funds generated per state dollar has increased slightly.

- First year retention within the College has increased by 2.6% while the University has decreased 2.8%.
- Six year graduation rate has decreased 3.6% while the University has decreased 2%. Undergraduate degrees awarded decreased by 4, however the enrollment has increased by 34 from last year.
- Awards from grants and contracts have increased by approximately \$500,000 from last year. Forest Science received \$9.1 million in new awards and contracts.
- Private giving revenue has increased \$4 million and next year should be even better.

b. Leveraging resources

- Initiatives to leverage state resources
 - Oregon Plantation Productivity and Value Enhancement Program
 - Oregon Wood Innovation Center
 - Sustaining Oregon's Forest Resources through Forest Protection and Restoration
 - Several research cooperatives are funded by OSU and member organizations that jointly select and carry out research on high-priority research problems. Swiss Needle Cast and Hinkle Creek are especially prominent at this time in the State.
 - Swiss Needle Cast Cooperative (SNC)
 - The Watershed Research Cooperative (WRC) - Hinkle Creek, Trask, and Alsea
 - Hardwood Silviculture Cooperative (HSC) o Nursery Technology Cooperative (NTC)
 - Pacific Northwest Tree Improvement Research Cooperative (PNWTIRC)
 - Vegetation Management Research Cooperative (VMRC)
 - Nursery Technology Cooperative (NTC)
- Initiatives to improve administrative efficiencies
 - We permanently filled the Associate Dean for Academic Affairs (0.5 FTE), and also the Executive Associate Dean (0.5 FTE). A new Associate Dean for Extension and Outreach Education reports on Oct. 1, 2006.
 - Forest Resources Department conducted a comprehensive Office Operations Review. Efforts are underway to implement the findings and recommendations designed to improve efficiency, quality, and reliability of departmental services.

4. Assessment of your 2005-2006 Priorities

a. Enhance student success

- Implement recommendations from Student Success review.

b. Increasing research/ scholarship and outreach

- Support faculty in grant proposal preparation.
- Support Vice President for Research in developing OSU-Inc.

c. Enhancing diversity and community, including international dimensions

- Implement recommendations of the Committee on Academic Freedom and Responsibility. The committee recommended 25 separate actions to improve leadership and governance of the College, cultivate professional behavior, and to foster collegiality, inquiry, and debate. We are taking steps to implement all but one recommendation (we do not think it necessary to seek outside review of the recommendations).
- At least on an interim basis, restructure international programs leadership to Assoc. Dean Ed Jensen for education programs and Assoc. Dean Jim Johnson for research and outreach programs.
- Work with campus partners to secure long-term funding for NAESNR (formerly known as NAMSS).
- Continue efforts to recruit and retain Latino students and students of color from the inner city of Portland through Latinos in Forestry and Inner City Youth Institute.
- Continue to support efforts of our College Building Community Committee to improve our sense of community and diversity within the College, devoting more formal attention to their Diversity Action Plan.
 - Be successful in reconfiguring NAMSS for continued NSF support.
 - Be successful in obtaining NSF grants for leadership development of women faculty
 - Implement new international programs cited above.

5. Proposed Priorities for 2006-2007

a. Enhance student success

- Continue implementing recommendations from our 2005 review of student success and student services.

- Co-lead a pilot student engagement program with CAS. We have 2 representatives on the OSU committee charged to foster student engagement.
- Continue to use the capital campaign for increased scholarships and fellowships.

b. Increase research/scholarship and outreach

- Support new faculty with start up funds and research assistants.
- Develop focal program initiative in forests, carbon and climate.
- Support faculty working on the NSF NEON program.
- Seek increases in the FRL state appropriation and harvest tax from the Legislature.
- Continue the capital campaign for endowed faculty positions.

c. Enhance diversity and community, including international dimensions.

- Implement recommendations of the Committee on Academic Freedom and Responsibility. The committee recommended 25 separate actions to improve leadership and governance of the College, cultivate professional behavior, and to foster collegiality, inquiry, and debate. We are taking steps to implement all but one recommendation (I do not think it necessary at this time to seek outside review of the recommendations). Of the 20 separate actions I have proposed here is a summary:
 - Add 2 members to the FEC to diversify input.
 - Create an internal College of Forestry Advisory Council to provide input and feedback to the Dean.
 - Increase accessibility to the Dean through open office hours and more informal interaction with faculty and staff.
 - Improve communications about leadership and governance issues by posting FEC meeting agendas and minutes on the web.
 - Institute new policies and procedures for the review of College administrators.
 - Seek additional input from outside the College on major issues, both through formal (e.g. FRL Advisory Board) and informal means.
 - Improve the transparency of budgets and the budgeting process.
 - Develop a code of conduct for the entire college community and appoint several ombudspersons to help administer.
 - Elevate the importance and status of mentoring, for graduate students and young faculty.
 - Elevate the discussion of issues, scientific debate, ethics, and academic freedom within the College via courses, seminars, and general discussion.

- Restructure International Programs - Interim leadership will be provided by Associate Dean Ed Jensen for education programs and Associate Dean Jim Johnson for research and outreach programs. Badega Bishaw will be interim director of International Programs
- Work with campus partners to secure long-term funding for NAESNR (formerly known as NAMSS).
- Continue efforts to recruit and retain Latino students and students from the inner city of Portland (through Latinos in Forestry and Inner City Youth Institute).

d. Capital campaign

- Raise \$5-6 million for the College.
- Cultivate new relationships for out years.

e. Personal leadership

- Represent OSU as member of The National Academies Board on Agriculture and Natural Resources.
- Celebrate centennial of forestry programs at OSU
- Advocate in Salem for increased appropriations to Statewide Public Service Programs and for increase in harvest tax funding to the College.
- Continue implement of the newly revised College Forest Plan.
- Continue to implement financial management strategies to reduce costs and increase revenues.