



**MESSAGE FROM THE
DEPARTMENT HEAD**

Greetings from the Forest Engineering Department faculty, staff, and students as we enjoy the 2007 Holiday Season. Over the past year we completed the College Centennial celebration and there have been many accomplishments within the FE family that should make you proud of the department and its people. My guess is you might also be proud of the back to back National Championships baseball team, and perhaps the football team Sun Bowl victory last fall and Civil War win this fall.

Our partnership with the profession to educate work ready graduates prepared for lifelong learning remains strong. Graduates are in demand, enrollments are up, the faculty continue to provide innovative research and extended education in support of science-based forest operations, the office staff provides outstanding support that is the envy of the college, and our alumni and friends actively invest in the future of our students and programs.

Thank you very much for your generous contributions of time, energy, and financial support that have helped us provide high quality teaching, research, and outreach programs. The success of the department and our students is a team effort and the system is working thanks to everyone's commitment and support!

STUDENTS, GRADUATES, AND JOBS

Undergraduate student numbers are up again for fall 2007, approaching 110 students if we include students enrolled at nearby community colleges in the degree partnership program! We had 45 students enrolled for FE 101, our new student orientation course, which is the largest number in at least 20 years! We have made some progress in recruiting women and underrepresented minorities in our undergraduate programs, with about 8% in each category. In addition, we have 5 students enrolled in the Honors College. Enrollment in the FE program is 49, and the FE/CE program is 32. The new Bachelor of Science degree in forest operations management (FOM) is gaining momentum, with 24 students enrolled at the end of fall term. We should have our first graduate this spring.

- **Sixteen graduates** (13 FEs, 3 FE/CEs) completed UG degrees last year and found abundant jobs. Employers aggressively recruited for available graduates. The summary is as follows:

Forest products/timber companies	3	Municipal government	1
Consultants - Forestry	2	Contractor	1
- Engineering & Surveying	6	Temp by choice	1
Family forest	1	Unknown	1
Agencies	0, but actively recruited		

We encourage graduates to take the Fundamental of Engineering (FE) and Land Surveying (FLS) exams as they leave school. This year interest in the FLS exam was much stronger than in past years as noted below based on spring term senior exit interview information.

- FLS exam – 13 out of 16 graduates expressed interest in land surveying licensing. One was already an LSIT by passing the exam in California; 10 took the Oregon FLS exam in April 2007, and 2 expressed intentions to take exam in the future.
- FE exam – 11 out of 16 graduates expressed interest in engineering licensing. One is already an EIT by passing the exam in California, 3 took the Oregon FE exam in April, and 7 expressed intentions to take exam in the future.
- Job recruiting/hunting has already started for 2008. We had received several announcements for summer intern positions by early December. The College Job Fair will be held on February 5, 2008. Don't wait to announce positions if you want a chance for the best students!
- We anticipate as many as 10 graduates with undergraduate degrees this academic year and they are beginning to look for permanent jobs. My guess is there will be more jobs than graduates, so don't wait if you would like to hire one of these folks!
- Our graduate program enrollment declined this fall to 24 students, in part because our major professor capacity has declined with the unfilled vacancies of the Garland and Schoenholtz positions. Seven graduate students completed programs last academic year and those who sought jobs were employed by consulting firms, state and federal agencies, and in academia.

Please, if you know of prospective students please send us their names so that we can contact them about our educational programs and opportunities for financial aid.

DEGREE PROGRAM AND COURSE UPDATES

Accreditation of FOM degree. We applied for accreditation of the Forest Operations Management degree by the Society of American Foresters this fall, and look forward to hearing from them soon. As you may recall, the curriculum blends elements of forest engineering and forest management with business management and entrepreneurship. We collaborate with the Forest Resources Department on this degree, but administer the program and provide student advising here in the FE Department.

It is **ABET accreditation time** again! We are actively preparing materials for a site visit during fall 2008 to review the forest engineering program, including the FE/CE dual degree program. It is hard to believe we are nearly through a 6-year cycle. While we are much more confident in our preparation for the visit this time, the process is very onerous and preparing documentation is a huge job. We have a plan in place to assess our success in meeting defined program objectives and outcomes; it also identifies how we will use assessment information to continuously improve the educational program. Interactions with the FE Department Advisory committee, alumni surveys, student exit interviews, end-of-term reports for each class, and fundamentals exam performance are key elements of the plan. Marv Pyles has the lead on this effort.

The demand for **geomatics and land surveying** professionals is expanding rapidly and the work is a fundamental necessity for Oregon's economic development. There has been lots of interest from employers in **educating surveyors** at OSU and students are increasingly aware of career opportunities. In FE, we remain committed to maintaining surveying as a core element of an FE education. Progress has been slow in coalescing surveying education at OSU and within Oregon. It is clear that our current collective efforts will not meet the

need for Oregon in the near future. Reorganization of the CCEE Department into a School of Civil and Construction Engineering is now complete and a new School Director has been hired. I am hopeful that the timing is improving to make progress in planning for the OSU future in this educational area. Surveying employers continue to court FE students through the MECOP/CECOP internship program and our FE curriculum committee is examining our course scheduling and sequencing in hopes of providing better opportunities for students to more fully participate in this structured internship program.

FACULTY, STAFF, AND STUDENT RECOGNITION

- Bob Parker was promoted to Associate Professor and awarded indefinite tenure.
- Jeff McDonnell was selected to present three prestigious lectures, including the: J.J. Penman Lecture, British Hydrological Society, Durham UK; the Boussinesq Centre Masterclass Lecture, Delft, The Netherlands; and The Frontier Lecture, AGU Meeting, San Francisco.
- Mike Wing received an OSU L.L Stewart Faculty Development Award.
- Alicia Kiyvyra, PhD student, received an OSU Oregon Sports Lottery Scholarship.
- Holly Barnard, PhD student, received a national Horton Fellowship from the AGU.
- Brendan Welsh, recent FE/CE program graduate received an OSU Writing in the Curriculum Culture of Writing Award.
- Will Hoskins, recent FE program graduate, received the CoF Paul and Neva Dunn Outstanding Senior award last spring.
- In addition to the faculty and student recognition above, a host of FE UG and G students have received a total of 77 CoF fellowships and scholarships for this academic year. (Some students received more than one award.)

ALUMNI AWARDS

At the Centennial Fernhopper celebration last spring the FE Department honored two alumni for their accomplishments and contributions to the profession:

George Ice received a PhD with a concentration in forest hydrology in 1978 and has provided strong leadership in the field as a forest hydrologist for NCASI and as leader within SAF.

Abigail "Gail" Kimbell received an MF in forest engineering in 1982 and has had a distinguished career in the Forest Service, culminating as the current Chief.

RESEARCH

The focus of the department's research program is little changed from last year, but several faculty programs have certainly advanced. The broad focus areas within the department can be summarized as follows: 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 spatially explicit land management and harvest scheduling models (Sessions); improving knowledge of harvesting and transportation costs associated with the utilization of forest biomass for bio-energy applications (Kellogg), improving knowledge of impacts from contemporary harvesting and transportation practices and processes on forest soils, hydrology and aquatic habitat (Adams, Skaugset, Schoenholtz [via remaining OSU students], Boston, Pyles, Sessions), improving knowledge of fundamental hydrological processes that serve as the basis for models (McDonnell), investigating basic pathology, biometrics, and associated economic impacts of damage to residual second growth trees after thinning (Kiser), and developing spatial analysis techniques that assist land managers in analyzing site specific data base information at a landscape level (Wing).

- The Watershed Research Cooperative is gaining national visibility and credibility as early results from the Hinkle Creek study are presented at scientific meetings and graduate students complete theses. The

interdisciplinary work at this site is virtually unique in North America in its focus on both physical and biological aspects of watershed function and response to harvesting. The addition of the new Trask and Alsea Rivers study sites broadens the geographic and scientific scope of the cooperative. We are excited about the anticipated contributions from the WRC to science-based forestry in the years ahead.

- The log value recovery initiative continued to develop slowly with existing funding from the Center for Wood Utilization and departmental fellowships to support graduate students, as well as some outstanding in-kind support from Roseburg Forest Products Company.

EXTENDED EDUCATION

Our Extension and continuing education activities help targeted audiences understand and apply science findings, and provide life-long learning opportunities. Faculty located on campus and in the counties work together to support county-focused Extension programming, as well as others such as the OR-OSHA safety committee, the Associated Oregon Loggers, and OFRI, and they provided service to professional organizations such as SAF, COFE, Forest Products Society, and IUFRO. FE faculty and students led or contributed to at least 13 regional, national, and international conferences, symposia, workshops, and shortcourses over the past year, as well as at least 85 field tours and presentations.

- The FE Department hosted the triennial 13th Pacific Northwest Skyline and IUFRO-cosponsored International Mountain Logging Symposium in April 2007 with about 185 participants.
- Loren Kellogg led a one-day Western Region COFE conference co-sponsored by the FE Department and Associated Oregon Loggers for more than 100 participants.
- FE graduate students, with faculty support from Arne Skaugset, organized and hosted a Forest Engineering Graduate Student Research Symposium on Forest operations, soils, and hydrology in March 2007. The event included preparation of a proceedings of the 18 presentations by FE graduate students.
- Jeff McDonnell led several NSF-sponsored workshops devoted to improving Prediction of Ungauged Basins (PUB) around the world.
- Mike Wing offered a broadened slate of short courses on GIS/GPS themes.
- While there have been a number of publications over the past year or so directed at woodland owners and logging professionals, two stand out:
 - Managing Woodland Roads, prepared by Steve Bowers with support from ODF, now in its third printing.
 - Timber Fallers Safety, prepared by Jeff Wimer with support from OR-OSHA.

PROFESSIONAL SERVICE

Marv Pyles has been leading an FE Department initiative for two years to stabilize the International Journal of Forest Engineering. The goal was to maintain production while seeking a new long term home that could also offer a more financially stable operating model. Marv has successfully moved the Journal to the Forest Products Society, with a commensurate strong increase in subscriptions and improved financial standing. The Journal recently announced a new technical editor to replace Marv, so it appears the case is closed. Thanks to Marv for his leadership. The remaining challenge is for the forest engineering/operations profession to actively support the journal by subscribing and providing high quality manuscripts.

INVESTMENT IN STUDENT AND FACULTY SUCCESS

We continue to be blessed with strong support from alumni and friends that has helped stabilize our programs during challenging financial times, provided student access to higher education, and provided discretionary funds that have enabled us to ensure a quality learning experience while they are here.

With the help of the faculty, staff, and students, I continue to build relationships with our major donors, including the Konnie family, Rick Strachan (Gibbet Hill Foundation), the Stewart Foundation, and the

Lemattas, as well as the many other supporters that collectively add considerable value to the department, and finally, work with the Dean and OSU Foundation to identify new friends and tell them about our programs and students.

The following are some examples of how those investments benefit our students and programs:

- The Forest Engineering Department is able to fully support 10 graduate students from donor-funded fellowships (Stewart, Lematta, Rick Strachan/Gibbett Hill Foundation, and Richardson) this academic year. Several recipients have further leveraged their fellowships with other sources of support for additional terms. I believe this remains the largest number of private departmental fellowships awarded in the university.
- A pool of about \$20,000 comprised of Konnie funds, FE Department unrestricted gifts, and Women's Giving Circle grant funds enabled the department to award 13 scholarships beyond those available from the College. These funds are very helpful in targeted efforts to recruit and retain undergraduate students.
- In addition to scholarships, Konnie funds support special field trips, registration fees for undergraduate students to attend professional conferences, graduate student travel awards, and equipment for the Konnie teaching laboratory, while also funding a long term endowment for future use. For example, \$6,000/year is available to help pay the cost of travel to professional meetings and conferences for graduate students where they presented talks, displayed posters or otherwise engaged future employers and colleagues. Finally, in lieu of a FE Department "building community" field trip in 2007, Konnie funds enabled 33 undergraduate and graduate students to attend the Skyline Symposium, including 13 graduate students who presented posters of their research work.
- Rick Strachan and the Gibbet Hill Foundation have supported the department in numerous ways. Rick has recently completed funding of a \$3.6 million endowed chair to support forest operation management teaching and research. He has also supported 8 graduate student programs since 2003 and recently pledged support for another five years of fellowships. Another gift was used in 2006-2007 to establish an Undergraduate Research Award to promote engagement of undergraduate students in the FE research programs. Five faculty received awards that exposed undergraduate students to our research activities.
- Ongoing partnerships with Traverse PC, Tripod Data Systems (TDS) and PPI Group provided access to state of the art technology and software for student education in geomatics. The partnerships also provide access to corporate technical staffs for assistance in student training and classroom instruction. Thank you! We hope to expand on our relationships with high tech equipment companies to obtain access to the rapidly evolving technologies for our students.
- Over the past couple of years you have heard from Jeff Wimer about our need to upgrade the logging equipment used by our **Student Logging Training Program (SLTP)** and we established a wish list. An initial goal has been to raise about \$300,000 to purchase equipment or seek equivalent equipment donations that fit our program needs. In the long run we would also like to create an endowment that would generate an equipment replacement fund to support equipment needs in perpetuity.

The program received a major boost last spring. **A new partnership with Triad Equipment and Link Belt Manufacturing resulted in a gift of a log loader.** This investment helps promote the application of classroom principles into work practice via the latest technology. The current arrangement is for a one year time period, but a longer term relationship is under consideration. Thank you Triad and Link Belt!

The SLTP is a key element of our effort to educate work ready forest engineering and operations graduates. Please contact Jeff Wimer or me if you would like to help.

- When John Garland retired, the FE Department established **The John and Pam Garland Professional Development Award Fund** to encourage graduates from the Forest Engineering Department to become active participants in professional development and service activities, especially through the Council on Forest Engineering (COFE). The goal of the fund is to provide every graduating senior with a membership in COFE upon graduation. Donations to the fund are welcome if you would like to help students and recognize John and Pam.

FUNDING SCHOLARSHIPS FOR STUDENTS

In the 2006 Cable I explained a change in policy by the OSU Foundation that raised the minimum endowment required to establish a **Named Scholarship Fund** to \$25,000. This is a great approach to ensure that a scholarship is funded into the future, perhaps to recognize or memorialize a family member or friend. However, I have heard from some of you that this amount puts funding scholarships beyond your means. As an alternative, I established a departmental process that enables named annually funded scholarships for donors who contribute \$1000 or more to the FE Department discretionary account through the Foundation. We develop an agreement that assures your gift will go to support a worthy forest engineering or forest operations management undergraduate or graduate student, according to your wishes. The students receive your name and any other information you wish to provide when the award is made. Two such scholarships were awarded at Fernhopper Day in 2007, one by Fred and Caroline Green, and one by the Smouse Family of Emerald Valley Thinning. The process worked fine from our perspective and I am happy to visit with anyone else who would like to help a student in this manner.

UPCOMING EVENTS

Alumni and Friends LUNCH – As is our tradition, we will again host an **alumni and friends event at the Oregon Logging Conference** in Eugene on Friday, February 22, 2008. **We are modifying our tradition this year to avoid the conflict with the OLC breakfast by switching to a lunchtime event.** You are welcome to call, fax or email us with your registration for the lunch. A reminder postcard will be sent out early February. I hope to visit with you there or at the FE Department booth.

The **2008 WR-COFE meeting** will be held at the Valley River Inn on January 17 in conjunction with the AOL annual meeting. See the COFE web page for more information and find registration information: www.cofe.org. Jeff Wimer provided leadership for program planning, with support from Bob Parker and Steve Bowers, and, of course, Sylvia Aulerich!

The 2008 **Council on Forest Engineering Annual Meeting** is scheduled for June 22-25 in Charleston, South Carolina. The meeting will be co-hosted by the University of Georgia and Clemson University. See the COFE web page for more information.

THE CHALLENGES AHEAD

The accomplishments noted above are really a testament to the passion and resiliency of the faculty and staff, who have been able to set aside budget inadequacies and organizational uncertainty over the past year to maintain a focus on our mission and the many opportunities to help resolve the challenges facing forestry in the future.

As this **Cable** goes to press, the College is exploring several options that would reduce the number of departments and the administrative capacity of the Dean's office. It is likely there will be only two or three departments in the future and the FE Department will no longer stand alone. On a positive note, guiding principles call for maintaining all current degree programs.

The reorganization discussion is the result of an increasing imbalance in costs and revenues identified in late 2005. Estimates at that time forecast that the College would exhaust all reserves and face a several million dollar annual shortfall by about 2010. Dean Salwasser received strong support from the Oregon legislature and stakeholders in the 2007 session that reduced the projected deficit, but the imbalance was still of sufficient magnitude to require further cost reduction actions. The current proposals are the result of substantial internal and external discussions intended to cut costs while maintaining the strategic strength of the College for the future. Our hope is these actions will set the stage to close the remaining financial gap with additional funding from the 2009 legislature and from private gifts received during the current OSU Capital Campaign, as well as from increasingly entrepreneurial grantsmanship by faculty and some likely retirements over the next several years.

In the meantime we have not been able to refill the Extension Timber Harvesting Specialist position vacated when John Garland retired, or the water quality/forest soils position vacated when Stephen Schoenholtz resigned to become Director of the Virginia Water Resources Research Center at Virginia Tech University, both in 2006. We have had some very capable interim support to maintain these program functions, but clearly this is not desirable for the long term.

In Closing

Thank you for your continuing support! Best wishes for a pleasant holiday season and great 2008. I always enjoy hearing from you if you have comments or questions.



Steve Tesch

Summary of the *International Mountain Logging and 13th Pacific Northwest Skyline Symposium*; held April 1- 6, 2007 at Oregon State University

By Loren Kellogg, Symposium Chair and Lematta Professor in Forest Engineering

Mountain forests are valuable resources providing wood, water, wildlife habitat, recreation and scenic quality. Meeting society's demands for wood products while maintaining and enhancing those scenic, protective and productive values requires skillful application of forest engineering operations and management knowledge.

Beginning in 1969 and approximately every three years, the accumulated knowledge and technology gained by experience and research of private industry, contractors, public organizations, universities and research organizations in the Pacific Northwest region of the USA, and other mountainous regions around the world, are disseminated at the *International Mountain Logging and Pacific Northwest Skyline Symposium*. Traditionally the event has been hosted by rotation with Oregon State University, the University of Washington, and the University of British Columbia and the Forest Engineering Research Institute of Canada (FERIC). The 13th Symposium was organized and hosted by the OSU Forest Engineering Department. The symposium focused on sustainable approaches for mountain forest harvesting including technical, economic, environmental, and social aspects with harvest planning, forest road management, and logging operations.

Symposium co-sponsors were IUFRO 3.01.00 – Harvesting and Transportation Engineering, and IUFRO Division 3; the Oregon Forest Resources Institute (OFRI), the Associated Oregon Loggers (AOL), and Oregon State University. The symposium venue included two days of field trips to forest harvesting operations; over 45 technical presentations in six topic areas, 8 breakout workshops, a poster and vendor display, social events, and a post-symposium field tour to the Hinkle Creek paired-watershed research study area. There were approximately 200 participants from 12 different countries: USA, Canada, Austria, Germany, Sweden, France, Norway, Turkey, South Africa, Nigeria, Republic of Korea, and Japan. Symposium Proceedings are available on the web at www.cof.orst.edu/cof/fe/pdf/skyproceedings.pdf

Thank you to all of the speakers, poster and vendor presenters, session moderators, symposium participants, and the symposium organizing committee members for an informative and enjoyable program. The next international Mountain Logging and 14th Pacific Northwest Skyline Symposium will be held in 2010 and hosted by the University of Washington.

NEWS AND NOTES FROM FE FACULTY

Paul Adams

With John Garland's retirement I was largely on my own teaching Forest Operations Regulations and Policy Issues (FE 460) this year, with some key help from Jeff Wimer who covered the material on safety and employment concerns. Among our class exercises is some student role-playing in presenting oral testimony before a policy making panel. This turned out to be useful practice for one of our seniors, Will Hoskins, who within a few weeks after completing FE 460 testified at a local field hearing of a committee of the Oregon Legislature. Content and relevance to real-world forestry issues and experiences remain primary features of this unique FE class.

As part of my Extension work I updated and delivered in several locations the training module on forest watershed science and public issues for Master Woodland Managers (MWMs). This is a major training program conducted throughout the state that involves most of our OSU Extension Forestry faculty as instructors or local training coordinators. In return for their training, MWMs provide us with valuable volunteer assistance in reaching other family forest owners with useful information and referrals about woodland management. Steve Bowers and I also collaborated on a new class and field trip for MWMs that focused on woodland ponds, with Steve showing off his "beaver-like" workings on his own property in the Coburg Hills.

Another active wildfire season helped maintain wide interest in related forest management issues. For a variety of audiences and locations, I presented seminars and contributed to field trips on wildfire and forest management topics, including soil and water effects. Also related to forest resource concerns in fire-prone areas, this fall I have a new PhD graduate advisee, Terry Craigg, who has served for many years as a soil scientist on the Sisters Ranger District of the Deschutes National Forest. Although Terry's PhD research plan has yet to be developed, we expect his work to help address some questions about the soil effects of ground-based forest management activities for areas with significant fire and forest health hazards. His studies may also address some policy dimensions of soil resource protection on federal lands.

I continue to be heavily involved with the Society of American Foresters (SAF) at both the state and national levels. As a member of SAF's national Committee on Forest Policy (CFP), I've shared some of our ideas and experience at Oregon SAF (OSAF) with professional colleagues from other regions. Among the issues the CFP worked on this year was a revised position statement on "Timber Harvest on Federal and Other Public Lands." At the state level, I continue to serve as chair of the Policy and Legislation Committee of the OSAF. Our OSAF committee also is dealing with some position statement updates, and we are working more actively to promote OSAF and its professional views on forestry issues with policy and decision makers in Oregon. This has included testimony at public hearings and written comments.

Kevin Boston

It was another busy year and I have projects moving along nicely. I hope to work more closely with industry partners in the future. Additionally, I have been making progress with my supply chain planning work that includes the addition of wood properties into the supply characterizations. I was able to stay near Corvallis for much of the year and concentrated on finishing up a number of publications and helping my graduate students with their work. Much of my work in the department this year has been to finalize the revised FOM curriculum with a 180-credit total to meet the university guidelines, and to help launch the new forest operations management degree.

Steve Bowers

With a \$13,000 grant that was obtained through the US Forest Service Cooperative Forestry, a 3rd printing of *Managing Woodland Roads: A Field Handbook*, is being printed. The handbook discusses the major aspects of woodland roads management as it relates to their design, inspection, maintenance and repair. Most private and state woodland roads are already in existence, thus the primary focus of this publication is to assist landowners and managers in the management of these in-place roads. Upon completion of the 3rd printing, a total of 6,000 copies will have been made available for distribution.

I also co-authored OSU Extension Circular 1609, *Tariff Access Tables: A Comprehensive Set*, which was released August 2007. The publication is a supplement to the OSU Extension Circular *Stand Volume & Growth: Getting the Numbers*, EC 1190. Tables in EC 1609 give a comprehensive list of tariff numbers, and corresponding tree volumes that may be calculated from a timber stand. Tariff and access tables are for Douglas-fir, grand fir, ponderosa pine, red alder, western red cedar and western hemlock. Tariff numbers range from 15 to 60, allowing the user to estimate virtually any tree volume for the listed species, based on diameter at breast height (DBH) and total height.

I am also co-author of OSU Extension Circular 1587, *Selling Timber and Logs*. This publication provides a step-by-step overview of selling timber, along with references to other sources of information. The steps are derived from the experiences of landowners, consultants, loggers and log buyers and are presented in the order they should be taken to ensure a successful timber harvest. The information will give sellers a degree of comfort with timber marketing, help them feel they have adequate control over the process, increase their confidence with log buyers and logging contractors, make better informed decisions, and gain greater returns on their tree-growing investment.

Loren Kellogg

In addition to teaching and research responsibilities, the highlights for 2007 included chairing the Western Region COFE conference that was co-sponsored with the AOL Annual Convention; and chairing the International Mountain Logging and 13th Pacific Northwest Skyline Symposium that is held in Oregon and hosted by the OSU Department of Forest Engineering approximately once every 9-10 years. Also, it was great to work with Dr. Ben Spong, West Virginia University, in completing his OSU PhD thesis. Former graduate student Dr. Chad Bolding, Clemson University, returned to Corvallis to participate in the June commencement.

I am currently on a one-year sabbatical (July 07 – July 08) working in Australia, helping to build Forest Engineering capacity in Australia with links to Oregon. The Cooperative Research Center for Forestry (CRC-Forestry; www.crcforestry.com.au) includes a new harvesting and operations research program that I am helping to get off the ground. I enjoy working closely with former FE graduate student, Dr. Mauricio Acuna, a Research Fellow with CRC – Forestry. I am currently living in Hobart, Tasmania, and will be moving to Creswick, Victoria in January. I have developed a series of 1- 2 day harvesting workshops that will be presented with the help of John Sessions in Tasmania, Western Australia, and South Australia in December.

Another 2007 highlight for me was being invited by the Forest Engineering Societies in Korea and Japan to give keynote presentations and to learn about forest harvesting, research and training in both countries. Former graduate student, Dr Han-Sup Han, Humboldt State University, accompanied me on the trip to Korea that included a visit to Dr. Han's university home town.

I invite all OSU friends and colleagues to drop me a line or better yet, stop by for a barbie and beer in Aussie if you are traveling down-under. I can be reached through my OSU e-mail or my Australia e-mail: lkellogg@unimelb.edu.au

Jim Kiser

I currently teach the Forest Route Surveying and the Advanced Forest Surveying courses in spring and the Forest Photogrammetry course in winter. I am involved in a number of short courses including Dr. John Bell's short courses on Variable Probability and Advanced Variable Probability. I continue to provide expertise in the use of Global Positioning Systems both in the college and across campus. In addition, I continue to teach sections of the winter review course for the Fundamentals of Land Surveying Exam for Dr. Robert Schultz in the Civil Engineering Department.

The 2nd edition textbook "Aerial Photo Interpretation for Natural Resource Managers" that I co-authored with Dr. David Paine continues to be a standard textbook for all Forestry and Forest Engineering students in the College and is used across the United States and Canada as well as Europe, Southeast Asia, and Australia in Forestry curricula. A second textbook I authored last year, Surveying for Forestry and the Natural Resources, is doing very well. The book is in a format for field use and fits in the large pocket of a field vest. In addition to field surveying fundamentals it includes up to date information on GPS and GIS, chapters on route surveying, and an expanded section on the Public Land Survey System with emphasis on Oregon and Washington Donation Land Claims. I am currently writing expanded chapters on Route Surveying and GPS with a section on higher order survey grade GPS.

I am completing work on a new GPS chapter for the National Resources Conservation Service (previously the Soil Conservation Service). The chapter will be included in the Engineering Survey Section of the Engineering Field Manual that I authored last year. The chapter is currently in review from the NRCS Regional and National engineers.

I will be finishing work on my doctoral thesis this coming year. The project is focused on the long-term inventory and financial impacts of residual stand damage during commercial thinning activities.

I currently serve on a number of department, college, and university committees including Chair of the College Safety Committee, University Safety Committee, College Recruiting and Retention, and Department Curriculum. I also serve as the Department Lead Advisor for Forest Engineering and the Head Advisor for the Forestry Club. The College-wide safety manual has been implemented and I am active in developing our College safety and training programs. I am a member of a working group for recruitment of Latinos in Forestry sponsored by Weyerhaeuser company and have recruited a number of very promising Latino students into our program this year.

Finally, I continue to work with the Professional Land Surveyors of Oregon (PLSO) and a number of surveying instructors across the state to strengthen and solidify the surveying profession in the state.

Jeff McDonnell

I spent the summer as visiting professor in the Department of Civil Engineering at the Technical University in Delft (The Netherlands). I also finished up my stint as Science Chair of the IAHS Decade on Prediction in Ungauged Basins (PUB). This followed the setting-up of a new PUB community science project in the upper Blue Nile basin in Ethiopia where I and other colleagues met in January to plan the new venture (funded by the International Water Management Institute and involving 2 UN water agencies). I gave a number of invited talks at meetings in Italy, Luxembourg, Scotland, and Austria this year and to universities in the USA at the University of Colorado, Texas A and M, University of Arizona and UC Berkeley. I continue to work with my Post Docs and PhD students on basic and applied research at the HJ Andrews Site in Oregon, the Savannah River Site in South Carolina, the Maimai watershed in New Zealand, the Kennecott Greens Creek Mine Site in SE Alaska, the Alsea Watershed in Alaska and the PALCO watersheds in CA. One of my students, Holly Barnard, was awarded the Horton Research Grant this year by the American Geophysical Union, “for best PhD proposal in hydrology in 2007”. Check out my group’s web page if you want to know more about this and other happenings: <http://www.cof.orst.edu/cof/fe/watershd>

Glen Murphy

Another busy year has passed. Again this year I taught two mixed undergraduate/graduate classes; FE440/540 Forest Operations Analysis in the Spring and FE441/541 Production Planning and Control in the Fall. I also gave lectures to introductory forestry and forest engineering classes.

I now have five graduate students of my own and am serving on the committees of another five graduate students. They keep me very busy. Dzhamal Amishev, one of my PhD students and a Bulgarian national, had a productive summer collecting wood samples and data, from OSU’s Dunn Forest. These were related to the use of acoustics for sorting logs based on wood stiffness. Francisca Belart, an MSc student from Chile, helped out with Dzhamal’s project as well as continuing her research on the use of near infrared sensors for sorting logs based on wood density. Josh Clark, an MSc student from Texas, had a very productive summer researching the use of hemispherical digital photography for biomass measurement. Josh, with a team of two helpers [myself included at times] manually dragged over 100 tons of limbs and tops to a chipper for chipping and weighing as part of his project – this was a great project for getting fit and losing weight. Two new PhD students joined the team in September; Lewis Jordan, from Georgia, will continue the work that Dzhamal started on the use of acoustics for sorting logs based on wood stiffness. And Sang-Kyun Han, from Korea, will look at the production economics of transporting forest biomass material. In conjunction with some other graduate students I have also worked on the economics of extended shift and 24/7 forest harvesting and on the use of ground-LIDAR systems for assessing Douglas-fir standing tree value.

My research continues to be related to maximizing wood value capture at harvest and aims to help enhance the global competitiveness of the PNW forest sector. I have been the prime author or have coauthored six journal papers that have been published (or accepted for publication this year), five conference presentations, and

developed an extended shift harvesting model since January 2007. I also presented the results of my research to university students in Virginia and Georgia.

In February I spent a week in Ireland helping an Irish group link optimal bucking routines to a ground-laser based system that automatically extracts stem profiles from LIDAR imagery. While I was there I also got to kiss the Blarney stone and drink a pint of my namesake's ale.

Other highlights of the past twelve months include a trip to New Zealand and Australia to visit family and a seven-day fishing and rafting trip on the Grande Ronde River in eastern Oregon. I won't brag and tell you how many fish I landed.

Bob Parker

In 2007 I completed the first Forestry Extension distance education module that will be available through OSU's Extension and Experiment Station Communications (EESC), initially as a CD but later it will also be available as a downloadable file from OSU and county Extension websites. The module, which is on Forestland Taxes, was beta-tested with 12 Master Woodland Managers around the state and their response was overwhelmingly positive. I am currently leading an Extension Forestry team to create several more distance education modules based on the Basic Forestry Short course materials.

Marv Pyles

The past year has gone by quickly. My teaching load has ramped up a bit with enrollment growth in Forest Engineering and in the Construction Engineering Management (CEM) program across campus. FE 101 – Introduction to Forest Engineering has 45 students this fall term, including 11 Forest Operations Management (FOM) majors. The CEM students take the first of our two engineering soils courses in FE, and enrollment growth in the CEM program has increased enrollment in FE 315 – Soil Engineering to just shy of 100 students. Since the class includes a lab, it requires four lab sections. While large enrollments are gratifying on the one hand, there is little doubt that educational quality suffers from such large classes.

Beyond teaching, I continued as the technical editor of the International Journal of Forest Engineering. Journal subscriptions have over doubled in the last two years, which has put the Journal on a sound footing for the future. As I have indicated in the past, you all should consider subscribing to the Journal. A package deal that puts membership in the Forest Products Society together with the Journal subscription is available [consult the Forest Products Society web page].

This past summer was devoted to preparation of the self-study report on the FOM program for the Society of American Foresters, and the beginnings of the self-study report on the Forest Engineering program for the Accreditation Board for Engineering and Technology. The FOM report was submitted to SAF in September for consideration at the SAF National Conference in October. We hope to have the results of the SAF accreditation bid by the end of the academic year. The FE report will be submitted to ABET in June of 2008, in preparation for the ABET accreditation visit in the Fall of 2008.

I am currently working on summarizing the results of 8 years of Alumni surveys that many of you have participated in. We conduct these surveys every two years by sending out a questionnaire to graduates from three to four years earlier. The survey is intended to sample only early career graduates because their experiences with on-the-job applications of the materials that are in the FE curriculum is most relevant to the success of the program. While we believe that the FE program provides a vast array of skill and knowledge that is applicable throughout one's career, the early career is truly critical to long-term professional success. Look for the summary report from the Alumni survey on the FE web page soon.

John Sessions

Along with my seven classes I continue to provide harvest scheduling support to the Oregon Department of Forestry. I also worked with the O&C Counties and the BLM to evaluate alternatives for the Western Oregon Plan Revision for the six Westside districts. I continue to participate as a Department of Interior member on the Interagency Science Team to review the national Fire Program Analysis (FPA) project. I also serve on a BLM-Industry Road Committee evaluating alternative methods for establishing road maintenance rates.

I continue to collaborate with former PhD students, Woodam Chung (2002), Beth Dodson (2004), Abdullah Akay (2003), Kevin Boston (1996) and Visiting Professor Kazuhiro Aruga (2003) and current graduate students. We have 15 papers in press, accepted, or in review during 2007. Earlier this year, Springer released two books, *Harvest Operations in the Tropics*, and *Forest Road Operations in the Tropics* which we authored as a primarily department effort.

Kevin Boston and I continue as faculty advisors to the Oregon State University chapter of Engineers Without Borders (EWB) along with two faculty from Civil Engineering. The goal is to help disadvantaged communities while students gain international experience. We are implementing our first water project in El Salvador.

Arne Skaugset

Elizabeth Toman successfully defended her dissertation during the summer of 2007. Elizabeth started with me in 2001 as an MS student in Forest Hydrology. She completed a dual PhD in Forest/ Civil Engineering. She became only the second female to receive a PhD in Forest Engineering and the first female to get a dual PhD in Forest/Civil Engineering from the Forest Engineering Department. This was a bittersweet event because Elizabeth had been a part of the Department for six years and will certainly be missed. On the other hand it is always rewarding to see another graduate student move forward. Elizabeth and her husband Eric, a recent PhD from the Forest Resources Department, currently reside in Silver Springs, Maryland where Eric is an intern for NOAA and Elizabeth is expecting their first child. They will move on to dual careers, hopefully, at Ohio State University next fall. Kelly Kibler successfully defended her MS thesis this summer and has moved on to a PhD program in the Biological and Ecological Engineering Department at OSU. Tim Otis and Matt Moore will be included in next year's Cable, but they should complete their MS theses by the end of the year.

I have two remaining graduate students, Chris Surfleet and Nic Zegre. Both are PhD students and should finish up within the next year. In addition to the two graduate students, I have three Research Assistants working with me. Dennis Feeney is primarily responsible for data collection at the Trask watersheds. Amy Simmons is wrapping up work on the Oak Creek watershed, has filled in as the Hinkle Creek Research Assistant, and is taking on database responsibilities for the Trask and Hinkle Creek watershed studies. Emily Sinkhorn was recently hired to take over primary responsibility for the Hinkle Creek watersheds.

I taught FE 434/534, Forest Watershed Management and FE 532, Forest Hydrology once again in 2007. In addition, in an effort to get out the research results from Hinkle Creek, I gave presentations at the following conferences: *Riparian Management in Headwater Catchments* in Vancouver, British Columbia, *Watershed Management to meet water quality standards and TMDL's* sponsored by the American Society of Agricultural and Ecological Engineering in San Antonio, Texas, the *Skyline Symposium* in Corvallis in April, the *3rd International Forest Engineering Conference* in Mont Tremblanc, Quebec in October, and the Annual Meeting of the *Society of American Foresters* in Portland, Oregon.

The research on the hydrology of forest roads that was carried out in Oak Creek is completed and is being wrapped up. In Hinkle Creek we are entering the second year of post-treatment data collection. The second harvest entry is schedule to begin during the summer 2008. In the Trask, we go into this winter with about half of the stream gauging installations installed and collecting data and with the funding in place to get the balance of the stream gauging installations put in. Despite looming financial concerns, the *Watersheds Research Cooperative* and watershed studies in the cooperative continue to forge ahead.

On a personal note, on October 10, 2007 I rolled 10,000 miles on my commute bike. I purchased the bike in July 2000 and put the 10,000 miles on it in just a little over seven years almost exclusively from commuting to campus and back from Philomath.

Jeff Wimer

Now we are talking real equipment!!!



Link-Belt and **Triad Machinery** teamed up together to donate a brand new Link-Belt 210 LX loader to the Koller program. The loader has been a real blessing to us.

As I have mentioned in previous articles our equipment is getting old and needs to be replaced, this loader will be a replacement for our John Deere 540B skidder. No more worrying whether we will make it another day with the old machine. No more worrying whether someone will tip it on its side.

The Koller yarder is still plugging along. Everyday we use it we spend about an hour working on the carriage in order to keep it going. I am still hopeful that someday someone will step in and help us out with our yarder situation.

We have been working hard on getting a long term range of units for the program. This last year we were successful in getting approximately 350 acres dedicated to the long range harvesting by the Koller crew. This will be an excellent training opportunity for the students, as well as make my life easier. I am currently having the students put together a 12 month, 36 month and 5 year harvest plan using this area. It is a great exercise for them, and gets them away from just concentrating on the current unit.

I am still looking at putting together some sort of 25 year event celebrating the Student logging training program. I have put together a pretty extensive list of participants in the program, but I still have quite a few gaps to fill. I am missing names from late 1980's to mid 90's. If you participated on the crew, and would like to be included in the 25 year get together event, please email me at jeffrey.wimer@oregonstate.edu. Make sure to include the names of the other members of the crew at the time you worked on the crew. This will help to ensure that the list is a complete as possible.

Michael Wing

I've had a good year in terms of having a variety of project topics to work on and for publishing research. I've also had record enrollments in all three undergraduate courses that I regularly teach and the increasing enrollment trend looks like it will continue into next year. I've added a GPS workshop to augment the GIS workshops that I regularly offer.

Workshop offerings are listed on the web at www.cof.orst.edu/cof/fe/research/gis/workshop/.

ADJUNCT FACULTY

Dave Lysne

Greetings! Steve Tesch and I continue to teach and refine our FE480 Forest Engineering Practice and Professionalism course, significantly changing how we incorporated student exercises in our ethics classes and have revised most of our assignments for our 2007 class this fall. The class continues to mature and improve but it is still a difficult class to teach on Friday afternoons!

This past winter we experienced considerable blowdown on both our McDonald/Dunn Forests and our Blodgett Forest. As a result of the blowdown we were able to defer some planned harvest units while still attaining our revenue target and, after considerable effort, obtained a waiver from ODF to create openings in excess of 120 acres. Unfortunately, past harvests and two years of blowdown have created unstable forest edges that may blow down in coming years.

This past summer we were able to support Glen Murphy's research with "In-forest Acoustic Measurement of Internal Log Properties" on a Dunn Forest clearcut. This research, funded by Roseburg Forest Products, is exploring ways to determine wood properties in the field to maximize the value of logs at the time of harvest by allocating logs to the most appropriate markets.

I am also working with a donor who is donating 52 acres of forest land adjacent to a prior 95 acre donation. We hope to have this second donation wrapped up by the end of the year.

Finally, I am just now starting work on leasing two 40-acre parcels of our Blodgett Forest to a natural gas drilling company. If natural gas is located, we'll receive 3/16ths of the value of the gas as royalties, potentially a significant windfall for the college. The company hopes to drill next spring.

AFFILIATE FACULTY

Jim Wigington

2007 has been a year of transition. The early part of the year has been focused on completing a project that examined the influence of land use activities on salmon and native fish in Oregon coastal streams. We have submitted several journal articles reporting results. My colleagues and I are developing a new project that deals with the influence headwater streams and wetlands have on the ecological condition of navigable rivers. I am the co-author of a journal article that summarizes the scientific challenges of linking small streams and wetlands to navigable waters and will appear in *Frontiers in Ecology and the Environment*.

EMERITUS/RETIRED FACULTY

Bob Beschta

Time continues to fly by. During this past year, Charlaine and I got in a bit of skiing in Colorado's Summit County, did a two-week trip to China, successfully floated (no flipped raft) the Deschutes River, and did some fall hiking in the mountains around Telluride. We also fitted in some visits to our "kids" and grandkids. While China was an interesting country to visit, it's pretty obvious that our trade imbalance with them is fueling a

major construction boom (buildings, highways, and bridges going up everywhere). We also encountered dense smog nearly everywhere we went. Our guides indicated that the city of Beijing will likely “shut down” in order to provide temporary relief during the upcoming Olympics. I continue to do research on “trophic cascades” where we are finding the presence/absence of major predators actually trickles down through an ecosystem and has an important influence on the character of forested riparian ecosystems. While this may seem to be a novel topic of little import, we suspect the ramifications to forest plant communities following large predator loss have been (and continue to be) relatively large in many forested areas of the western US. It’s also been interesting watching the public media grab onto this topic. Hope this finds you all in good spirits and good health.

George Brown, Dean Emeritus

It has been another fun and active year of retirement for me. This past year was the "Centennial Year" for the College of Forestry and Logan Norris and I were asked to co-chair the Centennial Celebration Committee. The College went all-out to recognize and celebrate the accomplishments of the last century. Highlights included a great open house for the campus as part of the 2006 Homecoming, a celebration dinner for major donors who have invested so much of their resources into our college and our students, banners around the College and along Jefferson Street in the middle of campus celebrating the accomplishments of our faculty and staff, special publications and a DVD, and two great Fernhopper Day celebrations. Dean Salwasser and his staff and departmental faculty and their staffs are to be commended on a job well done.

One of the joys of retirement for me has been having the time to volunteer in my church and in our community. I serve on the Board of Directors for a local social services provider called Community Outreach, Inc. or COI. The focus of COI is to help people help themselves recover from homelessness, poverty and addiction to drugs and alcohol. COI also runs free medical and dental clinics for uninsured poor people and their children. One of the impressive things about COI and, indeed, many other socially important organizations in our community (and I suspect yours) such as our hospital and the Boys and Girls Club, is the key role played by people in the forestry community, both in terms of leadership and financial support. We talk to our students about the importance of being involved in the communities in which they work and live and it makes me very proud to see what so many are doing.

Like many retired people, I've enjoyed a year of fun with grandkids, travel and fishing. It has also been great fun to see many of you again at Fernhopper Day and at the recent SAF National Convention in Portland. We really appreciate the on-going support our alumni provide to the College and the Department. You make a real difference in our ability to serve our students, our state and our industry.

Best wishes to you all!

John Garland, Professor Emeritus

The past year was busy and interesting and certainly not "retiring." Pam and I worked together on some workshops for loggers in adjacent states of ID, UT, SD, and in OR. I am a leading advocate for the forestry sector on the National Occupational Research Agenda Council organized by the National Institute for Occupational Safety and Health to set research agendas for the next decade. I also still serve as the public member of Oregon's Forest Activities Safety Code Advisory Committee with Jeff Wimer from FE.

I had some interesting consultancies in Oregon and elsewhere this past year, and Pam and I are now working on a project for Idaho's timber workforce in sawmills, forestry, logging and transportation industries. I still support COFE, IUFRO D-3, and the international forest engineering community. It seems labor force issues are critical in Oregon, the Nation and the World.

Pam and I will see Margo O'Leary (John O'Leary's wife) later this month in Seattle where she lives. I was delighted to write the nomination letter for Emerald Valley Thinning {Tracey and Laurie Smouse (former FE

secretary)) that resulted in naming them Timber Harvesting magazine 2007 Logging Business of the Year. We hope to see family and friends over the holidays and wish the best to the folks in the Forest Engineering Department and College of Forestry for the future. 2008 should be an interesting year!

Brian Kramer

I have had another great year of retirement and it continues to be joyful for me. In June I officially retired my Oregon State professional engineer's license. I am now truly retired. I have been spending much time in my mini machine shop building period knives and tinkering. I have taken up a new hobby, making cowboy era jewelry for both cowboys and cowgirls and leather work. I build leather knife sheaths and cowboy era leather clothing.

This summer Mari and I took several camping trips in western Oregon to the coast and the desert and enjoy this activity very much. We took camping trips with friends and have a great time. Camping is our main recreation activity. Mari outfitted our trailer with all the amenities of home and camping has always been a delightful experience for us.

I have taken up some serious history reading and read Greek history this past year. This fall and winter I am into American civil war history. I also read western historical novels.

This winter quarter I will take the advanced Italian language class at LBCC. It has been 50 some years since I lived in Naples, Italy but the language is coming back to me easily as I lived there for three years and spoke the language with some fluency.

In closing, I hope to see everyone at the next Forest Engineering get-together at the Oregon Logging Conference in February.