MESSAGE FROM THE DEAN

In our Fall 2004 newsletter, we noted the launching of Campaign UW’s public phase and thanked our many campaign supporters. Now, more than three years later, we celebrate, along with our centennial year, a record of successful fundraising to insure the College’s contribution to natural resource and environmental challenges through the 21st century. I’m pleased to report that, with your help, we have reached 95 percent of our $17.7 million fundraising goal, with more than a year left to go!

Our vision and priorities for Campaign UW are consistent with our adoption of sustainability as a guiding paradigm. Drawing on the two key integrating concepts of sustainable forest enterprises and sustainable land and ecosystem management in an urbanizing world, we continue to guide our educational, research, and outreach programs to excellence in a changing global environment. To succeed, we must:

• ensure teaching and learning that enable professionals, scientists, decision makers, and citizens to lead in meeting natural resource and environmental challenges
• develop partnerships with all stakeholders to identify issues and solve problems
• support a well-educated and diverse faculty with opportunities to grow professionally
• provide well-prepared, motivated students with enhanced learning opportunities and state-of-the-art facilities and infrastructure
• foster initiatives for sustainable forestry, forest enterprises, and urban and wildland environments

In all of these areas your generous support has provided, among many other examples:

• New endowed student support, including the James and Marionelle Bethel Graduate Fellowship, the Thomas Swen Friberg Fund for Student Support, the W. G. Reed Fellowship in Sustainable Resource Sciences, the

Legislative Reception Kicks Off College’s 100-year Celebration

At the same time that its faculty, staff, and students have been helping the state look to the future concerning working forests and the potential for biofuels from woody debris, the College of Forest Resources kicked off a year-long celebration of its 100th anniversary at the state capitol in Olympia in January.

More than 200 alumni, faculty, staff, and other guests attended the event in the capitol’s rotunda, where they visited with students from the College during a reception and poster session on research about the sustainability of Washington’s natural resources. The program featured remarks by Governor Chris Gregoire, UW Provost Phyllis Wise, and Dean Bruce Bare. Governor Gregoire has proclaimed 2007 the “year of the forest” in honor of the College’s centennial.

Since the beginning of the year, College researchers have briefed legislators and their staffs about the results of five studies commissioned by the Legislature that provide the latest information about the health of Eastside Washington forests, pressures to convert forests to other uses, and the potential and challenges for the state’s forest products industry and its rural communities that have historically depended on forestry. In related research, the College has been investigating the potential for improving biodiversity and producing bioenergy from woody debris in conjunction with thinning fire-prone forests.

Additional input and comment on the study results was provided by the College’s Northwest Environmental Forum during several sessions in which representatives of forest companies, small landowners, environmental advocates, Native American tribes, the legislature, and agencies concerned with Washington’s working forests discussed forest management for commodities such as timber, as well as for environmental services like fresh water and wildlife habitat.

In other Centennial events, the College sponsored a winter lecture series at the UW with speakers alumni Steven Anderson, President of the Forest History Society; Commissioner of Public Lands Doug Sutherland, who manages the Washington Department of Natural Resources; and Dean Bruce Bare.

Upcoming centennial events include the Spring Tree Safari, the annual Scholarship Luncheon, and the College’s Graduation celebration, all on the UW Seattle campus. For a complete calendar of centennial events see http://www.cfr.washington.edu/About/CFRCentennial.htm.
NatureMapping, a biodiversity survey, training, and monitoring program, got its start in Washington as a pilot project in 1993. The program has two components: a biodiversity survey program, allowing citizens, school groups, and professionals to enter and download wildlife observations and water quality measurements into a statewide biodiversity database; and a progressive set of workshops to train NatureMappers in data collection and monitoring. Workshops are tailored to specific groups such as teachers, local communities, Washington State Parks, and Certified Forestry landowners. College staff member Karen Dvornich works with the Washington Cooperative Fish and Wildlife Research Unit at the UW as co-founder and director of the Washington NatureMapping Program.

The 1983 pilot project was a partnership between the Cooperative Research Unit and the state's Department of Fish and Wildlife that asked a group of 23 teachers and four farmers to collect data for a statewide biological database for conservation and stewardship planning at multiple scales. The vision has grown to a goal of developing a network of NatureMapping training centers using informal science education organizations to facilitate interaction among their staffs, scientists, informal science educators, and citizens on local and regional field research projects. Currently, Dvornich is working with eight centers across the state to train and mentor staff in NatureMapping protocols. Thousands of citizen scientists, professionals, graduate students, and K-12 teachers and students are now submitting NatureMapping data. Data for over 420 vertebrate species (110,000 observation records) were recently peer-reviewed and submitted for updating Washington Gap Analysis maps, a project identifying areas of high conservation priority.

A recent project in the Puget Sound region involved Tacoma School of the Arts sophomores, who began a long-term inventory of the City of Tacoma's Oak Tree Park using PDA/GPS units with NatureMapping's data collection software. The students received NatureMapping training as part of an intensive three-week introduction to learn about wildlife and habitat. The project goal is to identify the best places for trails and signs and where to remove non-native species, as well as to develop materials that can be used by other groups. The students' artwork was part of the project, and it was presented at a show hosted by the Tacoma Nature Center and shown in other locations throughout the community.

Visitors Li Yali, Yang Jie, Zhu Zhongfu, and Chen Haoran at IslandWood Environmental Education Center.

Journal illustrations by Erma Smith.

Color illustrations: Golden-crowned Kinglet (left) by Cidney Lange, Scrub Jay (top) by John Farrell.
CORRIM Meets at UW
Researchers from around the world involved in the environmental performance of wood as a renewable resource in construction met at the College in late January to build a collaborative research agenda. The two-day workshop, coordinated by the Consortium for Research on Renewable Industrial Materials (CORRIM), http://www.corrim.org/, featured presentations and a discussion of issues and future research directions. Participants came from Finland, Sweden, New Zealand, and the U.S. The workshop was created to bring together international work on the environmental performance of using wood versus non-wood building products and its impacts on carbon. The workshop was organized by Bruce Lipke, CORRIM President and College faculty member, and Lauri Valsta, visiting scholar at the UW from the University of Helsinki in Finland.

Wood Quality Evaluation Study in Sawmilling Phase
The Stand Management Cooperative's (SMC) AGENDA 2020 project "Non-destructive evaluation of wood quality in standing Douglas-fir trees and logs" recently entered its sawmilling phase. SMC crew and cooperators from the USDA PNW Research Station recently began log scaling to obtain acoustic velocity and knot data, bucking logs, and measuring cookies in the South Union Sawmill log yard in Elma, Washington. This followed earlier testing on veneer logs at the Weyerhauser mill in Foster, Oregon. The logs were sawed into 24x and 26x lumber, dried, planed, graded, and then shipped to the U.S. Forest Products Laboratory for testing of mechanical properties. That laboratory is currently testing the veneer that was shipped from the Weyerhauser mill at the beginning of the year. SMC researchers are reviewing tree and log data and analyzing standing tree acoustic velocity data from earlier project phases.

Highlights
Recent faculty honors included the Northwest Scientific Association Outstanding Scientist Award given to Linda Brubaker for her significant contributions to science in the Pacific Northwest; the honor of Fellow of the Soil Science Society of America awarded to Rob Harrison for his achievements in education, research, service, and leadership; and the National Park Service Research Award to PNW CESU co-leader and affiliate faculty Darryll Johnson for his contributions to social science research in the national parks.

The UW and the University of Guadalajara, Mexico recently signed an agreement for student exchange between the two universities that will include exchange between the College and the University of Guadalajara's graduate programs in natural resources. The College also signed an agreement with Seoul National University's College of Agriculture and Life Sciences providing for the exchange of faculty, graduate students, and research scientists.

The Yakama Tribal Natural Resources Scholarship, a new endowment through the UW's faculty-staff retiree Campaign for Students, will support undergraduate students in the College who qualify as tribal members of the Yakama nation and who are studying natural resource conservation and stewardship. The College's graduate program was chosen to receive an Achievement Rewards for College Scientists Fellowship for use in recruiting an outstanding new student entering in the 2007-08 academic year. The award provides a total stipend of $17,500 over three years.

The College participated in an interdisciplinary Graduate Education and Research Trainingship (IGERT) proposal that was recently recommended for funding. The IGERT, with partnership from the Colleges of Forest Resources and Engineering, the Lawrence Livermore National Laboratory, and the Yakama and Quinault Nations, would support the development of a multidisciplinary, multicultural graduate education and research program in bioresources-based energy for sustainable societies.

In the January 12, 2007 Chronicle of Higher Education report on rankings of doctoral programs in the U.S., the College's program was ranked second in the nation in the 2005 Faculty Scholarly Productivity Index.

The Water Center's Annual Review of Research on February 14, 2007, included posters and presentations on a wide range of topics including water resources, stream restoration, urban water management, natural resources policy, geology and geomorphology, and climate change and variability. Faculty, affiliates, and graduate students from the College participated in the review, including Rob Edmonds, Christian Torgerson, Peter Kiffney, Cindy Flint, Jessica Taylor, and Julia Helen Tracy.

The Washington Park Arboretum's display garden at the 2007 Northwest Flower and Garden Show, February 14-18, 2007, was presented by the Arboretum Foundation in cooperation with UW Botanic Gardens and Seattle Parks and Recreation, and featured a garden suited for small lots, native plants, and urban communities.

The Denman Forestry Issues Series on April 30, 2007 presented speakers on “Trust and Transition: Perspectives on Native American Forestry.” Denman programs are recorded by UWTV in digital format and broadcast nationwide on the UWTV cable channel and the ResearchChannel. They can also be viewed via streaming video at the UWTV website. The series is funded with support from Mary Ellen and W. Richard Denman.

A new endowed fund in the College will provide support for education and outreach programs at the Olympic Natural Resources Center. Established by the Rosmond family, the endowment honors logging engineer alumni Frederic Rosmond ('38) and memorializes his dedication to the field of applied forestry science and education.
L. Monika Moskal (“L” for Lodmila, but she goes by “Monika”) is the College’s new Assistant Professor in remote sensing and biospatial analysis. Moskal was selected from a pool of finalist candidates in a nationwide search conducted last spring by the Precision Forestry Cooperative (PFC). She is one of nine new faculty members hired by the College in 2006.

Originally from Poland, Moskal’s undergraduate and master’s degrees are from the University of Waterloo (Ontario) and the University of Calgary, respectively, where she studied remote sensing and GIS in environmental applications. After completing her master’s degree, Moskal supervised a remote sensing project at the University of Calgary involving grizzly bear habitat mapping in the Canadian Rockies. She received her PhD from the University of Kansas in 2005; her dissertation research was on spatiotemporal patterns of post-disturbance forest regeneration in the Yellowstone region.

From 2003 to 2006 she was an Assistant Professor at Missouri State University, where she focused on eastern cedar encroachment, urban expansion and forest fragmentation, and monitoring management practices that enhance the heterogeneity of tallgrass prairie ecosystems.

Moskal’s main focus in her work with the PFC will be developing precise forest inventories from state-of-the-art remote sensing tools such as LiDAR (Light Detection and Ranging) hyperspectral, hyperspatial, and hypertemporal sensors. Specifically, she is working on ways to fuse multiple data sources to improve inventory parameters such as health and species, and on ecological applications of LiDAR data such as forest structure characterization, riparian area delineation and shading, and invasive species susceptibility.

Collaborative projects include a pilot study with new faculty member Soo-Hyung Kim to estimate the carbon budget of urban forests using LiDAR-derived Leaf Area Index (LAI) estimates of the Washington Park Arboretum. The project will generate future funding for larger scale research in the Pacific Northwest and internationally. Future collaborative projects with CFR and other UW faculty include the human and social dynamics of invasive species spread and developing inventories for sustainable bioenergy sources.

Moskal teaches classes in aerial photo and remote sensing applications in natural resources management, and a graduate seminar in geospatial techniques for precision forestry.

Along with Dave Manuwal and John Manzelli, she led a wildlife science field trip to Yellowstone National Park over the 2007 spring break. You can find her in Bloedel 354 or bicycling to work along the Burke-Gilman Trail while avoiding the bumps, puddles, and occasional coyotes!

Dean’s Message continued

William McKeen Scholarship, the James Ridgeway Faculty Fund, the William A. Eastman Fund for Student Support, and continued gifts to the Lockwood Fund for Program Advancement. We are currently raising funds for the Grant and Venonah Sharpe Fellowship in Parks and Wildland Sustainability, and the Yakama Tribal Natural Resources Scholarship.

• New endowed professorships, including the Weyerhaeuser Professorship in Paper Science and Engineering, the Deman Professorship in Sustainable Resource Sciences, and the David R.M. Scott Professorship.

• A new endowed chair, the Deman Chair in Bioresource Science and Engineering to fund research on sustainable bio-based products and sources of energy that better serve society.

• Support for the Northwest Environmental Forum and our research and outreach centers like the UW Botanic Gardens, including an outpouring of support for the rebuilding of Merrill Hall, that allows for enhancement of partnerships across the wide range of our stakeholders.

• Planned gifts, including the Deman, Lauridsen, and Soest trusts, along with other generous bequests.

Our students and our faculty thank you — your generosity will transform their lives. And we hope to see you here at the College during our Centennial Year Celebration!

Bruce Bare

Upcoming Events Calendar

MAY 9, 2007
Centennial Scholarship Luncheon
UW CAMPUS

MAY 17, 2007
Review of Center Research
UW CAMPUS

MAY 19, 2007
Centennial “Garb Day”
PACK FOREST

MAY 23, 2007
Centennial WPPA Annual Meeting
UW CAMPUS

MAY 26, 2007
Centennial Spring Sahara
UW CAMPUS

JUNE 8, 2007
Centennial Graduation Celebration
UW CAMPUS

NOVEMBER 3, 2007
Centennial CRRA Gala and Banquet
UW CAMPUS

CIFR News

Please direct all corrections and inquiries to CIFR News, University of Washington, College of Forest Resources, Box 352100, Seattle, WA 98195-2100. www.cifr.washington.edu/cece@u.washington.edu phone: 206-543-3075

Share your news: CIFR alumni activities and successes are of interest and inspiration to faculty, students, staff, alumni, and friends of CFR. Update your contact information at http://www.washington.edu/alumni/addrchange.html.

This newsletter can also be found on line at www.cifr.washington.edu.