Throughout 2009 UW Botanic Gardens and its partners City of Seattle Parks and Recreation and the Arboretum Foundation are celebrating the 75th anniversary of the Washington Park Arboretum. Established in 1934 by an agreement between the UW Board of Regents and the City of Seattle, the Arboretum is a beloved park and horticultural resource for citizens of Seattle and the Pacific Northwest and a place where visitors from around the world can experience the beauty and tranquility of nature. It is also an important resource for scientific discovery in biodiversity and plant conservation, holding some of the leading collections of woody plants in North America. The College’s long involvement with the Arboretum goes back to its beginnings when early figures in the College’s history like Edmond Meany, Henry Schmitz, and Hugo Winkenwerder played instrumental roles in the Arboretum’s establishment and development.

MESSAGE FROM THE DEAN

Another productive academic year for the College is well under way, in which we strengthen our leadership role in the discovery and sharing of knowledge and tools to sustain the natural resources of our region and the planet. We are especially pleased this year that our undergraduate programs have shown double-digit growth for three years in a row, underscoring the value of our curricula with access to some of the greatest field laboratories in the world!

We all understand that “nothing remains without change.” The College of Forest Resources has renewed and transformed itself over its 100-year history, continually strengthened by its resolve to offer high-quality and high-impact programs and to remain relevant and visionary. This process of change continues unabated as the UW shapes its new College of the Environment, in which our College will assume a major role. As we look forward, our commitment to sustain our natural resources and environmental services will continue to be a top priority. And as a core unit in the new College of the Environment, we will offer academic and research programs that focus on this goal.

The new College of the Environment is scheduled to launch in Fall 2009. The administrative processes to incorporate units that have voted to join the new college are being initiated now and are expected to be completed by the end of Spring 2009. A committee, appointed by the Faculty Senate, will oversee the required process; as soon as we have information on committee membership and how the process will incorporate public input, we will

continued on page 3

Pacific Connections Garden —
Ushering in Washington Park Arboretum’s 75th Anniversary

Throughout 2009 UW Botanic Gardens and its partners City of Seattle Parks and Recreation and the Arboretum Foundation are celebrating the 75th anniversary of the Washington Park Arboretum. Established in 1934 by an agreement between the UW Board of Regents and the City of Seattle, the Arboretum is a beloved park and horticultural resource for citizens of Seattle and the Pacific Northwest and a place where visitors from around the world can experience the beauty and tranquility of nature. It is also an important resource for scientific discovery in biodiversity and plant conservation, holding some of the leading collections of woody plants in North America. The College’s long involvement with the Arboretum goes back to its beginnings when early figures in the College’s history like Edmond Meany, Henry Schmitz, and Hugo Winkenwerder played instrumental roles in the Arboretum’s establishment and development.

UW Botanic Gardens Gardener Ryan Garrison transplants the Chilean Laurelopsis philippiana into the Pacific Connections Chilean entry garden.
For more information on the Northwest Environmental Forum and the October Forum on Washington’s Working Forests, see http://www.nwenvironmentalforum.org/.

In October 2008, the College’s Northwest Environmental Forum convened 90 natural resource managers and policy leaders from the forest industry, small private landholders, non-government organizations, tribes, and local, state, and federal governments for the fifth in a series of forums to focus on Washington state’s working forests. A key driver of the Forum agenda was a statewide land parcel database developed by researchers at the College. Funded initially by the Family Forest Foundation, the database will provide parcel information such as ownership, land uses, land values, and zoning values, as well as forest characteristics like streams, roads, wetlands, and geological features, for every Washington county.

The database allowed Forum participants to assess working forestland retention strategies and develop recommendations that were transmitted to the Legislature in December. These include provisions for biomass and forest health, transfers of development rights, Landowner Mitigation Program funding, “right to practice forestry” legislation, funding to enhance the land parcel database, and creation of a Legislative task force on strategic retention of working forests and forest industry.

Forestlands in Washington provide a wide array of products, services, and benefits to the state’s citizens and beyond. Western Washington forests are being converted when the land becomes more valuable if used for such things as suburban housing and commercial development. New research says the process in the coming decade could consume more than 300,000 acres of forest, an amount of land comparable to five cities the size of Seattle.

Evaluating recent College research on the conversion of forestland to non-forest uses, the forest and biodiversity values of critical forest areas, and programs and market-based strategies to offset forest conversion, the October Forum responded specifically to a 2007 Legislative request for recommendations on how to retain the highest valued working forestlands at risk of conversion.

Pacific Connections is a long-term project that will take a generation to reach maturity. Plants will be collected through seed exchanges, propagation, and expeditions, and will gradually replace the existing collections. In this first phase covering 4 acres, five entry gardens have been planted and an interpretive shelter built. In coming years, another 11 acres will be developed.

Pacific Connections is one of the projects envisioned in the Arboretum’s long-range master plan, approved in 2001. The plan ensures that the Arboretum will effectively fulfill three primary purposes — conservation, recreation, and education — for decades to come. Key elements include renovation of 30 existing plant exhibits and creation of 21 new plant exhibits, reorientation of some pedestrian trails and construction of two pedestrian overpasses, renovation and expansion of facilities in the vicinity of the Graham Visitors Center, construction of a new pavilion and entrance to the Japanese Garden, and traffic flow improvements.

Fundraising is key to fulfilling the master plan and for support of additional needs, such as a funded curatorship, to bring the Arboretum to a place of preeminence among botanical gardens worldwide. For information on how you can help, call 206.543.4060.

For information on the anniversary’s scheduled events, including an April 7th lecture by Dan Hinkley (’85), visit the 75th Anniversary Web page at http://depts.washington.edu/wpa/75years.
Surpassing our $17.7 million campaign goal, the College raised $21 million during Campaign UW: Creating Futures, a testimony to our more than 100-year legacy of philanthropy. Just as important as this monetary achievement is the growing awareness and support of the College’s role in sustaining our Northwest world and beyond. The outcomes we most value are an increased understanding of the ecological, social, and economic bases for the sustainability of our planet’s resources and the work of discovery and exploration to sustain these resources for future generations.

The three-way partnership of support from state funding, sponsored research, and private donors helped the College achieve many successes; notable accomplishments include:

- Continuing success in recruiting new faculty with the hiring of an additional assistant professor for academic year 2007-2008 in the field of natural resource economics (joining ten new faculty hired in the last two academic years).

- Ongoing programs in forest management, forest technology transfer, and the study of forested ecosystems carried out by the Precision Forestry Cooperative, the Rural Technology Initiative, the Stand Management Cooperative, the Olympic Natural Resources Center, the Center for International Trade in Forest Products, the Center for Sustainable Forestry, The Water Center, and the Wind River Canopy Crane Research Facility.

- A double-digit increase in undergraduate enrollment for academic year 2007-2008.

- Major work on the UW Botanic Gardens Pacific Connections Garden in the Washington Park Arboretum, the largest addition since the Arboretum was founded in 1899.

- A healthy research program, with total expenditures of $8,034,964 in fiscal year 2008.

- The Future of Washington Forests project, facilitated by the Northwest Environmental Forum, providing an opportunity for stakeholders across the state to come together to help sustain a threatened and highly valued resource for our state — our working forests.

- Continuing progress on the establishment of the Wind River Canopy Crane Research Facility as the Pacific Northwest Domain for the National Ecological Observatory Network (NEON).

- Productive partnerships with the Washington Pulp and Paper Foundation to fund scholarships and fellowships in paper science and engineering and bioresource sciences; the PNW Cooperative Ecosystems Study Unit to improve the scientific base for managing federal lands; and with our Visiting Committee and other advisory boards that serve our College so well.

You can take pride in how our College, with your generosity, is serving our region and the world.
that has been in use at the crane for 12 years. The new
to help us design and purchase new instruments.” The
global carbon cycle, we were grateful for donor funding
understanding the role that natural forests play in the uptake
Says WRCCRF manager Ken Bible, “Our current instruments
dioxide exchange in near real time. This new system will allow
system, however, will be one of the first installations of the
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Carbon Flux Measurement: Helping to Understand the Global Carbon Cycle

Generous gifts during fiscal year 2008 from the Brainerd,
Kongsgaard-Goldman, Lezar, 4444, and Willburforce
Foundations, from Douglas and Margaret Walker, and from
anonymous donors helped the Wind River Canopy Crane
Facility (WRCCRF) update its carbon flux measurement
instruments. These measurements play an important role in
understanding the global carbon cycle and the role that
old-growth forests play in climate change.

Says WRCCRF manager Ken Bible, “Our current instruments
are at the end of their lifespan. Given the importance of
understanding the role that natural forests play in the uptake
and sequestration of carbon dioxide and how this relates to the
global carbon cycle, we were grateful for donor funding to
help us design and purchase new instruments.”

The instruments planned for installation in spring 2009, continue
the Eddy Covariance technique for continuous measurement of
the carbon flux between a 500-year-old Douglas-fir-
western hemlock old-growth forest and the atmosphere
that has been in use at the crane for 12 years. The new
system, however, will be one of the first installations of the
Campbell Scientific Inc. (CSI) closed-path system, which
continuously monitors its own health and calculates carbon
dioxide exchange in near real time. This new system will allow
researchers to focus on specific components of the carbon
cycle, like soil, woody debris, and leaves, resulting in a more
accurate understanding of forest ecosystem carbon dynamics.

Says Bible, “We’d like to help answer an important question:
Are old-growth forests in the Pacific Northwest continuing
to accumulate carbon as a result of photosynthesis or are
they net sources of atmospheric carbon dioxide as a result of
tree death and decomposition processes? The carbon flux
data from Wind River will help the identification and
magnitude of changes associated with climatic warming.”

Add WRCCRF Director Jerry Franklin, “Our carbon flux
measurements are widely available to scientists, policy
makers, and citizens who are involved in developing climate
decision changes. This information is being used in developing
and evaluating alternative roles for forests in national and
global carbon policies.”

Located in the Gifford Pinchot National Forest in southwest
Washington, the Wind River Canopy Crane was erected in 1995 as a
cooperative venture of the USDA Forest Service and the UW
College of Forest Resources.
Taking Care of the Washington Park Arboretum

Ruth Mary and Don Close’s generous gift of $200,000 to UW Botanic Gardens for support of maintenance in the Washington Park Arboretum continues a long-standing family tradition. Years ago, Ruth Mary’s parents, Clarence and Marian Larsen, established an endowment to provide funding for the same purpose. In honor and memory of the Larsens, this gift will be added to their parents’ endowment. The Closes had been very active in the Arboretum Foundation — she served as president. When asked why she chose to fund this gift, she said, “We were both avid gardeners, so we know how important proper care is.”

In addition to managing plant health, UW Botanic Gardens grounds crews also install new trees in the Arboretum, from rare exotic species to beautiful local favorites. Some highlights from the 2007-2008 planting season included: two from rare exotic species to beautiful local favorites. Some highlights from the 2007-2008 planting season included: two

The Arboretum’s nearly 4,600 kinds of plants, one of the premier woody plants collections in the U.S., are a tall order to take care of. Their maintenance and care is closely tied to the Arboretum’s mission of education, conservation, and display. Conservation includes management for insect and disease pests, weak and dead plant removal, hazardous plant, replacement, and landscape restoration. Employing a holistic approach to managing plant health, Arboretum gardeners and arborists combine the use of carefully timed, least toxic control applications, cultural practices to improve plant vigor, and the removal of severely affected plants. The challenges run the gamut from spruce aphid infestations to root rot diseases of large trees, and monitoring and follow-up evaluations are important management tools.

In addition to managing plant health, UW Botanic Gardens grounds crews also install new trees in the Arboretum, from rare exotic species to beautiful local favorites. Some highlights from the 2007-2008 planting season included: two...
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Visit the College of Forest Resources website at

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Bruce and Susan Asplund
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College of Forest Resources at a Glance 2007 – 2008

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<tr>
<th>STUDENTS</th>
<th>MAJORS</th>
<th>FEMALE</th>
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<th>MINORITY</th>
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<td>Total: 65,982</td>
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DEVELOPMENT (FY 2006)

Individual Contributions: $689,154
Corporate/Foundation Contributions: $1,803,265
Value of Endowed Funds: $30,978,121

Total: $2,552,419

Visit the College of Forest Resources website at www.cfr.washington.edu.

For more information call or write:
Tom Mentele
Director of Advancement
1078 Andover, Suite 392-100
Seattle, WA 98134-2100
206-543-9599
email tmentele@u.washington.edu
RESEARCH EXPENDITURES (FY 2008): $8,034,964

DEVELOPMENT (FY 2008)

Totals 362
154 67 25 88

MAJORS FEMALE ETHNIC MINORITY INTERNATIONAL DEGREES AWARDED

College of Forestry Resources at a Glance 2007–2008

Associate Professors 1 6 7

Total $2,552,419

RESEARCH TEACHING TOTALS

689,154

Number of Endowed Funds:

College News

Mark Dyrey ('73, '76) is a research scientist in entomology at Archbold Biological Station near Lake Placid, FL.

Todd Thorn ('82) is a natural resource manager with the Colville Confederated Tribes Environmental Trust Program in Nespelem, WA.

Vicki Christiansen ('83) is the new Arizona State Forester. She was previously the Washington State Forester and held other positions within WAFDR during her 26-year career serving the State of Washington.

Hugh Slade Gleaton ('90) directs the South Carolina Trust for Public Lands.

Lorna (Furtado) Gilmour ('93) teaches science at Issaquah Middle School. She was honored by the State Superintendent of Public Instruction as the 2008 Teacher of the Year for the Puget Sound region.

Byron Rot ('83, '85) manages the Jamestown S’Klallam Tribe’s Habitat Program in Port Townsend, WA.

Ayn Whytemare ('94) is founder and owner of Find•Well Farm, a native plant nursery and landscape consulting business in Pembroke, NH.

Recent Faculty Titles

Affiliate faculty and alumn Robert Van Pelt ('91, '95) authored a new publication for the WA Department of Natural Resources, Identifying Old Trees and Forests in Eastern Washington. The book is a companion to Identifying Mature and Old Forests in Western Washington; both are part of a project on the definition and inventory of old growth forests on WDA-managed State lands. Gordon Bradley, John Mazzuf, and Clare Ryan were among co-authors of Urban Ecology: An International Perspective on the Interaction between Humans and Nature. Jerry Franklin co-authored Salvage Logging and its Ecological Consequences, which gather and synthesizes the latest research and information about the economic, ecological costs and benefits, and the impacts of salvage logging on ecosystem processes and biodiversity.

Bob Edmonds as Interim Director of The Water Center, and new Research Associates Matt Davies, working with UW Botanic Gardens, and Indriemui Ganguly, working with the Center for International Trade in Forest Products. Faculty retirements include Jim Agee, Bob Lee, Dave Manouval, and Gerard Schruder. Professor Emeritus Richard Taber was awarded the Aldo Leopold Memorial Award, the highest honor bestowed by the Wildlife Society. Taber taught at the College from 1968 to 1985, and originated the College’s wildlife science program.

On October 20–21, 2008, the Consortium for Research on Renewable Industrial Materials (CORIM) held a workshop at the College on developing life cycle environmental inventory information for the collection and processing of woody biofuels. Faculty and staff participants included the College included Renata Bura, Rick Gustafson, Brooke Lipski, Larry Mason, Jim Mc-Carter, and Elaine Oein.

Stephen Ash joined the College this autumn as Assistant Professor in the human dimensions of natural resource management. Ash received a PhD from the University of Minnesota, and has been working with the Minnesota Department of Natural Resources. A search continues for a non-tenure track research position in wildland fire science.
College Welcomes Dr. Sergey Rabotyagov

Sergey Rabotyagov is one of 12 new faculty members recently recruited by the College; he was appointed Assistant Professor of Natural Resource Economics in October 2007 following a nationwide search. He grew up in Belgorod, Russia, and holds MS and PhD degrees in economics from Iowa State University.

He first came to the U.S. as an exchange student, as part of a program to promote natural exchange between the former Soviet Union and the U.S. Says Rabotyagov, “I was told by former U.S. Sen. Bill Bradley, one of the program creators, that it cost the federal government less to host an exchange student for one year than to fire an artillery round from a tank!”

Rabotyagov’s graduate research focused on uncertainty in agricultural soil carbon sequestration, mitigation policy design, and optimal forest management for reducing nutrient runoff into waterways. His current interests also include understanding the impacts of energy crops on water quality, the economic value of urban birds, and policies for efficiently procuring ecosystem services from forested lands.

Finding solutions for reducing non-point source pollution remains of great interest to him. A current research project, “Understanding land use decisions and watershed-scale interactions: Water quality in the Mississippi River Basin,” brings together hydrologists, economists, marine biologists, and agricultural engineers to work on an integrated simulation-optimization system that prevents non-point source pollution from the Upper Midwest to the Gulf of Mexico, and to find the best way for reducing upstream water quality and the hypoxic (dead) zone in the Gulf of Mexico. Recently, Rabotyagov was a part of a research team obtaining U.S. EPA funding for similar research on a smaller scale.

Rabotyagov says, “Using the latest scientific modeling tools in conjunction with optimization, we can help design better policies for achieving needed water quality improvements at least cost to society.”

Rabotyagov teaches courses in environmental economics and research design. He is married and lives in North Seattle, and says “I enjoy living in a region with such a diversity of people, cultures, and natural beauty.”

Dean’s Message continued

let you know. Until the process is completed and adopted by President Emmert and the Regents, our College remains an independent college.

The current economic crisis, with its budget implications for the State of Washington, higher education in the region, and research funding nationwide, will require us to examine our priorities and spend our diminished financial resources wisely. One change you will notice in the coming months is our greater reliance on electronic means of communication. Many of you received our January 2009 e-newsletter, a collaborative project with the UW Alumni Association (UWAA). If you do not have a valid email address in your alumni record, please contact the UWAA to have this updated. If you’d like to read the E-newsletter on line, see http://www.washington.edu/alumni/partnerships/ch/200901/index.html. Our production of print newsletters will cease with this issue, and we are developing an online newsletter that will debut in Spring 2009. For the first few issues, we will send you a postcard alerting you to its publication and giving you the Web link. Although our financial resources may be diminished over the coming biennium, we remain rich in the resources of our talented and productive faculty, staff, and students. We are also continually strengthened by your vital support. Our successful participation in Campaign UW: Creating Futures, in which we exceeded our $17 million goal and raised $21 million for students, faculty, and programs could not have happened without you! We appreciate your confidence in our mission; with your support we will continue meeting the grand challenges of sustainability in our economic, physical, and social environments.

We appreciate your interest in our College and look forward to seeing many of you at our events during this academic year. Please contact us with comments, questions, and ideas for how you can get more involved in our community.

B. Bruce Bare

Planned Gift Will Support College’s Programs

Mike Lazar got a master’s degree from the College in 1949. After graduation, he and his wife Carol joined the CFR Alumni Association, in which he was given the 1977 “Honored Alumnus Award.” Mike is also a member of the the Society of American Foresters since 1949, serving as Chapter Officer and becoming an esteemed Fellow in 1990 and Golden Member in 1999. During his career, Mike served as Director of Keep Washington Green from 1951-57, and until his retirement in 1980, he developed a successful international forestry career, assessing and managing forest resources in South America, the Pacific Rim, Canada, and the U.S. Lazar’s consulting firm eventually became a publicly traded company specializing in forestry and resource management around the world. The Lazars recently joined the UW’s Suzzalo Society by adding the College to their estate plans. Their planned gift, The Michael and Carol Lazar Endowed Fund, will provide discretionary support for the College. Says Lazar, “Carol and I want to give something back to the College that will help support its programs far into the future.”

If you would like to learn about making a bequest to the UW, contact the Office of Gift Planning at 206.685.1001, giftinfo@u.washington.edu or the College’s Advancement Office at 206.543.9505, tmentele@u.washington.edu.

Upcoming Events Calendar

MARCH 5, 2009
CFR UWAA Lecture Series
“Sustaining our NW World: Carnivore Conservation in the Pacific NW” UW CAMPUS

MARCH 6, 2009
CFR Graduate Student Symposium UW CAMPUS

APRIL 4, 2009
CFR Centennial Grove Service Day UNION BAY NATURAL AREA

APRIL 7, 2009
Adventures 75th Anniversary Lecture Dan Hinkley, “From Schuon to Seattle” UW BOTTOM AQUARIUM

MAY 14, 2009
Deaner Forestry Issues Series “The Future of Forestry in the Pacific UW” UW BOTANIC GARDENS

MAY 28, 2009
CFR Annual Conference UW CAMPUS

JUNE 12, 2009
CFR Graduation Celebration UW CAMPUS

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

PHOTO CREDITS: Mary Levin, Stand Management Cooperative, Box 352100, Seattle, WA 98195-2100.

Please direct all corrections and inquiries to CFR News, University of Washington, College of Forest Resources, Box 352100, Seattle, WA 98195-2100.

Phone: 206-543-3075

Share your news: CFR alumni activities and successes are of interest and inspiration to faculty, students, staff, alumni, and friends of CFR. Update your contact information at cfrians@washington.edu.

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