

2004-2005 UNDERGRADUATES
Bachelor of Science in Forest Resources

**CONSERVATION OF
WILDLAND
RESOURCES**

Dana S. Chandler
Casey E. Clingan
Justina K. Harris
Benjamin W. MacColl
Kyle M. Smith

**ENVIRONMENTAL
HORTICULTURE AND
URBAN FORESTRY**

Jennifer C. Brennan
Morea D. Christenson
Shawn C. Connor
Lena B. Davenport
Emily J. Johnson
Shinobu Kawashima
Erika L. Knutilla
Christer M. Lundstrom
Adrian Olivas-Fernandez
Leslee Peterson
Kevin N. Ramey
Sarah J. Robertson
Timothy Saunders
Sharon E. Sinclair
Doug Schmitt

**ENVIRONMENTAL
SCIENCE AND RESOURCE
MANAGEMENT**

Randi M. Adair *
Eben M. Babb
Victor J. Biasotti, III
Jessica E. M. Coburn
Patrick J. Ferguson
Jordan T. Gerke
Alia Kroos
Samantha Martin *

Grady A. McCombs
Bryan J. McMeekin
JoEarl Murphy
Elisabeth A. Ord
Ross A. Peritore
Rachel M. Proctor *
Audrie L. Rector
Ryan S. Shinkawa
Angela S. Steel ***
Chris M. Whitson

**FOREST AND ECOLOGICAL
ENGINEERING**

Frederick L. Beck III
Benjamin E. Carlson
Aaron E. Clements
Amelia R. Hawkrigde
Naeem S. Nulwala
Mark D. Williams
Sara J. Wilson
Edwin N. Wong

FOREST MANAGEMENT

Benjamin W. MacColl
Brian K. Ahshapanek
Travis J. Anderberg
Patrick R. Bachmeier
Daniel R. Boudreaux *
Scott E. Burke
Emily J. Coulter
Christy J. McDevitt
Monika C. Nicholson
Brian J. Spradlin *

**OUTDOOR RECREATION
AND MANAGEMENT**

David A. Graves

**PAPER SCIENCE AND
ENGINEERING**

Joseph B. Frey
Jamie L. Schultz
Christopher J. Brawn
David J. Cummings
Aaron L. Halsted
Paul H. Josephson
Jed L. Matson **
Nathaniel R. Pearson
Jered J. S. Seifert
William T. Spohnholtz
Bryana C. Williams

**SUSTAINABLE RESOURCE
SCIENCES**

Jennifer L. Andlovec
Jami M. Donaldson
Tina L. Hendrix
Sarah M. Sparks
Evan B. Vaughters

WILDLIFE SCIENCE

Ian C. Bell
Benjamin P. Brigham *
Kathleen R. Foley
Meghan R. Horne-Brine
Laura L. Hughes
Jennifer M. Ikeda
Emily R. Jones
Kyle F. Kampa
Zaccariah B. Kopra
Sarah J. Kresse
Carrie E. Spradlin ***

Graduation Celebration
2004-2005

COLLEGE OF FOREST RESOURCES
UNIVERSITY OF WASHINGTON

JUNE 10, 2005
KANE HALL, ROOM 120
2:00 PM

WELCOME
Bruce Bare, Dean and Moderator

COLLEGE OF FOREST RESOURCES ALUMNI ASSOCIATION
Alumna Ann Forest Burns

KEYNOTE ADDRESS
Cassie Phillips, Vice President, Sustainable Forestry, Weyerhaeuser Company

GRADUATE STUDENT REPRESENTATIVE
Michael Andreu

PRESENTATION OF GRADUATE STUDENTS BY FACULTY

UNDERGRADUATE STUDENT REPRESENTATIVE
Carrie Spradlin

PRESENTATION OF UNDERGRADUATE STUDENTS BY FACULTY

CLOSING COMMENTS

**A RECEPTION WILL BE HELD IN THE ANDERSON 207 LOCKWOOD FOREST CLUB ROOM
AND ANDERSON 22 IMMEDIATELY FOLLOWING THE PROGRAM.**

~ BACCALAUREATE HONORS ~
BASED ON WINTER 2005 GPA

***** SUMMA CUM LAUDE**
****MAGNA CUM LAUDE**
*** CUM LAUDE**

COVER ILLUSTRATION OF ANDERSON HALL BY:
PROFESSOR GORDON BRADLEY, COLLEGE OF FOREST RESOURCES

THANKS TO THE ALUMNI ASSOCIATION FOR THE RECEPTION REFRESHMENTS AND GRADUATION GIFTS
LESLIE GERMAN, 2003 ALUMNA, FOR THE BEAUTIFUL FLOWER ARRANGEMENTS

2004-2005 GRADUATES

Doctor of Philosophy

Gustavo H. De Negreiros
Understanding and Modeling Ecological Processes Controlling Flammability in Seasonally Dry Evergreen Forests of the Brazilian Amazon

Michael G. Andreu
Linking Silviculture with Emerging Bio-energy Technology to Manage for Forest Health

Erica T. Cline
Mycorrhizal Fungus Communities of Douglas-fir (*Pseudotsuga menziesii*) Seedlings and Trees: Effects of Proximity to Residual Trees

Marianne Elliott
A Canker Disease of Pacific Madrone (*Arbutus menziesii*) Caused by the Endemic Fungal Pathogen *Fusicoccum arbuti* (*Botryosphaeriaceae*)

Kevin L. Fetherston
Pattern and Process in Mountain River Valley Forests

Richard A. Grotendit
Accurate and Cost-Effective Natural Resource Data from Super Large Scale Aerial Photography

Edith C. S. Hall
Life Cycle Assessment of Pacific Northwest Forestry Operations from Seedling Production through Harvesting: Implications for Rational Forest Management

Jon M. Honea
Effect of Salmon Spawning on Seasonal Changes in Structure and Function of Stream Macro-invertebrate Communities

Robin D. Lesher
An Environmental Gradient Model Predicts the Spatial Distribution of Potential Habitat for *Hypogymnia duplicata* in the Cascade Mountains of Northwestern Washington

Lauren A. Mollet
The Use of Remote Sensing, GIS and Multivariate Vegetation Analyses to Explain the Distribution of Riparian Forest Communities at Multiple Spatial Scales

Carrie E. Monohan
Riparian Buffer Function with Respect to Nitrogen Transformation and Temperature along Lowland Agricultural Streams in Skagit County, Washington

Carol J. Volk
Nutrient and Biological Responses to Red Alder (*Alnus rubra*) Presence along Headwater Streams: Olympic Peninsula, Washington

Master of Science

Allegra A. Abramo
Residential Outdoor Water Conservation in Seattle: A Conservation Behavior and Social Marketing Approach to Designing Programs

Anne G. Andreu
Effects of Fall Prescribed Fire on Regeneration from the Seed Bank of Two Western Washington Grasslands

Paul R. Cereghino
Growth Response of Three Native Shrubs Planted as Unrooted Cuttings across a Wetland Elevation Gradient: *Symphoricarpos albus*, *Rubus spectabilis*, and *Cornus sericea*

Dennis R. Chambreau
Long Term Effects of Stump Removal for Root Disease Control on Forest Soil Bulk Density and Nitrogen

Jina K. S. Chan
Effects of Harvest Method and Stratification on Germination of California Beaked Hazelnut (*Corylus cornuta* var. *californica*)

Derek Churchill
Factors Influencing Vigor of Understory Douglas-fir in Prairie Colonization Stands at Ft. Lewis, Washington

Kristine Cramer
Forest Stewardship: Understanding and Action among Family Forest Landowners in Snohomish County, Washington

Michelle A. Da Luz
Characterizing Change in Dispersed Recreation in the Taneum-Manastash Watershed, Wenatchee National Forest

Lucy Edmonds
How Do Leaders of Western Land Trusts Perceive their Relationship to the Environment?

Crystal M. Elliot
Environmental and Historical Factors Driving Vegetation Communities on Russian Island, Columbia River Estuary

Jennifer A. French
Ecological Interactions between Western Hemlock Dwarf Mistletoe (*Arceuthobium tsugense* subsp. *tsugense*) and Insects within an Old-Growth Forest

Julie E. Forcier
Long-Term Trace Metal Retention in a Coarse-Textured Forest Soil after a Heavy Biosolids Application

Melissa Frysztacki
From Public Outreach to Public Engagement, What is Needed from Scientists, Policy Wonks and Citizens for Lake Washington Salmon Recovery?

Linda S. Gaulke
The Effect of Soil Amendments on the Symbiotic Nitrogen-Fixing Relationship of *Alnus rubra* (Red alder) and *Frankia*

Scott A. Gremel
Factors Controlling Distribution and Demography of Northern Spotted Owls in a Reserved Landscape

Erin N. Hagen
Conservation of the Juan Fernandez Firecrown (*Sephanoides fernandensis*): Characterization of Nesting Habitat

Troy Heithecker
Variation in Microclimate Associated with Dispersed and Aggregated Retention of Overstory Trees in Coniferous Forests of the Pacific Northwest

Christina M. Jensen
Nitrogen-Fixing Trees in Small-Scale Agriculture of Mountainous Southeast Guatemala: Effects on Soil Quality and Erosion Control

Lara M. Johnson
Use of a Native Shrub (*Kunzea ericodes* var. *microflora*) and its Mycorrhizal Fungal Associate (*Pisolithus* sp.) to Revegetate Metal-Contaminated Soils in New Zealand

Lara-Karena B. Kellogg
Quantifying Spatial Structures Associated with Low-Severity Fire Regimes in the Eastern Cascade Mountains of Washington, USA

Nicole L. Lang
Soil Seed Bank of an Oregon Montane Meadow: Consequences of Conifer Encroachment

Raymond J. Larson
The Flora of Seattle in 1850: Major Plant Species and Landscapes Prior to Urban Development

Yuzhen Li
Effects of Fertilization and Density on Growth and Yield of Young Douglas-fir Plantations in the Pacific Northwest

Mary E. Liddell
Greening Government Procurement: An Implementation Analysis of State and Local Environmentally Preferable Purchasing (EPP) Initiatives

Garrett C. Liles
Hydrologic and Nutrient Flux from Managed Headwater Streams in Western Washington

Kimberly Litteke
The Effect of Lime and Gypsum Additions on Sinuous Growth in Douglas-fir in Coastal Washington

Michael R. Lolley
Wildland Fuel Conditions and Effects of Modeled Fuel Treatments on Wildland Fire Behavior and Severity in Dry Forests of the Wenatchee Mountain

James A. Lutz
The Contribution of Mortality to Early Coniferous Forest Development

Maria Mayrhofer
Effects of Forest Structural Retention Harvest on Resource Availability and Habitat Utilization of Brown Creepers

Adam G. Mouton
Generating Stream Maps Using LIDAR Derived Digital Elevation Models and 10-m USGS DEM

Sarah C. Murray
Farm-to-College Programs: A Survey and Comparison with the University of Washington

Scott S. Olmsted
Foliar chlorosis in *Rhododendron* Due to Excess Soil Phosphorus

James J. Packman
Land-Use Effects on Suspended Sediment in Puget Lowland Salmonid Streams

Nicholas A. Palazzotto
Legacy Retention, Variable-density Thinning, and Habitat Quality of the Winter Wren in Managed Forests of Western Washington

Kyle Petersen
The Effects of Competing Vegetation Control on the Growth of Douglas-Fir at a High Quality Site in Coastal Washington

Rodney L. Pond
Low Elevation Riparian Forest Restoration on a Former Gravel Mine, North Cascades National Park: Native Plant Germination, Growth and Survival in Response to Soil Amendment and Mulches

Natalia Raffaelli
The Environmental Fate of Lignosulfonates in Soil

Matthew J. Ramsay
The Effects of Soil Amendment and Watering Regime on Germination and Establishment of Direct-Seeded Native Plant Species Used in Subalpine Restoration at Cascade Pass, North Cascades National Park

Amy C. Ramsey
Fungal Endophytes in Woody Roots of Douglas-fir and Ponderosa Pine

Crystal L. Raymond
The Effects of Fuel Treatments on Fire Severity in a Mixed-Evergreen Forest of Southwestern Oregon

Alicia S. T. Robbins
Consumer Willingness to Pay for Renewable Building Materials: An Experimental Choice Analysis and Survey

Luke W. Rogers
Automating Contour-Based Route Projection for Preliminary Forest Road Designs Using GIS

Naomi A. Rotramel
Foliar Effects 23-27 Years after Stump Removal and Fertilization to Control *Phellinus weirii* in Douglas-fir Plantations

Bronwyn Scott
The Temporal Effects of *Ulex europaeus* on Soil Properties, and Modeling Impact of Invasive Species over Time

Delong Song
Characterization of Surface Energetic Properties of Wood Pulp Fibers

Nick Spang
Evaluating the Cost of Budget Administration to Projects in the US Forest Service's Fish Management Program on the Mount Baker-Snoqualmie National Forest-A Case Study of the Snoqualmie Ranger District

Vivek Srivastava
Characterization of Charge on Single Fibers

Tammy L. Stout
Treating Containerized Material as Bare-root Material: A Comparison of Installation Technique

Eric B. Sucre
Estimating Response of Douglas-fir to Urea in Western Washington and Oregon

Joshua T. Tallis
Restoring Mycorrhizal Fungi in Degraded Tropical Soils

Master of Environmental Horticulture

Matt Bennett

Bryon S. Jones
Robert M. McLean

Sarah M. Nielson

Master of Forest Resources

Arnab Bhowmick

Sean W. Dugan

Glen D. Yallup