Applied Genetics: Angie Obermeyer, who was also a student in the University Honors College (UHC), simultaneously completed her BRR degree with three minors: Chemistry, Spanish and Communications. Her research "Optimization of environmental factors for effective detection of Bean yellow mosaic virus in Verbena x hybrida" was mentored by Dr. Bob Martin, USDA-Agricultural Research Service, and Melodie Putnam, Botany and Plant Pathology.

Biotechnology: Caryn Ong completed her research project with Dr. Andrew Ross, and Dr. Jae-Bom Ohm, Crop and Soil Sciences, and Food Science and Technology Departments with her project "Effects of gluten composition and molecular weight distribution on the noodle making potential of hard white wheats". Caryn will continue her work as a graduate student at OSU with Dr. Ross.

Pest Biology and Management: Jane Snelling completed her research project with mentors, Dr. Denny Bruck, USDA-ARS, and Amy Dreves, Extension Entomologist. Her research emphasis was in the efficacy of entomopathogenic fungi for control of the Cabbage Maggot, Delia radicum (L.) (Diptera: Anthomyiidae). She is now working as a research assistant at the Mid-Columbia Agricultural Research and Extension Center, Hood River, OR.

Sustainable Ecosystems: Sara Boatner is employed as a Lane County Extension Agent in the 4-H Youth Development program. Her thesis, "A measure of agricultural literacy in Willamette Valley fourth grade students", was completed with Dr. Jim Rutledge, 4-H Youth Development, and Dr. Wayne Fanno, Agricultural Education.

Kristine Neese is in the process of submitting for publication the results of her undergraduate research project: "Spatial and temporal distribution of soil mesofauna in a managed grassland ecosystem."

Kristine completed ABM dual major, Chemistry and Soil Science minors as well as a USDA sponsored internship. Her research mentors were Dr. Jeff Steiner of the USDA-ARS and Dr. Andy Moldenke of Botany and Plant Pathology.

Update on Graduates:
Laura Barth, BRR-Animal Reproduction and Development option graduate begins graduate school this fall at University of Pennsylvania in the dual DVM/PhD program. Congratulations and good luck!

Joshua Owens, BRR- Biosystems Modeling option graduate, along with wife Corey (CSS graduate) will be leaving for Senegal to serve as international forestry conservation specialist and agricultural practices and food security advocate, respectively. We wish both of them good luck and are sending thanks for their service.

BRR Graduate accepts Peace Corps assignment in Senegal!

Joshua Owens, BRR- Biosystems Modeling option graduate, along with wife Corey (CSS graduate) will be leaving for Senegal to serve as international forestry conservation specialist and agricultural practices and food security advocate, respectively. We wish both of them good luck and are sending thanks for their service.

BRR Student Press

Julie Ream had her research project evaluating the invasiveness of the popular butterfly bush written about in the Corvallis Gazette Times this summer, "Curtailing the spread of a creeping menace." Follow the link on the BRR website to read the entire article: http://agsci.oregonstate.edu/brr/news.html

Joshua Owens (and contributing lab group) published the results of his undergraduate research project in the Journal of Hydrology (289: 111-127). The article is entitled: Analytical methods for estimating saturated hydraulic conductivity in a tile-drained field and the authors include David E. Rupp, Joshua M. Owens, Kristina L. Warren and John S. Selker.
**International Grant**

Kendall Dutcher was selected for the College of Agricultural Sciences’ New Zealand Exchange Program and is currently studying at Lincoln University (visit Strand Ag Hall Rm 137 for more info.) She also received a prestigious $5000 Gilman International grant to study in New Zealand (visit International Programs in Snell Hall and [http://www.iie.org/programs/gilman/overview/overview.html](http://www.iie.org/programs/gilman/overview/overview.html)).

**URISC Undergraduate Research Innovation, Scholarship and Creativity Research Grants!**

**Winter/Spring Award Recipient:**
* Lisa Deskin (Mentor: Dr. Staci Simonich, EMT) “Conifer needles as passive air samplers of semivolatile organic compounds in high elevation ecosystems.”

**($3000) Summer 2004 Award Recipients:**
* Ryan Scholz (Mentor: Dr. Howard Meyer, ANS) “Training lambs to be weed-eaters-Conditioning Ovis Aries for use in the biological control of Brachypodium sylvaticum - a non-native bunchgrass.”
* Aly Mohamed (Mentor: Dr. John Hays, EMT) “Repression of mismatch repair (MMR) by dominant-negative MMR proteins.”

**Fall ’04 Award Recipients:**
* Nita Birdsong (Mentor: Dr. Kim Anderson, EMT) “Determination of Azinophosphate metabolites on apples from Hood River, Oregon.”
* Ryan Scholz (Mentor: Dr. Howard Meyer, ANS) “D.Efficiency of Pre-weaning exposure to Brachypodium Sylvaticum on the grazing habits of Ovis Aries”.

URISC grants are available for summer or school-year awards. For more information visit the research office website at: [http://osu.orst.edu/research/fundingOpps.html](http://osu.orst.edu/research/fundingOpps.html) or call or visit the Research Office in 312 Kerr Admin. Bldg., 737-8390. Winter/Spring 2005 Solicitation:

**Deadline:** Monday, October 22, 2004
**Announcement:** December 10, 2004

**Howard Hughes Medical Institute Summer 2004 Research Program Award Recipients ($3500)**
* Julie Ream (Mentor: Dr. James Altland, North Willamette Research and Extension Center) “The production and invasion of Buddleja davidii in Oregon.”
* Daniel Smith (Mentor: Dr. Jim Carrington, BB) “Phylogeny of micro RNAs.”
* Eli Moore (Mentor: Dr. Staci Simonich, EMT) “Biomonitoring semivolatile organic compounds in the atmosphere using lichen.”
* Ryan Scholz (Mentor: Dr. Howard Meyer, ANS) “Training lambs to be weed-eaters-Conditioning Ovis Aries for use in the biological control of Brachypodium sylvaticum - a non-native bunchgrass.”
* Aly Mohamed (Mentor: Dr. John Hays, EMT) “Repression of mismatch repair (MMR) by dominant-negative MMR proteins.”
* Shannon Bell (Mentor: Dr. Oscar Riera-Lizarazu, CSS) “Decreasing α-gliadins in wheat grains using RNAi.”

For more information visit: [http://oregonstate.edu/dept/ncs/newsarch/2004/Jul04/howard.htm](http://oregonstate.edu/dept/ncs/newsarch/2004/Jul04/howard.htm) or contact Dr. Kevin Ahern (ahernk@onid.orst.edu) or call 737-2305.
Awards and Scholarships.

K-12 National Science Foundation Teaching Fellowships Award Recipient ($10,000)
Shannon Bell will be sharing her passion for science and biotechnology with rural middle and high school students in Oregon. For more information contact Devorah Shamah at 737-8062 or visit the website: http://cropandsoil.oregonstate.edu/gk12/application_responsibilities.htm

Jamie Jaberg has received a federal Student Career Education Program (SCEP) academic support and internship through the United States Department of Agriculture Forest Service as a range management trainee in the Wallowa-Whitman National Forest. For more info. http://www.fs.fed.us/fsjobs/step.html

Adam Wing gained valuable experience working with several forest pathogens (Sudden Oak Death, Port Orford Cedar Root Rot and Western Pine Blister) working with his mentor Dr. Everett Hansen, BPP, and Oregon Dept. of Forestry and USDA Forest Service.

Julie Ream and Kirsten Freed both received E. R. Jackman Internship support stipends. Julie for her work with her mentor, Dr. James Altland at the North Willamette Research and Extension Center and Kirsten while on exchange studying in Hilo, Hawaii and working at the Institute for Cultural Ecology http://www.cultural-ecology.com/ap.html.

Visit Career Services in Kerr Administration for the National Student Exchange Program (NSEP) booklet and GO SOMEWHERE! For internship support see: http://agsci.oregonstate.edu/jobs/cas_isp.html

Doug Heckart and Shannon Bell have each been awarded scholarship support from the Oregon Seed Trade Association. Contact Peggy Mullett in Crop and Soil Science Dept. to apply.

Eryn Cramer received a Ralph E. Berry Entomology Scholarship.

Tuan Huynh received a university Diversity Achievement scholarship.

Agricultural Honors and Continuing Ventures Scholarship Recipients: Shanna Bernal-Fields, Doug Heckart, Ryan Scholz, and Eryn Cramer

CAS Scholarship applications for new and continuing students are due February 1. See: http://agsci.oregonstate.edu/students/schol_current.html

Professional Development and Meeting Travel Awards ($200 each)
Ryan Scholz, mentored by Dr. Howard Meyer, ANS, was awarded funding to attend the OSU Sheep Shearing School this summer for training for his project “Efficiency of pre-weaning exposure to Brachypodium sylvaticum on the grazing habits of Ovis aries.”

Lisa Deskin presented “A method to extract semi-volatile organic pollutants from conifer needles,” at the annual MANRRS Conference March 2004, Des Moines, IA where she placed 2nd in the Oral Undergraduate Research Competition. For more information see OSU Press Release: http://oregonstate.edu/research/student/ufeatures.html

Contact BRR advisor for information to apply at: crannelw@science.oregonstate.edu

Welcome New Students! Ian Baker, Andrew Colburn, John Foster, Jess Holcomb, Tuan Huynh, Lalee Lo, Pachida Lo, Nicole Marshall, Melissa McCaslin, Courtani Pineau, Nicole Robinson, Linda Ruiz, Rebecca Shabazi, Amber Taylor Glad you are here!
Faculty currently serving as BRR Mentors:

Animal Sciences
    Howard Meyer
Biochemistry and Biophysics
    Jim Carrington
Biology
    Deborah Clark
    Everett Hansen
    Jeff Stone
    Mark Wilson
Botany and Plant Pathology
    Jeff Stone
    Mark Wilson
Chemistry
    Claudia Maier
Crop and Soil Science
    Oscar Riera-Lizarazu
    Andrew Ross
Environmental and Molecular Toxicology
    Staci Simonich
    Kim Anderson
    Doug Barofsky
    John Hays
    Jeff Jenkins
    David Williams
    Andrew Buermeyer
    Jan Spitsbergen
Fisheries and Wildlife
    Stan Gregory
    Kathryn Boyer
Food Science and Technology
    Andrew Ross
Forest Sciences
    Jane Smith
    Steve Radosevich
    David Hibbs
North Willamette Research/Extension
    Robin Rosetta
    James Altland
Pharmacy
    Jane Ishmael-Leid
Zoology
    Michael Blouin
    Thanks - we wouldn't exist without you!

Faculty sharing their research programs in BRR-Great Experiments courses:

Fall 2003:
    Henrik Stotz, Horticulture
    Eve Sherr, Oceanography
    Andrew Ross, Crop and Soil Sciences
    Kim Anderson, Environmental & Molecular Toxicology
    Rich Cronn, Forestry Sciences, PNW Research Lab.

Upcoming presentations for Fall:
    Maria Dragila, Crop and Soil Sciences
    Jerri Bartholomew, Microbiology
    Carol Rivin, Botany and Plant Pathology
    Mafus Sarker, Food Sciences and Technology
    Barbara Bond, Forest Science
    Luiz Bermudez, Veterinary Medicine

Thanks

BRR Fun Facts:
67 BS Degrees in BRR have been awarded since 1994.
- 20 % earned HBS degrees
- 6 % earned International degrees
- 37 % had double majors and
- 77 % earned minors!

A word from a BRR-Environmental Chemistry student:
I have the best of both worlds - I trek to beautiful Mary's Peak once a month to collect noble fir samples, and I get to perform experiments on them myself, using state-of-the-art equipment that most undergraduate students are never even allowed to touch. I will be attending and presenting at the upcoming professional meeting for The Society of Environmental Toxicology and Chemistry (SETAC). http://www.setac.org/
Lisa Deskin, senior in Bioresource Research

Submit your newsletter information for the next issue to Wanda Crannell at: crannelw@science.oregonstate.edu