Welcome to our first annual newsletter!

We hope that this newsletter will help our students, faculty, and alumni keep up to date on the graduate program, and will give us a chance to reflect on our accomplishments each year. We need your help to make this newsletter informative and useful! There will always be a Hydrophiles section. Alumni, please let us know what you’ve been doing in your professional and personal life for our Alumni News section. Faculty and students, keep us up to date on your research and presentations. Everyone, let us know when you receive an award or recognition. We look forward to hearing from you!

--Director Mary Santelmann

Congratulations to the newly elected 2011-2012 Hydrophiles officers, and thank you to all the candidates for their interest in serving the Hydrophiles community!

The incoming officers are:
President – Kim Ogren
Vice-President – Pat Burns
Treasurer – Scott Allen
Secretary/Webmaster – Luke Pangle

Hydrophiles: A campus-wide student and faculty community

Water is a connector. Water provides connectivity among different biological, physical, and human systems - linking aquifers to surface waters, hillslopes to oceans, our communities and industries to our environment, and people to each other.

-Jay P. Zarnetske, outgoing President of Hydrophiles

Introducing the Hydrophiles

Water-related issues often connect people in unique ways, and here at Oregon State University (OSU), water-related research and curriculum is spread across the campus. Almost 15 years ago, a group of graduate students spanning many colleges and departments converged on a great idea. They realized that they had common interests in water issues and that the complex topic of water science and resources could unify people across the institution. These graduate students along with tremendous support from the faculty organized and became the Hydrophiles – a student run organization and official OSU chapter of American Water Resource Association and American Institute for Hydrology. Since its inception, Hydrophiles has played key roles in unifying and shaping the rapidly growing hydro community at OSU. For example, the Hydrophiles have helped to create the very successful Water Resources Graduate Program and the Institute for Water and Watersheds as well as organized popular campus-wide water resources seminar series. The Hydrophiles membership also regularly organizes social events, networking and professional development activities, and volunteer restoration opportunities. Today, Hydrophiles is a thriving student-run organization with over 100 student and faculty members who span 17 departments ranging from Anthropology to Biological and Ecological Engineering, and Sociology to Geosciences. Further, Hydrophiles now has alumni in dozens of government, non-profit, and private-sector organizations. Looking forward, we hope that this professional alumni network continues to grow and offer great networking opportunities for future Hydrophiles.

More information about Hydrophiles and Oregon State University’s hydro community is available at http://oregonstate.edu/groups/hydro/.
Directors Note

The Water Resources Graduate Program has been growing steadily since it was first approved as an interdisciplinary degree program in October of 2004. We receive between 80 and 100 applications from prospective students each year, had an incoming cohort of 22 students in Fall 2011, and 16 graduates in the 2009-10 academic year. We anticipate that we will have another 18 graduates (including 4 PhDs) by the end of 2010-2011, and about 16 incoming students in Fall 2011.

Our applicant pool provides an outstanding set of prospective students to faculty members conducting research in hydrology, engineering, and water policy; most of those admitted score in the top quartile on the GRE exams, and once enrolled in our degree programs, they maintain GPAs of 3.75 or better. In the past three years, we admitted 36-37% of applicants, and 46-62% of those admitted chose to attend OSU. We continue to strive for both diversity and excellence in recruiting new students, and have been successful in obtaining Laurels Block Grants to help support students in the past three years.

Most of our students are supported on graduate assistantships for at least a portion of their time at OSU. All degree programs are participating in a curriculum review this coming year. We have expanded the courses available to students by adding a summer term course in Water Conflict Transformation, and are working with several faculty members to augment current offerings. Our first concurrent JD-MS graduate, Jennifer Holderman, completed her degree in Winter 2011. We hope to encourage more students to seek the concurrent JD-MS degree once Adell Amos, our counterpart at the University of Oregon, returns from her position with the Department of the Interior in the Obama Administration.

Numerous honors and awards have been received by WRGP students including: Jeffrey Phillippe, (WRS, MS 2008) Distinguished Masters Thesis award from the Western Association of Graduate Schools; Mark Ingman (WRPM MS) and Elina Lin (WRPM MS 2009) the Sasakawa Young Leaders Foundation Fellowship; Eric Sproles (WRS PhD) and Sarah Marshall (WRE PhD) NSF Dissertation Fellowship. Jay Zarnetske was invited to present his work at the Chapman conference of AGU in summer 2010 and summer 2011, and has received a prestigious post-doctoral appointment at Yale University. In September 2009 Cody Hale was awarded the Horton Award.

This year, our program web pages have been updated, and our new Faculty web page is now searchable. Web page updates will continue over the summer.

—Director Mary Santelmann

Resources

Scholar Archive @ OSU provides electronic access to all Thesis and Dissertations of WRGP Graduates: http://ir-dev.library.oregonstate.edu/

Institute for Water and Watershed (IWW): http://water.oregonstate.edu/
Faculty Highlights

Anne Nolin

An Associate Professor in the Department of Geosciences, Dr. Nolin joined Oregon State’s faculty in 2002. Nolin has also served as the Associate Director of the Water Resources Sciences Degree Program of the Water Resources Graduate Program since 2006. In the classroom Nolin teaches snow hydrology, remote sensing of the environment, and digital image processing. Nolin recently returned from a sabbatical at the University of Canterbury in New Zealand and the Ecole Polytechnique Federale de Lausanne (EPFL) in Switzerland where she focused on the affect of climate change on snow, glaciers and water resources in mountain regions.

Dr. Nolin leads the Mountain Hydroclimatology Research Group in the Department of Geosciences, researching the impacts of climate change on snow and ice and focusing on mountain watershed hydrology, snow climatology, and climate change impacts on ice sheets. Snow and ice play a major role in both hydrology and global climate making up about 90% of all the fresh water on Earth. Accurate measurements of the spatial extent and physical characteristics of snow and ice and the rate at which they are melting allows for a better management of water resources and understanding of global climate change.

Nolin and her graduate students use satellite-based remote sensing to obtain this data. This technique allows for the team to be much more efficient than they would be taking measurements by hand. Nolin’s current projects include watershed-scale modeling of snow water equivalent under present day and future climate scenarios, snow sublimation processes in mountain watersheds: applications to water resources and snow physics, and climate change impacts on periglacial debris flows.

Dr. Nolin is also a NASA Science Team Member for Multi-angle Imaging SpectroRadiometer and served as an expert reviewer for the Working Group I contribution to the Intergovernmental Panel on Climate Change (IPCC) Fourth Assessment Report, Climate Change 2007: The Physical Science Basis.

— Kim Ogren & Cally Whitman

Photographs by Kelly Gleason. Snow Hydrology field trip to the Hogg Pass SNOTEL site in Oregon on 2/26/2011. Students in Dr. Nolin's Snow Hydrology class learned how to collect snow course and snow pit data. This data is used to estimate water supply for the State during the growing season.

http://www.geo.oregonstate.edu/people/faculty/Anne_Nolin
http://www.math.sunysb.edu/posterproject/biographies/nolin.html
http://eco-informatics.engr.oregonstate.edu/nolinsrc.html
Dr. Denise Lach is both a Professor in the Department of Sociology and the Transitional Director for Oregon State University’s new School of Public Policy. She came to Oregon State University in 1996 and since then has actively engaged in a number of natural resource and water initiatives at OSU including serving as the Co-Director of OSU’s Center for Water and Environmental Sustainability (2000), the Associate Director for the Institute for Natural Resources (2003), and the Associate Director for the Water Resources Policy and Management degree program in the Water Resources Graduate Program. Lach, with colleagues Roy Haggerty, Stan Gregory, and John Bolte helped develop the Water and Watersheds Initiative that established the Institute for Water and Watersheds.

Dr. Lach has been essential to the University initiative to create new School of Public Policy.

When she is not acting as a mover and a shaker on campus, helping make OSU the place to research water and natural resource policy, she can be found conducting her own research on the subjects of environmental natural resource sociology, applied sociology, organizational Sociology, and water conflict and dispute resolution. Her current research topics are an examination of changing roles and expectations for science and scientists in natural resource decision making, institutional resistance to changes in the water sector, and transformation of water resources governance structures.

Lach’s talent extends beyond the classroom and natural resource and water initiatives. At a recent campus event, Sing Your Thesis, Dr. Lach performed with her ukulele “Scientists” to the tune of “Wild Thing” (Scientists...give me certainty. I just wanna know...). Full lyrics are available upon request.

—Kim Ogren

Water Governance and Conflict Transformation, 6/2011

Aaron Wolf and Todd Jarvis lead this years Water Governance and Conflict Transformation class. This class allows water professionals from all over the world the chance to learn conflict transformation skills. This year’s class included water professionals from Canada, the US, Indonesia and Uzbekistan.

Alumni Networking

How to stay in contact: We are on Facebook as Water Resource Graduate Program at OSU.

How to donate to WRGP: We need to keep our Foundation Fellowship accounts healthy! These fund our Alumni Scholarship, the Williamson Water Prize, and the Faculty Prize. We want to thank our recent donors for their contributions and acknowledge their generosity. You may donate by sending a check to: The WRGP Foundation Account, 116 Gilmore Hall, Corvallis OR 97331.

Droplet gifts: up to $25
Stream: $25 to 100
River: $100-$1000  Jason Hatch
Bretz Flood: Over $1000! Anonymous
1st Annual OSU Water Day!!!

On May 17 the Water Resources Graduate Program held its first annual OSU Water Day. The student organized event celebrated student research and the accomplishments of the OSU water community. There was an outstanding response to the event with twenty students giving diverse presentations on topics ranging from groundwater to surface water, international to regional issues and everything in between. Presentation abstracts can be viewed at: http://water.oregonstate.edu/osu-water-day

Special thanks go out to Elena Maus for all her help setting up this event. We are also really grateful for all the WRGP students that came out to support their fellow students, the event would not have been a success without you.

Planning next year’s Water Day has already begun. Look for a poster session and inclusion of even more water students from all departments around campus. If you would like to help plan this event contact Cally Whitman or Mousa Diabat.

—Cally Whitman

WRGP on the Move...

This is a space to share the accomplishments and milestones of faculty, students, staff and alumni. Let us know what you have been up to!

Faculty:
- Jeffrey McDonnell is the 2010-2011 Darcy Lecturer.
- Roy Haggerty was named an Inaugural Hollis Dole Professor for 2010-2011.
- Mary Santelmann, Hannah Gosnell (with indefinite tenure), Desiree Tullos (with indefinite tenure), and Bryan Tilt (with indefinite tenure) have achieved the rank of Associate Professor. Congratulations!

Staff:
- After nearly 25 years with OSU, Elena Maus is retiring this year. We wish her the best of luck and thank her for everything she has done for the WRGP. Frequently she was the first person perspective graduate student talked to and has had a huge impact on the Program’s success. Thank you, Elena!

Students:
- Hydrophiles Vice President, Racquel Rancier (MS WRPM) received the Alumni Award, which in addition to a certificate and the honor of being the award recipient, provides the recipient with a $250 scholarship. Racquel has also earned a Graduate Legislative Internship.
- Eric Foster-Moore (MS WRPM) received The Faculty Excellence Award, which in addition to a certificate and the honor of being the award recipient, provides the recipient with a $500 scholarship.
- Cody Hale (PhD WRS) is the 2011 recipient of the Williamson Water Prize, which in addition to a certificate and the honor of being the award recipient, provides the recipient with a $500 scholarship. Cody has also earned the Pathfinder Award and Horton Award.
- Ricardo Gonzalez-Pinzon earned both a Pathfinder Award and a H.J. Andrews Student Research Award.
- Scott Allen earned a H.J. Andrews Student Research Award.
- Harmony Paulsen earned a OR Lottery Fellowship.
- Rachel Lovellford earned a OR Lottery Fellowship.
- Imtiaz-Ali Kalyan earned a OR Lottery Fellowship.
- Jay Zarnetske received the 2011-2013 Gaylord Donnelley Environmental Postdoctoral Fellowship at Yale University. Jay will be working with Dr. Peter Raymond and Dr. James Saiers at the Yale School of Forestry & Environmental Studies Yale (the Oregon State Univ. of the East). He has been invited to the Gordon Catchment Conference.