The Oregon Lakes Association (OLA), the Washington State Lake Protection Association (WALPA), and PSU Center for Lakes & Reservoirs will be co-hosting their annual conference with support of the North American Lake Management Society (NALMS) and in conjunction with the Western Regional Panel on Aquatic Nuisance Species.

The Pacific Northwest Regional Conference will be held at Portland State University in Portland, Oregon on September 13 and 14. The meeting location will be at the Smith Memorial Student Union Building. Field trips will be offered to conference participants on Friday, September 15.
### Pacific Northwest Regional Conference Program

**Wednesday, September 13, 2006**

8:00 – 8:30 a.m. Welcome Speaker - Smith Ballroom  
Dr. Roy Koch, Portland State University Provost and Vice President for Academic Affairs

Welcome by NALMS Representative Harry Gibbons

**Plenary Session: 8:30 - 10:00 a.m. Smith Ballroom**

**Lake Trophic Condition: Striving to achieve nutrient “balance” and “optima” production for multiple-use in the 21st century**  
Dr. John Stockner, Principal Limnologist/Oceanographer, Eco-Logic, Ltd.

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<th>Break: 10:00 - 10:30 a.m. Smith Ballroom - Visit exhibits, posters and displays</th>
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| Session 1: 10:30 a.m. – noon  
**Session 1-A: Cyanobacteria - Vanport Room**  
Chair: John Rueter, Portland State University  
**The Occurrence and Management of Toxic Cyanobacteria in the Pacific Northwest**  
Jean Jacoby and Jacob Kann, Seattle University, Civil and Environmental Engineering  
**Toxic *Microcystis aeruginosa* and *microcystin* trends in Copco and Iron Gate Reservoirs on the Klamath River**  
Jacob Kann and Susan Corum, Aquatic Ecosystem Sciences  
**Screening for Algal Toxins in Volunteer-Monitored Lakes**  
Gene Williams, Snohomish County Public Works |
| Session 1-B: - Lake Models #1 - Room 327/328  
Chair: Curt DeGasperi, King County Dept. of Natural Resources and Parks  
**Developing an Ecosystem Model for Waldo Lake**  
Robert Annear and Scott Wells, Portland State University, Department of Civil and Environmental Engineering  
**Lake Whatcom Water Quality Model**  
Chris Berger and Scott Wells, Portland State University, Department of Civil and Environmental Engineering  
**Monitoring and Modeling Climate Change Impacts on the Temperature of Lake Washington**  
Curtis DeGasperi, King County Department of Natural Resources and Parks, Water and Land Resources Division |

| Lunch: Noon-1:30 p.m. - Smith Ballroom  
**Tracking the post eruption recovery of Spirit Lake at Mount Saint Helens, Washington, 1980-2005**  
Dr. Douglas W. Larson, retired limnologist, US Army Corps of Engineers and adjunct faculty member, Portland State University, Environmental Sciences and Resources Department |
|---|
| Session 2: 1:30 - 3:00 p.m.  
**Session 2-A: Macrophytes - Vanport Room**  
Sponsor: Washington State Department of Ecology  
Chair: Kathy Hamel, Washington State Department of Ecology  
**Aquatic Vegetation Studies in Coeur d’Alene Lake: Species Presence, Biomass, and Estimated Nutrient Loading**  
Dave Lamb, Coeur d’Alene Tribe, Lake Management Department  
**Overview of Aquatic Weed Control Research Conducted by the Washington Department of Ecology**  
Jenifer Parsons and Kathy Hamel, Washington State Dept. of Ecology  
**Physiological Responses of the Invasive Macrophyte *Egeria densa* (Brazilian elodea) from Two Populations in California and Oregon**  
Toni Pennington and Mark Sytsma, Portland State University, Center for Lakes and Reservoirs  
**Eradication of Milfoil from Walsh Lake in Seattle’s Cedar River Municipal Watershed**  
Josh Wozniak and Rob Zisette, Herrera Environmental Consultants  
**Examining the Hydrodynamic Effects of Reservoir Operations on Water Quality and Fish Growth in Franklin D. Roosevelt Lake, Wash., Using the Hydrodynamic and Water Quality Model CE-QUAL-W2**  
Michael McKillip and Scott Wells, Portland State University, Department of Civil and Environmental Engineering  
**Inference of Early-European Settlement, Total Phosphorus Concentrations in 20 Western Washington and Oregon Lakes Using Sediment Diatom and Morphoedaphic Index Models**  
Rich Miller, Mark Sytsma, Aaron Hook and Richard Petersen, Portland State University, Center for Lakes and Reservoirs  
**Experimental Determination and Modeling of the Effects of Mixing and Concentration Gradient on Sediment Oxygen Demand and Sediment Nitrate Demand in Lakes**  
Marc Beutel, PhD, PE, Water Resources and Environmental Engineering, Department of Civil and Environmental Engineering, Washington State University |
| Session 2-B: Lake Models #2 - Room 327/328  
Chair: Robert Annear, Portland State University  
**Developing an Ecosystem Model for Waldo Lake**  
Robert Annear and Scott Wells, Portland State University, Department of Civil and Environmental Engineering  
**Lake Whatcom Water Quality Model**  
Chris Berger and Scott Wells, Portland State University, Department of Civil and Environmental Engineering  
**Monitoring and Modeling Climate Change Impacts on the Temperature of Lake Washington**  
Curtis DeGasperi, King County Department of Natural Resources and Parks, Water and Land Resources Division |
Break: 3:00 - 3:30 p.m. - Visit exhibits, posters and displays

Session 3: 3:30 - 5:00 p.m.
Session 3-A: Invasive Species - Vanport Room
Chair: Mark Sysma, Portland State University

Zebra mussel *Dreissena polymorpha* in El Dorado Reservoir, Kansas - Monitoring, Containment/control Strategies, and Lessons Learned
Jason Goeccker, Kansas Department of Wildlife and Parks

What factors mediate the impacts of introduced species? Investigating the Success of Kokanee since Establishment of Lake Trout and *Mysis relicta* in a Large, Oligotrophic Lake
Erik Schon, David Beauchamp, Nathaniel Overman, and Christopher Sergeant, University of Washington, Washington Cooperative Fish and Wildlife Research Unit, School of Aquatic and Fishery Sciences

Controlling the Spread of the New Zealand Mudsnaill (*Potamopyrgus antipodarum*) from Field Gear with Dry Ice in Portable Coolers
Scott Weidemer and Samuel Chan, Oregon State University, College of Oceanic and Atmospheric Sciences

Modeling Dispersal of New Zealand Mudsnaills (*Potamopyrgus antipodarum*) in Oregon
Chi-Chang Liu, John Chapman, Hang-Kwang Luh, and Selina Heppell, Oregon State University

5:00 - 7:00 p.m. Smith Ballroom
No-host social gathering, view posters and vendor exhibits

Session 3-B: Lake Surveys - Room 327/328
Chair: Beth Cullen, King County Department of Natural Resources and Parks

Proposed Survey of the Nation's Lakes
Maggie Bell McKinnon, Washington State Department of Ecology

A Survey of Encyclopedic Lakes Websites on the Internet
Richard Lycan, Portland State University

Waterway Boundaries: Title and Ownership Issues
Jennie Bricker, Stoel Rives, LLP

5:00 - 7:00 p.m. Smith Ballroom
No-host social gathering, view posters and vendor exhibits

Thursday, September 14

Break 10:00 - 10:30 a.m. - Visit exhibits, posters and displays

Session 4: 8:30 - 10:00 a.m.
Session 4-A: Lake Treatments #1 - Vanport Room
Sponsor: Terra Graphics
Chair: Darren Brandt, Terra Graphics

Short-term Effects of an Aluminum Sulfate Treatment on Green Lake Sediment Phosphorus Speciation
Rebecca Dugopolski and Michael Brett, Herrera Environmental Consultants/ University of Washington

Improving Raw Water Quality via Hypolimnetic Oxygenation in a Water Supply Reservoir
Paul Gantzer and John Little, Virginia Tech

Long-term Reduction in Internal Phosphorus Loading though Hypolimnetic Oxygenation and Alum Applications in Newman Lake, Washington
Barry Moore, Mike Biggs, Dave Christensen, and Kevin Anderson, Washington State University, Department of Natural Resource Sciences

Session 4-B: Lake Classification - Room 327/328
Chair: Rich Miller, Portland State University

Ecological Characterization and Comparison of Lake Types in the Columbia National Wildlife Refuge
Justin Bader and Anthony Gabriel, Central Washington University, Department of Geography and Land Studies

Classification and Distribution of Lake Types in Washington State
Anthony Gabriel, Karl Lillquist, Andrew Perkins, and Janet Rhoades, Central Washington University, Resource Management Program

Wetlands as Regulators of Lake Water Quality
Stan Geiger, Aquatic Scientific Resources

Thanks to our sponsors
- North American Lake Management Society
- Washington State Lake Protection Association
- Oregon Lakes Association
- PSU Center for Lakes and Reservoirs
- Pacific States Marine Fisheries Commission
- OTT
- Hydrolab
- HACH Environmental
- Western Regional Panel on Aquatic Nuisance Species

Thanks to our session sponsors
- Washington State Department of Ecology
- Terra Graphics
### Session 5: 10:30 a.m. – noon
**Session 5-A: Lake Treatments #2 - Vanport Room**

Chair: Mark Rosenkranz, Lake Oswego

**Cottage Lake Phosphorus Reduction Project: A community approach to controlling non-point source pollution**
Beth Cullen, King County Department of Natural Resources and Parks, Lake Stewardship Program

**Alum Treatment at Lake Hicks: Controlling Phosphorus Concentrations in a Small Urban Lake**
Michael Murphy, King County Department of Natural Resources and Parks, Lake Stewardship Program

**Worldwide Use of Alum to Control Phosphorus Internal Loading in Lakes**
Gene Welch and Harry Gibbons, Tetra Tech, Inc.

### Session 5-B: Food Webs and Microbials - Room 327/328

Chair: Lee Mellish, Liberty Lake Sewer and Water District

**Differential Prey Selectivity of Largemouth Bass Functional Feeding Groups in Twin Lakes**
David Christensen, Barry Moore, Washington State University, Dept. of Natural Resources, and Dan Fairbank, Colville Confederated Tribes

**Effects of Shoreline Development on the Nearshore Food Web of a Large Deep Nutrient-poor Lake-Lake Crescent, WA**
Elizabeth Seminet-Reneau and Stephanie Hampton, University of Idaho, and Steven C. Fradkin, Olympic National Park

**Ten year review of King County Freshwater Swimming Beach Monitoring**
Jonathan Frodge, King County Department of Natural Resources and Parks, Water and Land Resources Division

**Thorton Creek and Matthews Beach Microbial Source Tracking Study**
Rob Zisette, Herrera Environmental Consultants

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