

Welcome to the
25th Annual
WALPA Conference



October 24-26, 2012
Coast Wenatchee Center Hotel

SESSION SCHEDULE

WASHINGTON STATE LAKE PROTECTION ASSOCIATION

The Future of Lakes:

The Next Generation of Limnology Research & Mitigation

Conference Special Events

Secchi Disc Award

The Secchi Disk award is an award voted upon by the WALPA Board of Directors to honor a person outstanding in the field of lakes management and protection. This year, the WALPA Board is honored to grant the Secchi Disk award to Kathy Hamel. Over the course of her career she has guided and taught many of us in the field of lake management. She always provided a voice of reason and every now and again added a dash of "clever thinking" to help maximize the benefits of any given project. Among many things, she is admired for her patient attitude, dedication to the task at hand, and friendly demeanor. There was no clearer choice than Kathy for this award.

Remember Your Recertification Credits

This year you can earn up to six recertification credits toward maintaining your herbicide applicator license. Two credits will be given for each of the following workshops on Wednesday Oct 24th. The Aquatic Plant Workshop (Workshop 1A) held from 1:00-3:00 and Nostoca Algae Laboratory (Workshop 2A) held from 3:30-5:30. A single credit can also be earned for each of the Invasive vs. Native Species Sessions on Thursday Oct 25th. Plants (Session 2A) held from 1:30-3:00 and Animals (session 3A) held from 3:30-5:00.

Photo Contest

Remember to vote for the best photo in the photo contest. The winner of the contest will receive a \$50 gift certificate to Amazon. Go vote!

Wine and Cider Tasting Social

Please join us on Thursday night to taste a little of the local Wenatchee flavor, hang out with fellow WALPA members and talk shop (or not). Sponsored by Hach Hydromet

Business Meeting Agenda

Thursday, October 25, Noon-1:30

- 1) Introduction – Bijay Adams
- 2) Scholarship Awards – Dr. Frank Wilhelm
- 3) Retiring Board Members and Past-President – Moya Joubert
- 4) Announcing New Board Members – Jim Gawel
- 5) WALPA Goals in 2013 – Jim Gawel
- 6) Secchi Disk Award to Kathy Hamel - Beth leDoux

WALPA Online

The WALPA website is constantly improving and updating. If you haven't had a chance, please visit us on our website and find the latest in lake news, keep up to date with the latest WATERLINE newsletter or even browse archived issues and conference materials.

www.walpa.org

Follow WALPA on Facebook

Keep up to date with WALPA projects, news and alerts as well as sharing your lakes photos, news and ideas with other fans of WALPA.

www.facebook.com/walpa.org

Wednesday, October 24

Workshop 1: 1:00-3:00

Workshop 1-A: Aquatic Plant Workshop

- **Jennifer Parsons:** Washington State Department of Ecology

Workshop 1-B: Breakthrough Technologies in Nutrient Instrumentation

- **TJ Sisson:** Hach Hydromet - Hydrolab & OTT

Workshop 2: 3:30-5:30

Workshop 2-A Algae Workshop

- **Karl Bruun:** Nostoca Algae Laboratory

Workshop 2-B YSI Workshop

- **Randy Hadland:** YSI Inc.

Thursday, October 25

Registration: 7:00-8:30

Plenary Session: 8:30-10:00

Welcome - BiJay Adams

- **Mindy Roberts:** Washington State Department of Ecology, Environmental Assessment Program, *“Capitol Lake: Past, Present, and Future”*

Break, 10:00-10:30

Session 1, 10:30-12:00

Session 1A: Central Washington Lakes

- **Session Chair - Chris Knutson:** King County Natural Resources and Parks, WLRD
 - **Jacob McCann:** Washington State Department of Natural Resources, *“Washington DNR Aquatic Lands Management for Eastern Washington Lakes and Rivers”*
 - **David C. Richards:** EcoAnalysts Inc, *“Initial Habitat and Food Web Studies in Rufus Woods Lake, Columbia River, WA, USA”*
 - **Amanda Parrish:** The Lands Council, *“Beaver: Restoration and Community Engagement”*
 - **Dave Kluttz:** Lakeland Restoration Services LLC, *“The Ongoing Effort to Control Riparian Invasive Plants in the Grand Coulee Waterway-Including Moses Lake”*

Session 1B: Fish: Monitoring and Health

- **Session Chair - Ellen Preece:** Washington State University
 - **Benjamin K. Cross:** Washington State University, School of the Environment, *“Evaluation of Hypolimnetic Oxygenation Effects on Trout Condition and Survival”*
 - **Megan M. Skinner:** Washington State University, *“The Effects of Hypolimnetic Oxygenation on Fish Diet in a Mixed Warm- and Cold-Water Fish Community in Twin*

Lakes, Washington”

- **Barry C. Moore:** Washington State University, School of the Environment, *“Fish Habitat Utilization and Reduced Phosphorus Cycling with Hypolimnetic Oxygenation at Twin Lakes, WA”*
- **Lauren Courter:** Mount Hood Environmental, *“Effects of the Aquatic Herbicide Endothall on the Survival of Salmon and Steelhead Smolts During Seawater Transition”*

Lunch 12:00-1:30

WALPA Business Meeting

- Secchi Disk Award presentation to winner Kathy Hamel

Session 2, 1:30-3:00

Session 2A: Invasive vs. Native Species: Plants

- **Session Chair - Sally Abella:** King County Department of Natural Resources and Parks
 - **Mike Mackey:** Chelan County Noxious Weed Board, *“The Columbia River Eurasian Watermilfoil Control Project”*
 - **Kathy Hamel:** Washington State Department of Ecology, *“Noxious Aquatic Plants - Historical Perspective and Looking Towards the Future”*
 - **Anna Lyon:** Okanogan County Noxious Weed Control Board, *“Collaboration with Canada to Explore Bio-Controls for Eurasian watermilfoil”*
 - **Tom Woolf:** Aquatic Ecologist, *“Expanding Aquatic Weed Issues”*

Session 2B: Student Research: New Ideas in Limnology

- **Session Chair - Frank Wilhelm:** University of Idaho
 - **Chelsie Strowbridge:** University of Washington Tacoma, Environmental Science, *“The Role of the Water Column in the Nutrient Budget of Spirit Lake, WA”*
 - **Jason Williams:** Washington State University, *“How Variable are Mercury Biomagnification Rates Across Aquatic Systems?”*
 - **Amber Barenberg:** University of Idaho, Department of Fish and Wildlife Sciences, *“Elevated pH as a Management Tool to Control Invasive Mollusks”*
 - **Andrew W. Child:** Washington State University, *“Effects Of Long-Term Hypolimnetic Oxygen Restoration on Spatial and Temporal Variation of D13c on Lake Sediments and Benthic Macroinvertebrate Communities”*

Break, 3:00-3:30

Session 3, 3:30-5:00

Session 3A: Invasive vs. Native Species: Animals

- **Session Chair - BiJay Adams:** Liberty Lake Sewer and Water District
 - **Ed Johannes:** Deixis Consultants, *“Origin, History and Distribution of Introduced Freshwater Mollusks in the Western United States”*
 - **Jesse Schultz:** Washington Department of Fish and Wildlife, *“Washington Department of Fish and Wildlife*

Aquatic Invasive Species Unit Prevention Management Actions”

- **Jonathan Frodge:** Seattle Public Utilities, *“Attack of the Clones. New Zealand Mud Snail Spread in the Pacific Northwest”*
- **Tom Woolf:** Aquatic Ecologist, *“Invasive Species: Coming to A Lake Near You”*

Session 3B: Internal Cycling and Water Chemistry

- **Session Chair - Jim Gawel:** University of Washington Tacoma
 - **Maggie Bell-McKinnon:** Washington State Department of Ecology, *“An Assessment of Nutrients in Washington Lakes”*
 - **Gene Williams:** Snohomish County Surface Water Management, *“Addressing Massive Internal Phosphorus Loading and Historical Watershed Pollution at Lake Ketchum”*
 - **Keith Seiders:** Washington Department of Ecology, Environmental Assessment Program, *“Toxic Chemicals in Freshwater Fish From Lakes and Streams: Monitoring Results from Washington Department of Ecology”*
 - **Rob Zisette:** Herrera Environmental Consultants, *“Advancements in Floating Wetland Systems for Effective Lake Restoration”*

Wine/Cider Tasting Social, 5:30-7:00

Sponsored by Hach Hydromet

Friday, October 26

Session 4, 8:00-9:30

Session 4A: Mitigation: Water Column

- **Session Chair - Liz Johnson:** Seattle Public Utilities
 - **Marisa Burghdoff:** Snohomish County Public Works, Surface Water Management, *“LakeWise – A New Approach to Reduce Residential Phosphorus Pollution in Snohomish County Lakes”*
 - **Suzanne Tomassi:** The Watershed Company, *“Building an In-Lieu Fee Program That Meets Regulatory Criteria and Addresses Watershed Needs”*
 - **Terry McNabb:** Aquatechnex, LLC, *“A New Technology for Managing Phosphorus Pollution”*
 - **Mike Kaputa:** Chelan County Natural Resources Department, *“Beyond the Lake: Practical and Political Considerations for Implementing Alternative Mitigation Programs”*

Session 4B: Toxic Algae

- **Session Chair - Beth leDoux:** King County Natural Resources and Parks, WLRD
 - **Joan Hardy:** Washington Department of Health, *“Animal Safety Alert: HAB Veterinary Outreach Efforts in Washington”*
 - **Gabriella Hannach:** King County Natural Resources and Parks, WLRD, *“Evaluating Cyanobacterial Toxicity in a Patchy World”*

- **Ellen P. Preece:** Washington State University, *“Identifying Best Methods for Detecting Microcystin in Fish Muscle”*
- **Aaron Nix:** City of Black Diamond, Parks/Natural Resources, *“Trends in Cyanobacteria Blooms with Passage of Clean Water Legislation”*

Break, 9:30-10:00

Session 5, 10:00-11:30

Session 5A: Biological Community Status and Trends in WA Lakes

- **Session Chair - Jonathan Frodge:** Seattle Public Utilities
- **Speakers**
 - **Rob Zisette:** Herrera Environmental Consultants, *“Phytoplankton Community Impacts of the 2004 Green Lake Alum Treatment”*
 - **Carmen Welch:** Western Washington University, *“Seasonal and Age-Based Aspects of Diet of the Introduced Redside Shiner (richardsonius balteatus) in Ross Lake, WA”*
 - **Angela Strecker:** Portland State University, Environmental Science and Management, *“Contemporary and Historical Comparisons of Chemical and Biological Characteristics of Lakes on the Columbia Plateau”*
 - **Peter Burgoon:** Water Quality Engineering, *“Rock Island Lake Nutrient Loading Assessment”*

Session 5B: New Technology/Methods for Lake Management

- **Session Chair - Karl Bruun:** King County Natural Resources and Parks, WLRD
- **Speakers**
 - **Steve Holland:** Bluewater Satellite, *“Coupling Satellite Monitoring and Instrumentation as a Best Practice for Watershed Management”*
 - **Terry McNabb:** Aquatechnex, LLC, *“Advances in Chemical Control Technologies for Eurasian Milfoil”*
 - **Liz Cruise Johnson:** Seattle Public Utilities, Water Quality Laboratory, *“Lake Snapshots: How to Make the Most of Your Lake Profiler System”*
 - **Jonathan Frodge:** Seattle Public Utilities, *“Dredging up New Data From the Past”*

POSTERS

ON DISPLAY THROUGHOUT CONFERENCE

- **Lizbeth Seebacher:** Washington State Department of Ecology, Water Quality Program, *“Ecology’s Freshwater Algae Program”*
- **Jim Gawel:** University of Washington Tacoma, Environmental Sciences, *“Developing a Data-intensive Nutrient Budget for Wapato Lake, Tacoma, Washington, With an Eye Towards Future Management”*
- **Karl Bruun:** Nostoca Algae Laboratory, *“A Microscopic Overview Of Commonly Encountered Cyanobacteria Genera Sharing Similar Morphological Characteristics”*

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Sponsored By:



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 CONFERENCE SCHEDULE 2012	WED	THURS	FRI
	1:00 - 3:00pm Workshop 1 1A - Aquatic Plant Workshop 1B - Breakthrough Technologies in Nutrient Instrumentation 3:30 - 5:30pm Workshop 2 2A - Algae Workshop 2B - YSI Workshop 7:00 - 8:30am Registration 8:30 - 10:00am Plenary Session 10:00 - 10:30am Break 10:30 - Noon Session 1 1A - Central Washington Lakes 1B - Fish: Monitoring and Health Noon - 1:30pm Lunch WALPA Business Meeting 1:30 - 3:00pm Session 2 2A - Invasive vs. Native Species: Plants 2B - Student Research: New Ideas in Limnology 3:00 - 3:30pm Break 3:30 - 5:00pm Session 3 3A - Invasive vs. Native Species: Animals 3B - Internal Cycling and Water Chemistry 5:30 - 7:00pm Wine/Cider Tasting Social Sponsored by Hach Hydromet 8:00 - 9:30am Session 4 4A - Mitigation: Water Column 4B - Toxic Algae 9:30 - 10:00am Break 10:00 - 11:30am Session 5 5A - Biological Community Status and Trends in WA Lakes 5B - New Technology/Methods for Lake Management		