

# 27th Annual Conference



Sept 30th-Oct 2nd, 2014  
Campbell's Resort  
Chelan, WA

WASHINGTON STATE LAKE

PROTECTION ASSOCIATION

## Applied Limnology

### Conference Special Events

#### Secchi Disc Award

The Secchi Disk Award is voted on by the WALPA Board of Directors to honor an outstanding person in the field of makes management and protection. This year the WALPA Board is honored to present the Secchi Disk Award to Bijay Adams! Bijay has served as the President of WALPA multiple years, most recently in 2012. He was a key force in WALPA's successful multi-year campaign to ban phosphorus in most dishwasher detergents and lawn fertilizers in Washington State. He was also the energetic force behind bringing the National Lake Management Society (NALMS) Annual Conference to Spokane, WA, in 2011, an enormous accomplishment. He has also been a mentor and recruiter for a new generation of WALPA Board members and officers. Bijay works full time for lakes as the general manager for the Liberty Lake Sewer and Water District. The Board was unanimous in the selection of Bijay for the Award this year.

#### Student Presentation Awards

Vote for the best student posters during Wednesday's social! One Undergraduate and one Graduate student poster winner will be selected and announced. Best student talk will also be awarded this year! The winner will be announced following the conference.

### Reminders!

**Elections:** Drop your ballot in the box at Registration

**Best Student Posters:** Vote for the best Undergraduate and Graduate student poster

**Best Student Talk:** Vote for the best student talk too

**Secchi Disk Award:** Presented by the WALPA Board at lunch Wednesday

**Raffle:** Buy your raffle tickets at Registration

**Silent Auction:** Auction ends 6pm Wednesday during Social

**Live Auction:** Live auction for HL4 and YSI probes during Wednesday Social

**Recertification Credits:** Sign up at Registration to qualify

#### Wine and Cider Tasting Social

Please join us on Wednesday night to taste a little of the local Chelan flavor. It's a great time to unwind and network with fellow WALPA members. Light refreshments provided with the first drink ticket on the house. Sponsored by OTT Hydromet.



#### Raffle and Silent Auction

WALPA is holding a raffle & silent auction at the 2014 Annual Conference to raise funds for student scholarships, research and outreach. There will be a variety of items including such things as outdoor gear, books, gift certificates and beer from local breweries.

The raffle drawing will be held Wednesday evening, and the silent auction will conclude on Thursday at the coffee break. The live auction for the Hydrolab HL4 donated by OTT Hydromet will be held Thursday morning at the coffee break. You must be present to win raffle items and to bid in the auction.

#### Thanks to our raffle donors!

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YSI

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BREWERY

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## Tuesday – September 30th

### 8:30 - Workshop/Breakfast

#### Electronic Data Solutions - Park Room

Continental breakfast will be provided for registered attendees.

### 1:00 - Registration

### 2:00-5:00 - Workshops A & B

#### Workshop A: Aquatic Plants and Invasive Species - Ballroom 2

- **Jennifer Parsons**, WA Dept. of Ecology, and **Ben Peterson**, King County Noxious Weeds, “Identification of submerged, floating, and emergent aquatic plants (both native and weeds) found in Washington State. Live samples and herbarium specimens will be on hand for display.”
- **Jesse Schultz**, WA Dept. of Fish and Wildlife, “Discussion of management actions that the Aquatic Invasive Species Unit uses, including internal decontamination protocols, public outreach and education, watercraft surveys and inspections, enforcement of AIS laws, decontamination of infested conveyances, and early detection monitoring to achieve this goal.”
- **Sally Abella**, King County Water and Land Resources, “New Zealand mudsnails have recently been found in multiple locations in Western Washington and may be spreading across the state. Learn how to recognize them and how to prevent your own gear from moving them to new locations.”

#### Workshop B: General Limnology 101 - Ballroom 3 and on Lake Chelan

- **Jim Gawel**, University of Washington Tacoma, “A brief whirlwind introduction to physical, chemical and biological limnology. Please ask questions!”
- **Karl Bruun**, Nostoca Algae Lab, “A hands on plankton identification session with microscopes, counting chambers and expert instruction. Feel free to bring a sample you are interested in!”
- **Chris Knutson**, King County Water and Land Resources, **Randy Hadland**, YSI Inc., and **Jim Gawel**,

University of Washington Tacoma, “Get us outside for hands on instruction on sampling equipment and techniques. If weather permits, we will be able to take participants out on boats for on the water experience.”

## Wednesday – October 1st

### 7:00 - Registration/Breakfast

#### Raffle & Silent Auction Open

### 8:30 - Plenary Session

#### Stehekin A/B

- *Sixty years of environmental change in the world’s largest lake – Lake Baikal, Siberia.* **Stephanie Hampton**, Professor, School of the Environment; Director, Center for Environmental Research, Education and Outreach; Washington State University.

### 10:00 - Break

### 10:30 - Session 1

#### Harmful Algae Blooms - Ballrooms 2/3

- **Deb Bouchard**, Session Chair
- **Speakers:**
  - **Benard Simiyu (GRAD)**, Egerton University, Kenya, “The Concentration of Microcystins in *Rastineobola Argentea* in Nyanza gulf of Lake Victoria, Kenya”
  - **Ellen Preece (GRAD)**, Washington State University, “An Emerging Threat: Freshwater Harmful Algal Blooms and the Marine Environment”
  - **Terry McNabb**, Aquatechnex, LLC., “Using Peroxygen Algaecides to mitigate harmful algae blooms and other potable water contaminants”
  - **Jean Jacoby**, Seattle University, “An Evaluation of Factors Associated with Microcystins in Nine Lakes in the Puget Sound Region (Washington, USA)”
  - **Sally Abella**, King County Water and Land Resources, “The puzzle of managing lakes when the blooms are both toxic and patchy: Green Lake as a case study in difficult choices”

## POSTERS - ON DISPLAY THROUGHOUT CONFERENCE

- **Shantelle Reamer (UG)**, University of Washington Tacoma, “Role of Log Mat Biofilm in Nutrient Cycling of Spirit Lake, Mount St. Helens National Volcanic Monument”
- **Julieann Palumbo (UG)**, University of Washington Tacoma, “Analysis of new organic sediment material in Spirit Lake, Mount St. Helens National Volcanic Monument”
- **Timothy Nathaniel Taylor (GRAD)**, Washington State University, “Establishing Carrying Capacity for Brook Trout on Owhi Lake, WA to Evaluate Current Stocking Strategies”
- **Andrew Child (GRAD)**, Washington State University, “The birds and the bees of paleolimnology: Did sockeye salmon historically spawn in Lake Roberta?”
- **Brian Lanouette (GRAD)**, Washington State University, “Methods for tracking diel vertical migrations of zooplanktivorous Kokanee (*Oncorhynchus nerka*) and their zooplankton prey”
- **Megan M. Skinner (GRAD)**, Washington State University, “Stable isotope analysis of fish liver in food web studies: a methods investigation”
- **Ellen Preece (GRAD)**, Washington State University, “First Detection of the Harmful Algal Toxin, Microcystin, in Puget Sound Mussels: Ecological Implications and Human Health Risk”

### 12:00 - Lunch

#### Secchi Award, Scholarship Winners and other WALPA business - Stehekin Ballrooms

### 1:30 - Session 2

#### Invasive and Nuisance Aquatic Species - Ballrooms 2/3

- **Josh Wozniak**, Session Chair
- **Speakers:**
  - **Mary K. Coyle (GRAD)**, CNR University of Idaho, “*Didymosphenia geminata* Nuisance Mats in the Intermountain Pacific Northwest: Present Status and Future Management Strategies for a Misunderstood Diatom”
  - **Steve Bollens**, Washington State University, “Invasive Mussel Monitoring in the Columbia River Basin – Past, Present, and Future.”
  - **David Kluttz**, Lakeland Restoration Services, “Beach Blanket Bingo, an innovated way of communicating with your client.”
  - **Nathan Lubliner**, Washington State Department of Ecology, “Aquatic Plant and Algae Management NPDES General Permit: Revisions and Reissuance”
  - **Rob Zisette**, Herrera Environmental Consultants, “Milfoil Eradication by Diver Hand Pulling in Walsh Lake, Washington”

### 3:00 - Break

### 3:30 - Session 3

#### Hot Topics in Lake Restoration and Management - Ballrooms 2/3

- **Marisa Burghdoff**, Session Chair
- **Speakers:**
  - **Patrick Simmsgeiger**, CLM, Diversified Waterscapes Inc. “Water Quality and Lake Health: The role of Proactive Management”
  - **Marisa Burghdoff**, Snohomish County Surface Water Management and **Jennifer Oden**, Snohomish County Surface Water Management, “Lessons Learned from 23 Years of Volunteer Lake Monitoring in Snohomish County”
  - **Joy P. Michaud**, Herrera Environmental Consultants, “The Winding Road to Success: Stormwater Treatment the Hard Way”
  - **Dave Cline**, Rio Tinto, “Holden Mine Cleanup Project History”
  - **Tino Maestas**, Magnus Pacific, “Holden Mine Cleanup Project Remedial Construction”
  - **George Iftner**, Herrera Environmental Consultants, “Holden Mine Cleanup Project Construction Stormwater Management and Surface Water Quality Monitoring”

### 5:00 - 7:00 Poster Session/ Social Hour

#### Wine and Cider Tasting, Raffle Drawings, Silent Auction Closes, Live Hydrolab and YSI Auction

## Thursday – October 2nd

### 7:00 - Registration/Breakfast

### 8:00 - Session 4

#### Fish Ecology and Management - Stehekin A/B

- **Frank Wilhelm**, Session Chair
- **Speakers:**
  - **Curtis DeGasperi**, King County Science and Data Management Section, “Lake Washington PCB/PBDE Loading Study”
  - **Mark Sorel (GRAD)**, Washington Cooperative Fish and Wildlife Research Unit, School of Aquatic and Fisheries Science, University of Washington, “Potential predation risk to anadromous salmonids reintroduced in Merwin Reservoir on the Lewis River, WA”
  - **Tara Blackman (GRAD)**, Oregon State University, “Life history strategies of Rainbow Trout across a volcanic disturbance gradient”
  - **Curtis DeGasperi**, King County Science and Data Management Section, “Potential Effects of Global Warming on Lake Sammamish kokanee thermal habitat”

### 9:30 - Break

### 10:00 - Session 5

#### Nutrient Management in Lakes - Stehekin A/B

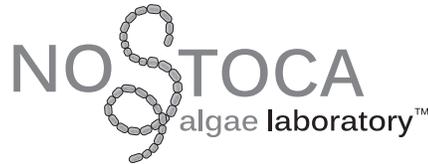
- **Rachael Gravon**, Session Chair
- **Speakers:**
  - **Eric C. Miller**, Senior Hydrogeologist, Geoengineers, “Factors contributing to the preference of engineered system to control near-shore phosphorus effluents”
  - **Charlotte Clark Montgomery**, Sea-Bird Coastal, “Aquatic nutrient monitoring on process time scales”
  - **Jessica Blizard and Rob Plotnikoff**, Tetra Tech, “The effects of beaver dams on the hydrology and nutrient release of stormwater in wetlands”
  - **S.K. Brattebo, H.L. Gibbons, E.B. Welch, J. Blizard, G. Williams**, Tetra Tech, Inc., “Alum treatment of the most hypereutrophic lake in western Washington”
  - **Jim Gawel**, University of Washington Tacoma, “The New Spirit Lake: Current Hydrology and Nutrient Cycling in a Disturbed Ecosystem”
  - **Bo Li**, University of Washington, “Characterization of dissolved phosphorus mineralization kinetics for effluents from advanced nutrient removal processes”

# Special thanks to our sponsors

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## SILVER



## BRONZE



WALPA 27th CONFERENCE SCHEDULE 2014	TUES	WED					THURS										
	8:30am Workshop/Breakfast	1:00pm Registration	2-5:00pm Workshops A/B	A - Aquatic Plants and Invasive Species	B - General Limnology 101	7am Registration/Breakfast Raffle & Silent Auction Open	8:30 - 10am Plenary Session	10 - 10:30am Break	10:30 - Noon Session 1 Harmful Algae Blooms	Noon - 1:30pm Lunch Secchi Award, Scholarship Winners	1:30 - 3pm Session 2 Invasive and Nuisance Aquatic Species	3 - 3:30pm Break	3:30 - 5:00pm Session 3 Hot Topics in Lake Restoration and Management	5:00 - 7pm Poster Session/Social Hour Wine and Cider Tasting, Raffle Drawings, Silent Auction Closes, Live Hydrolab and YSI Auction	7am Registration/Breakfast	8am Session 4 Fish Ecology and Management	9:30-10am Break