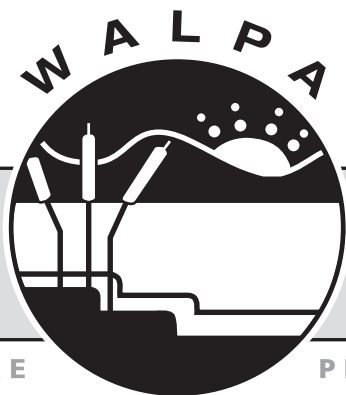


# 28th Annual Conference



Oct. 26th-28th, 2015  
Walla Walla, WA

WASHINGTON STATE LAKE

PROTECTION ASSOCIATION

## *Looking Back to Prepare for the Future*

### WALPA Conference Special Events:

#### 2015 Secchi Disk Award

The Secchi Disk award is presented each year to a WALPA member in recognition of their outstanding contribution to the science, management, or protection of lakes in Washington or Idaho. The WALPA board is pleased to honor two outstanding individuals in 2015 – **TO BE ANNOUNCED**. Awards will be presented during the WALPA business meeting during lunch on Tuesday.

#### Evening Social

Please join us on Wednesday night to taste the local wines of Walla Walla. 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



#### Annual Raffle / Silent Auction

During the evening social, WALPA will be holding its annual raffle & silent auction 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. You must be present to win raffle items and to bid in the auction – we hope to see you there.

#### WALPA Visioning Session

Help shape the future of WALPA by participating in the Tuesday visioning session. Whether you are a long-time member or new to WALPA your ideas and opinions can help to ensure we meet our mission of allowing diverse interests to speak with one voice to protect lakes.

#### New WALPA Lake Association Mapping Tool

Central Washington University's Center for Spatial Information and Research has been helping WALPA to develop a web mapping application that will help to better identify and improve communication with lake associations. Come see a preview at the evening social.

*-Thank you to David Cordner and Anthony Gabriel for their hard work and contribution to WALPA!*

#### WALPA Business Meeting Agenda

- 1) **Introduction** – Chris Knutson
- 2) **Scholarship Awards** – Dr. Frank Wilhelm
- 3) **Retiring Board Members and Past-President** – Randy Hadland
- 4) **Announcing New Board Members** – Randy Hadland
- 5) **WALPA 2015 review & goals for 2016** – Marisa Burghdoff

#### REMINDERS

**Elections** – Turn in your ballots at registration

**Student Awards** – Be sure to pick the best student talk (voting after conference) and student poster (voting at social).

**Photo Contest** – Cast your vote for this year's best photographer

**Recertification Credits** – Sign up at Registration to qualify for applicator license credits

# Looking Back to Prepare for the Future

## SESSION SCHEDULE

### Monday – October 26th

#### 1:00 - Registration

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

##### Workshop A: Phosphorus Inactivation and Interception – Lewis Room

- **Harry Gibbons**, Tetra Tech, Inc and **Shannon Brattebo**, Tetra Tech Inc; *“Lake and pond phosphorus inactivation and interception”*

##### Workshop B: Freshwater Plant and Algae Identification – Empire Room

- **Jenifer Parsons**, WA Dept. of Ecology, and **Ben Peterson**, King County Noxious Weeds, *“Identification of submerged, floating, and emergent aquatic plants.”*
- **Rachael Gravon**, King County Water and Land Resources Division, and **Karl Bruun**, Nostoca Algae Laboratory, *“Classification and identification of freshwater algae.”*

### Tuesday – October 27th

#### 7:00 - Registration / Breakfast

#### Exhibitor Booths / Raffle & Silent Auction Open

#### 8:30 – Welcome & Plenary Session

##### Explorer Ballroom

*“Thirty Years of WALPA history – the successes, the challenges, and the people”* – Past and current WALPA leaders will walk us through our organization’s history with a focus on preparing for the future.

- **Harry Gibbons**, Founding member and President (1990), Tetra Tech, Inc.
- **Gene Williams**, past officer (1995 – 2002 & 2006 – 2007), Snohomish County Surface Water Mgmt.
- **Rob Zisette**, President (2001), Herrera Environmental Consultants
- **Sally Abella**, President (2004), recently retired – formerly King County Water and Land Resources Division
- **Bijay Adams**, President (2005 & 2010), Liberty Lake Sewer and Water District
- **Jim Gawel**, President (2011), University of Washington Tacoma

#### 10:00 - Break

#### 10:30 - Session 1

##### Lake Restoration – Explorer Ballroom

- **Amy Martin**, Session Chair
- **Speakers:**
  - **Derek Stuart**, Northwest Hydraulic Consultants and **Marcie Appel**, Benton Conservation District, *“Undoing the past, improving fish passage through the Yakima River delta”*
  - **Jean Jacoby**, Seattle University, *“Reduction of Cyanobacteria Blooms by Reducing Internal Loading with Alum”*
  - **Gene Williams**, Snohomish County Surface Water Management, *“A New Life for Lake Ketchum: Restoration of a Hyper-eutrophic Lake”*
  - **Rob Zisette**, Herrera Environmental Consultants, *“Planning for a Third Alum Treatment to Control Toxic Cyanobacteria Blooms in Green Lake”*

#### 12:00 – Lunch

##### Secchi Award, Scholarship Winners and other WALPA Business – Renaissance Room

#### 1:30 - Session 2

##### Monitoring and Data Analysis - Explorer Ballroom

- **Josh Wozniak**, Session Chair
- **Speakers:**
  - **Frank M. Wilhelm**, Department of Fish and Wildlife Sciences, University of Idaho, *“How meaningful are those lake sampling sites you chose?”*
  - **Joan Hardy**, Washington Department of Health, *“Update on Harmful Algal Bloom Projects”*
  - **Curtis DeGasper**, King County Water and Land Resources Division, *“Review of King County’s Lake Buoy Monitoring System”*
  - **Jenifer Parsons**, Washington Dept of Ecology, *“New map-based website organizes Ecology’s lake information”*

#### 3:00 - Break

#### 3:30 – Session 3

##### Lake Pollution / Toxics - Explorer Ballroom

- **Randy Hadland**, Session Chair
- **Speakers:**
  - **Frank Dunnivant**, Whitman College, Chemistry Department, *“Chlorinated Pesticides and Isotopic Mercury in Waters from Pacific Northwest Alpine Lakes”*
  - **Andrew W. Child (GRAD)**, Washington State University, *“Following the yellow brick road of paleolimnology: Tracking long-distance atmospheric smelter waste deposition in remote lakes”*



#### 4:00 – Session 4

##### WALPA Planning for the Future

Join us for a special visioning session to help provide direction for the WALPA board and membership in 2016 and beyond. Everyone is encouraged to participate including new members. We will be breaking into smaller groups with focused topics related to WALPA’s mission. The topics will be finalized based on the discussion at the plenary talk and business meeting.

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

##### Wine Tasting, Raffle Drawings, Silent Auction Closes

Sponsored by OTT Hydromet



### Wednesday – October 28th

#### 7:00 - Registration / Breakfast

#### 8:00 - Session 5

##### Hot Topics in Lake Management - Explorer Ballroom

- **Chris Knutson**, Session Chair
- **Speakers:**
  - **Timothy Clark**, King County Department of Natural Resources and Parks, *“Impacts of saltwater intrusion into an urban freshwater lake”*
  - **Joy Michaud**, Herrera Environmental Consultants, *“In Search of the Magic Potion - Bioretention”*
  - **Timothy Taylor (GRAD)**, Washington State University, *“How Many Fish Can We Stock? Using Carrying Capacity as a Concept to Provide Insight on Brook Trout Stocking on Owhi Lake, WA”*
  - **Steve Bollens**, Washington State University, *“Invasive Mussel Monitoring in the Columbia River Basin — Past, Present, and Future.”*

#### 9:30 - Break

#### 10:00 - Session 6

##### Nutrient Cycling - Explorer Ballroom

- **Jennifer Oden**, Session Chair
- **Speakers:**
  - **Trea LaCroix (GRAD)**, University of Idaho, *“A mass balance approach using high*

*resolution data to understand nutrient concentrations and loads that influence algal blooms in a small lake”*

- **Darren Brandt**, Advanced Eco-Solutions Inc., *“Using Periphyton Accumulation Rates and Cell Densities to Determine Nearshore Productivity Rates and Identify Potential Areas for Nutrient Control Efforts”*
- **Sarah H. Burnet (GRAD)**, University of Idaho, *“The need for multiple within-lake sites to determine rates of internal loading from sediment cores”*
- **Jim Gawel**, University of Washington Tacoma, *“The new Spirit Lake: hydrology, nutrient cycling and biological productivity”*

#### POSTERS – ON DISPLAY THROUGHOUT THE CONFERENCE

- **Robert Ardissono (UG)**, University of Washington Tacoma, *“Characterizing Organic Carbon in an Arsenic Contaminated Oxidic Lake”*
- **Michelle Bahnick (GRAD)**, Western Washington University, Washington State University, *“Evaluation of the Stream Function Assessment Methodology (SFAM) for determining the presence and activity of ecological processes in Pacific Northwest watersheds”*
- **Ken Burkart (UG)**, University of Washington Tacoma, *“Nutrient contributions from floating logs in Spirit Lake, WA”*
- **Andrew W Child (GRAD)**, Washington State University, *“Sockeye salmon spawning in Lake Roberta: smells fishy”*
- **Anthony Gabriel**, Department of Geography, Central Washington University, *“Potential Sources of Nonpoint Pollution in Washington State Lake Parks”*
- **Erin Hull (UG)**, University of Washington Tacoma, Washington State University, *“Mobility and Bioaccumulation of Arsenic in Shallow Unstratified and Seasonally Stratified Urban Lakes”*
- **Corey King (UG)**, University of Washington Tacoma and **Rebecca Rigg (UG)**, University of Washington Tacoma *“Determining sources of nutrients in a shallow, eutrophic, kettle lake in Lakewood, Washington”*
- **Brian Lanouette (GRAD)**, Washington State University, *“Influences of resource competition and predation on a Kokanee (Oncorhynchus nerka) fishery in an Eastern Washington Lake”*
- **Heather Rawley (UG)**, University of Washington Tacoma, *“Nitrogen cycling in the post-eruption Spirit Lake, Mount St. Helens National Volcanic Monument”*

Special thanks to our sponsors

## GOLD



## SILVER



a xylem brand

**Northwest Aquatic  
Management, LLC**



**nhc**  
northwest  
hydraulic  
consultants

## BRONZE



WALPA 28th CONFERENCE SCHEDULE 2015		MON	TUES							WED
1:00pm Registration		2-5:00pm Workshops A & B	7am Registration/Breakfast Exhibitor Booths / Raffle & Silent Auction Open							7am Registration/Breakfast
A - Phosphorus Inactivation and Interception	B - Freshwater Plant and Algae Identification	8:30 - 10am Welcome & Plenary Session	10 - 10:30am Break	10:30 - Noon Session 1 Lake Restoration	Noon - 1:30pm Lunch Secchi & Scholarship Winners, WALPA Business	1:30 - 3pm Session 2 Monitoring and Data Analysis	3 - 3:30pm Break	3:30 - 4:00pm Session 3 Lake Pollution / Toxics	4 - 5:00pm Session 4 WALPA - Planning for the Future	8am Session 5 Hot Topics in Lake Management
5:00 - 7pm Poster Session / Social Hour Wine Tasting, Raffle Drawings, Silent Auction Closes - Sponsored by OTT Hydromet		9:30-10am Break							10am Session 6 Nutrient Cycling	