

IDAHO WATER QUALITY WORKSHOP

Tuesday, January 29, 2019. 12:00 pm – 6:00 pm

Jordan Ballroom, Boise State University

Session 1 – Water Quality Trends, Nutrients

Registration opens at 12:00 p.m. Refreshments sponsored by IWRR

- 1:00 p.m. – 1:10 p.m. **John Tippetts**
Director, Idaho Department of Environmental Quality
Welcome
- 1:10 p.m. – 1:45 p.m. **Keynote: Karen Ryberg**
U. S. Geological Survey - Dakota Water Science Center
Trend Analysis, Mark Twain, and Changes in Idaho Water Quality
- 1:45 p.m. – 2:10 p.m. **Greg Mladenka**
Idaho Department of Environmental Quality
Observations from Two Decades of Continuous Data Collections in S.E. Idaho
- 2:10 p.m. – 2:30 p.m. **Josie Erskine**
Ada Soil & Water Conservation District
Using No-Till Farming to Reduce Agricultural Runoff
- 2:30 p.m. – 2:50 p.m. **Erin Brooks**
University of Idaho
Hydrologic and Nutrient Response Following Long Term Adoption of No-Till
- Break: sponsored by The Freshwater Trust*
- 3:15 p.m. – 3:40 p.m. **Jason Williams**
Idaho Department of Environmental Quality
Evaluation of Artificial Sweeteners and Caffeine as Septic Effluent Markers in an Urbanizing Agricultural Watershed
- 3:40 p.m. – 4:05 p.m. **Jack McLaren**
Henry's Fork Foundation
Water Supply and Management Alter Temperature and Oxygen Patterns in the Henry's Fork River and Island Park Reservoir
- 4:05 p.m. – 4:25 p.m. **Paul Kusnierz**
Avista
Total Dissolved Gas and Gas Bubble Disease in the Lower Clark Fork River: What Have We Learned in the Last 20 Years?
- 4:25 p.m. – 4:45 p.m. **Cathy Gidley**
Aquafish Consulting, LLC
Kootenai River Ecosystem Restoration Project Water Quality Summary, 2003-2016

Social Hour and Poster Session: sponsored by EcoAnalysts (until 6:00 p.m.)

IDAHO WATER QUALITY WORKSHOP

Wednesday, January 30, 2019. 8:15 am – 11:50 am

Jordan Ballroom, Boise State University

Session 2 – Change, Adaptation, and Restoration

Morning Refreshments: sponsored by Clean Water Partners (from 8:15 a.m.)

8:35 a.m. – 9:10 a.m.

Keynote: Charles Luce

U. S. Forest Service – Rocky Mountain Research Station

The Changing Hydrology of Idaho

9:10 a.m. – 9:30 a.m.

Monica Hubbard

Boise State University

Climate Change Adaptation: Idaho's Rural and Urban Differences in Acceptance of Idaho Water Resource Management Strategies

9:30 a.m. – 9:50 a.m.

Peter Anderson and Matt Mayfield

Trout Unlimited

Idaho Water Transaction Tool

9:50 a.m. – 10:10 a.m.

Robert Mahler on behalf of **Ronda Hirnyck**

University of Idaho

Protecting Water Quality with Pesticide Safety Education Programming

Break: sponsored by OTT Hydromet

10:35 a.m. – 11:00 a.m.

Christy Meyer

The Freshwater Trust

Data Collection and Management Tools for Watershed Restoration Programs

11:00 a.m. – 11:25 a.m.

Robert B. Tiedemann

University of Idaho Center for Ecohydraulics Research

Predicted Trajectory of the Black Cottonwood Forest Community Growing Along the Lower Boise River and Its Effect on Water Quality and Beneficial Uses

11:25 a.m. – 11:50 a.m.

Kurt Fesenmyer

Trout Unlimited

Response of Riparian Vegetation, Instream Habitat, and Aquatic Biota to Riparian Grazing

IDAHO WATER QUALITY WORKSHOP

Wednesday, January 30, 2019. 11:50 am – 4:45 pm

Jordan Ballroom, Boise State University

Session 3 – Citizen Data Collection, Algal Blooms

11:50 a.m. – 1:15 p.m. **Keynote Lunch:** *co-sponsored by YSI and HDR*

Kristine Stepenuck

University of Vermont

and former chair of the Citizen Science Association board of directors

Engaging Volunteers in Water Monitoring: Motivations, Outcomes and Impacts on
Natural Resource Management and Policy

1:35 p.m. – 1:55 p.m.

Melissa Topping

University of Idaho

Crowd-Sourced Research as Data Acquisition Tool for Use in the Columbia River
Basin

1:55 p.m. – 2:15 p.m.

Chantilly Higbee

Pend Oreille Waterkeeper

Lake Pend Oreille Waterkeeper Volunteer-Based Water Quality Monitoring Program
and Data Display

2:15 p.m. – 2:35 p.m.

Robert L. Mahler

University of Idaho

Preferred Water Resource Information Sources and Learning Opportunities in the
Pacific Northwest

2:35 p.m. – 2:55 p.m.

Sara Cassinelli

Idaho Department of Environmental Quality

Engaging the Non-Scientific Community through Social Media Storytelling

Break: *sponsored by Frontier Precision*

3:25 p.m. – 3:45 p.m.

Rebecca Flock

College of Western Idaho

Early Identification of Harmful Algal Blooms: A Case for Citizen Science Monitoring

3:45 p.m. – 4:05 p.m.

Maureen Pepper

Idaho Department of Environmental Quality

IDEQ Coordinated Drinking Water Activities on Cyanotoxins

4:05 p.m. – 4:25 p.m.

Jesse Naymik

Idaho Power Company

Inflow Nutrients and Algae Trends Related to Reservoir Dissolved Oxygen
Conditions in Brownlee Reservoir, 1995 Through 2017

4:25 p.m. – 4:45 p.m.

Austin Baldwin

U. S. Geological Survey

Seasonal Methylmercury Export from the Hells Canyon Reservoir Complex

IDAHO WATER QUALITY WORKSHOP

Thursday, January 31, 2019. 8:30 am – 12:00 pm

Jordan Ballroom, Boise State University

Session 4 – Toxics, Ground Water

Morning Refreshments: sponsored by Idaho Water Engineering (from 8:30 a.m.)

- 8:50 a.m. – 9:10 p.m. **Gus Womeldorph**
Boise State University
A Study of Uranium Concentrations in the Treasure Valley Aquifer System
- 9:10 a.m. – 9:30 a.m. **Brian Penttila**
Washington Department of Ecology
PFAS: What Are They, And What Can We Do About Them?
- 9:30 a.m. – 9:50 a.m. **David Blew and Neal Farmer**
Idaho Power Company and Idaho Department of Water Resources
Water Quality Monitoring on the Eastern Snake Plain Aquifer, Insights from a Decade of Ground Water Tracer Studies
- 9:50 a.m. – 10:10 a.m. **Gordon Rattray**
U. S. Geological Survey
Using Groundwater Geochemistry to Improve Groundwater Flow Models

Break: sponsored by Brown and Caldwell

- 10:40 a.m. – 11:05 a.m. **Lauren M. Zinsser**
U. S. Geological Survey
Trace Metal and Nutrient Loads from Groundwater Seepage into the South Fork Coeur d'Alene River
- 11:05 a.m. – 11:30 a.m. **Morgan Willming**
Idaho Department of Health and Welfare
Coeur d'Alene Basin Fish Tissue Analysis and Updates to the Consumption Advisory
- 11:30 a.m. – 11:55 a.m. **Mary Lou Soscia and Ben Jarvis**
U. S. Environmental Protection Agency and Idaho Department of Environmental Quality
Status of the Columbia Basin Restoration Program and its Implications for Idaho
- 11:55 a.m. – 12:00 p.m. **Closing Remarks**