All sessions will be held in the Simplot Ballroom and online.

There is no fee to attend the conference. Snacks and beverages are provided by our sponsors.

**WEDNESDAY March 16**

8:00 am - 9:00 am  
**SIGN-IN/REGISTRATION**

9:00 am - 12:00 pm  
**SESSION 1: AGRICULTURE AND NUTRIENTS**

1:30 pm - 4:20 pm  
**SESSION 2: DATA AND RESTORATION**

**SOCIAL HOUR AND POSTER SESSION**

Following Session 2

**THURSDAY March 17**

9:00 am - 12:00 pm  
**SESSION 3: SELENIUM AND MERCURY**

1:30 pm - 3:50 pm  
**SESSION 4: RESERVOIRS, HABS AND BACTERIA**

The Water Quality Workshop is produced by Idaho DEQ and funded by the US EPA. BSU Department of Geosciences provides venue and operational support. Venue sponsor: Idaho Power.
## SESSION 1: Agriculture and Nutrients

Registration opens at 8:00 am. Morning Coffee sponsored by CWT Training Academy

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Affiliation</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>9:00 am</td>
<td>AMY YODER</td>
<td>U.S. Geological Survey</td>
<td>High Frequency Total Phosphorus Observations from the Lower Boise River</td>
</tr>
<tr>
<td>9:20 am</td>
<td>HAL ANDERSON</td>
<td>Idaho Water Engineering</td>
<td>Bioengineered Solutions for Reducing Pollutants in Agricultural Return Drains</td>
</tr>
<tr>
<td>9:40 am</td>
<td>HOWARD NEIBLING</td>
<td>University of Idaho</td>
<td>Magnetically Influenced Water Improves Poor Water Quality</td>
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<tr>
<td>10:00 am</td>
<td>KOSSI NOUWAKPO</td>
<td>USDA-ARS Irrigation and Soils Research Laboratory</td>
<td>Patterns and Associations Between Major Crops and Water Quality in the Twin Falls Canal Company Irrigation Project</td>
</tr>
<tr>
<td>10:20 am</td>
<td>KENNETH SKINNER</td>
<td>U.S. Geological Survey</td>
<td>Trends in Nitrate and Orthophosphate Concentrations and Groundwater-Levels in the Middle Snake River Region</td>
</tr>
<tr>
<td>11:00 am</td>
<td>BRYCE OLDEMEYER</td>
<td>Henry’s Fork Foundation</td>
<td>Understanding the Relationship Between Palisades Reservoir Storage and Sediment Mobilization in the South Fork Snake River</td>
</tr>
<tr>
<td>11:20 am</td>
<td>TAYLOR DUDUNAKE</td>
<td>U.S. Geological Survey</td>
<td>Modeling the Hydraulic and Water Quality Habitat Suitability for Macrophytes in the Middle Snake River</td>
</tr>
<tr>
<td>11:40 am</td>
<td>DYLAN HARP</td>
<td>The Freshwater Trust</td>
<td>Graph-Theoretic Approach to Account for the Role of Agricultural Drains in Water Quality Management</td>
</tr>
</tbody>
</table>
SESSION 2: Data and Restoration
Afternoon Coffee sponsored by Overland Distributing Company

1:30 pm | **ERIC BERNTSEN** *Kalispel Tribe of Indians*
Integrating Regional and Local Monitoring Data and Assessment Tools

1:50 pm | **LYNN VAN EVERY** *Idaho Department of Environmental Quality*
Water Quality Trends in the Portneuf River Watershed

2:10 pm | **MATT GREEN** *Trout Unlimited*
Indian Springs/Little Sawmill Creek Restoration Project

2:30 pm | **DARCY HELMICK** *Simplot Land and Livestock*
and **JOSHUA WHITE** *U.S. Fish and Wildlife Service*
Working Across a Watershed to Enhance Riparian Habitat

2:50 pm | **BREAK** Sponsored by Frontier Precision

3:20 pm | **ROBERT TIEDEMANN** *Boise River Enhancement Network*
Conservation Stewards Building the Ark (aka: Taking the Idaho Riparian Forest Through a Time of Changing Climate)

3:40 pm | **JASON WILLIAMS** *Idaho Department of Environmental Quality*
Lochsa River Subbasin Stream Temperature Natural Conditions Assessment

4:00 pm | **KYLE DUCKETT** *Alta Science and Engineering*
A First Look at Groundwater Quality at the Bunker Hill Superfund Site with Completion/Operation of the Groundwater Collection System

4:20 pm | **SOCIAL HOUR AND POSTER SESSION**
Refreshments sponsored by Xylem YSI (until 5:30 p.m.)
SESSION 3: Selenium and Mercury
Morning Coffee sponsored by Clean Water Partners, LLC & Idaho Water Engineering (from 8:30am)

9:00 am | SCOTT DUCAR  U.S. Geological Survey
Sediment Transport in the Yankee Fork of the Salmon River: 2012-2019

9:20 am | JOHANNA KRAUS  U.S. Geological Survey
Increased Mercury and Reduced Insect Diversity in Linked Stream-Riparian Food Webs Downstream of an Historical Mercury Mine

9:40 am | JOANN HOLLOWAY  U.S. Geological Survey
Assessment of Mercury Mobilization in Monumental Creek

10:00 am | LADONNA CHOATE  U.S. Geological Survey
What Information Can Be Gained from Analysis of Colloids

10:20 am | SNACK BREAK  Sponsored by The Freshwater Trust

10:40 am | AUSTIN BALDWIN  U.S. Geological Survey
Relations Between In-Reservoir Processes and Aqueous and Biological Mercury Export from the Hells Canyon Complex

11:00 am | TATE LIBUNAO  Idaho Water Resources Research Institute
Signal Crayfish in the Columbia River Basin: Are They Effective Environmental Sentinels for Mercury Concentration?

11:20 am | GENNY HOYLE  and SHAWN YOUNG  Kootenai Tribe of Idaho
Elk River Mining: The Effects of Selenium on the Kootenai River Biota and Implications for Management
SESSION 4: Reservoirs, HABs and Bacteria

Afternoon snacks sponsored by HDR. Beverages sponsored by T-O Engineers

1:30 pm  | COLIN CUSTER  *City of Boise*
The Continued Search for Freshwater Mussels in the Lower Boise River

1:50 pm  | TERRY MCNABB  *Aquatechnex*
Monitoring and Managing Harmful Algae Blooms

2:10 pm  | CRAIG COOPER  *Idaho Department of Environmental Quality*
Phosphorus and Nitrogen Inventory for Coeur d’Alene Lake Tributaries

2:30 pm  | DORENE MACCOY  *City of Boise*
Esther Simplot Pond Complex Water Quality Monitoring 2016-2022

2:50 pm  | FLINT HALL  *Idaho Department of Environmental Quality*
Island Park Bacteria Investigation 2020-2021

3:10 pm  | WESLEY ULLOA  *Nephros*
Improving Waterborne Pathogen Detection Using Onsite Molecular Diagnostics

3:30 pm  | KERRI TREINEN  *U.S. Geological Survey*
Evaluating Hydrologic Processes in the Eastern Snake River Plain Aquifer with Uranium and Strontium Isotopes