

## 2019 Idaho Reuse & Operators Conference

### \*Tuesday May 21 Agenda

Start time	End time	Wastewater Track	Drinking Water/ Reuse Track	Laboratory Track	Collections/ Pretreatment Track	Tours
7:00 AM	8:30 AM	<b>Breakfast Buffet</b>				
8:30 AM	9:45 AM	Operators opening session in ballroom: John Tippetts, DEQ Director and Art Umble, Stantec and Jay Irby, President of SWIOS				
9:45 AM	10:00 AM	BREAK	BREAK	BREAK	BREAK	
10:00 AM	11:00 AM	Phosphorus Mass Balance and Struvite - Rick Kelly, Brown and Caldwell	Harmful Algae Blooms: Management Options for Utilities -Dr. Stephanie Smith, Xylem	Making Sense of Microbiological Sampling: Why is it Important and What Does it Mean? -Jay Garland, Division Director, EPA's National Exposure Research Laboratory	Collection System Troubleshooting - Keith Slack, City of Boise	
11:00 AM	11:15 AM	BREAK	BREAK	BREAK	BREAK	
11:15 AM	12:15 PM	Operational Troubleshooting of Biological Nutrient Removal Systems - Bill Leaf, Jacobs	Operating Data and Lessons Learned from Sunny Slope Water Company's Microvi Nitrate Removal System - Adrian Williams, WesTech Engineering	IPDES Permit Development Information: How Facility Operations Inform the Permit Process - Kate Harris, City of Boise	Hydraulics Primer - Rich Wiebe, City of Boise	
12:15 PM	1:30 PM	<b>Lunch Buffet &amp; Vendor Booths</b>				Tour bus/van will be at Riverside Ballroom Lobby Entrance
1:30 PM	2:30 PM	Optimization of Biological Nitrogen Removal: Practical Considerations - Tyson Schlect, HDR	UV Disinfection from Wastewater to Water Reuse and Beyond - June Leng, HDR	BNR and Microscopy Part 1: BNR System Overview - Rick Kelly, Brown and Caldwell	Industrial Pretreatment- Tyson Knudsen, CES	At 1:30 pm tours leaves Riverside. Meet bus by 1:15 pm. Must be pre-registered for CS Beef or 20 Mile South Farm tour.
2:30 PM	2:45 PM	BREAK	BREAK	BREAK	BREAK	
2:45 PM	3:45 PM	Tips from a Roadie to Tune Up Your O&M Manuals - Andy O'Neill, WA Dept. of Ecology	Operations and energy - Chellie Jensen, Idaho Power and Wendy Waudby, Cascade Energy	BNR and Microscopy Part 2: Use of Microscopy to Evaluate AS and BNR Systems - Rick Kelly, Brown and Caldwell	Lean a little bit closer: Twin Falls Grandview Sewer - Mark Cummings, Murray Smith	
3:45 PM	4:00 PM	BREAK	BREAK	BREAK	BREAK	
4:00 PM	5:00 PM	Nutrient Recovery using Advanced Biological Nutrient Recovery - Kevin McGraw, Clearas	Now serving unleaded drinking water - Terry Tucker, Castle Mountain and Kenny Everhart, Wilderness Ranch	Whole Effluent Toxicity: Introduction, Regulation, Tips for Success - Kate Harris, City of Boise	Temporary Bypass Pumping - John Laible, Rain for Rent and Keith Slack, City of Boise	
5:00 PM	6:00 PM	Break				
6:00 PM	8:00 PM	Operators Awards Banquet in Ballroom - SWIOS, SEIOS, NIOS awards and raffles				

**\*Wednesday May 22 Agenda**

Start time	End time	Wastewater Track	Water Reuse Conference	Laboratory Track	Collections Track		
7:00 AM	8:30 AM	<b>Breakfast Buffet</b>					
8:00 AM	9:00 AM	Wastewater Treatment Review 101: Clean Water and Biosolids - Ken Windram, Hayden Area Regional Sewer Board	<b>Water Reuse Opening session:</b> Reuse in Idaho, Pacific Northwest and the US - Art Umble, Stantec	IPDES Laboratory & Facility/Permit Basics - Tyler Fortunati, Idaho DEQ	High Tech Operator: On Overview of SCADA Systems for Operators and City of Bend's SCADA Upgrade Project - Jim Woodrich, HDR		
9:00 AM	9:15 AM	BREAK	BREAK	BREAK	BREAK		
9:15 AM	10:15 AM	Nampa Biosolids Project - Andy Zimmerman, City of Nampa and Shelby Smith, Brown and Caldwell (30 minutes)	City of Boise's watershed and reuse - Mayor Dave Bieter, Steve Burgos, Haley Falconer, and Kate Harris City of Boise	Advanced IPDES E-Permitting and NetDMR - Troy Smith, Idaho DEQ	Collections safety - Laurelei McVey, City of Meridian		
		Lagoon Biosolids Removal and Disposal – Once and Done - Stuart Hurley, Mountain Waterworks (30 minutes)					
10:15 AM	10:30 AM	BREAK	BREAK	BREAK	BREAK		
10:30 AM	12:00 PM	Reuse Land Application: Soil Plant Water Relationships - Franklin Gaudi, Cal Poly	Regenerative Design & Water Reuse: Lessons from Mars and Early Adopters on Earth - Jay Garland, Division Director, EPA's National Exposure Research Laboratory	Jar testing and Chemicals for Phosphorus removal - Ron Gearhart, City of Boise (45 minutes)	Life cycle Cost for Wastewater Pumping Systems - Alden Meade, Xylem (45 minutes)		
			City of Nampa on wastewater treatment and water recycling - Mayor Deborah Kling and Nate Runyan, City of Nampa	The Fundamentals of Electrochemistry - Mark McElroy, Thermo Fisher Scientific (45 minutes)	Variable Speed Wastewater Pumping, Challenges and Opportunities - Alden Meade, Xylem (45 minutes)		
12:00 PM	1:30 PM	<b>Lunch Buffet &amp; Vendor Booths</b>					
		<b>followed by poetry &amp; art awards, readings and raffles from 1-1:30 pm in Ballroom</b>					
1:30 PM	2:30 PM	Reuse Land Application: Soils - Mike Murray, HDR	Direct Potable Reuse: Managing collection systems, treatment, and operations - Jeff Mosher, Carollo	Use of On-Line Analyzers in the monitoring and control of Phosphorus Removal in Wastewater Treatment - David Roskwic, ChemScan	Why and how we clean and CCTV sewer and storm systems - Sheldon Teeples, Subsite Electronics	Tour bus/van will be at Riverside Ballroom Lobby Entrance	
2:30 PM	2:45 PM	BREAK	BREAK	BREAK	BREAK		
2:45 PM	3:45 PM	Reuse Land Application: Practical Distribution Uniformity and Irrigation Efficiency Considerations - Franklin Gaudi, Cal Poly	Reuse Case studies: Crooked River Wetlands Effluent Reuse Project - Eric Klann and Betty Roppe, City of Prineville	Data Management - Eric Lehmann, HACH	Legally Required Standby Engine-Generation in Wastewater Treatment Plants - John Barrutia and Craig Hartman, DC Engineering	At 3 pm Lander Street Tour leaves Riverside. Meet bus by 2:45 pm. Must be preregistered for tour.	
3:45 PM	4:00 PM	BREAK	Recycled water use in a hospital	BREAK	BREAK		
4:00 PM	5:00 PM	Reuse Land Application: Irrigation Scheduling - Franklin Gaudi, Cal Poly	John Poppe, Silverdale Water District <i>followed by</i> Navigating the Road to Reuse: How a Pint of Beer sparked a reuse revolution in Oregon and beyond - Clean Water Services	Method Detection Level and the 40 CFR 136 Method Update Rule - Stephen Quintero, City of Boise	H2S Corrosion in Collection Systems - Daniel Porter, Brown and Caldwell		
5:00 PM	6:30 PM	Sponsor & Vendor Reception in Fireside and Convention Center Lobby					
6:30 PM	8:00 PM	Dinner Break (on your own)					
8:00 PM	9:30 PM	Comedian Hank Patterson - "Your fly fishing guide" in Riverside Ballroom					

**\*Thursday May 23 Agenda**

Start time	End time	Wastewater Track	Water Reuse Conference
7:30 AM	8:45 AM	<b>Breakfast Buffet</b>	
8:00 AM	9:00 AM	Making Wise Investments with the help of Odor Master Planning- Miaomiao Zhang, Murray Smith	Communications and Outreach with Reuse - Jacqueline Klug, President WateReuse Pacific Northwest Section
9:00 AM	9:15 AM	BREAK	BREAK
9:15 AM	10:15 AM	Ammonia Limits and Lagoons - Jeremy Jenson, isiWest and CJ Stain, Nexom	Membranes 101 - Dan Hugaboom, Carollo
10:15 AM	10:45 AM	Pre-Fabricated Treatment Systems and Advanced MBRs - Ryan Asbury, Smith & Loveless	Simple System, Complex Permit: How the Southside Water and Sewer District Manages Their Reuse Operation Up-Gradient from Their Drinking Water Well - Jim Haynes, SWSD Board Chair and Chris Horgan, J-U-B Engineers
10:45 AM	11:00 AM	BREAK	BREAK
11:00 AM	12:00 PM	SCADA in the cloud - Rick Patton, Advanced Control Systems	Reuse land application, the 'art' and science of operations - Franklin Gaudi, Cal Poly
12:00 PM	1:00 PM	<b>Lunch Buffet</b>	
1:00 PM	1:30 PM	no session	Sewer District Implements Private/Public Reuse System - Dale Caza, District Manager, PLRWSD and Brett Converse, J-U-B Engineers and David Watkins, J-U-B Engineers
1:30 PM	2:00 PM		Water Reuse on Top of the Mountain - Schweitzer's Unique Solution - Tom Trulock, Mountain Utility Company and Scott McNee, T-O Engineers
2:00 PM	2:30 PM	no session	Recycling Conventional Wastewater from Unconventional Facilities - Stuart Hurley, Mountain Waterworks
2:30 PM	2:45 PM	BREAK	BREAK
2:45 PM	3:30 PM	no session	Finding the Fun in Funding - Cynthia Wall, WA Dept. of Ecology
3:30 PM	4:30 PM	no session	Water reuse from a regulators point of view: multi-state regulators panel discussion
4:30 PM	4:45 PM	no session	Wrap-up

**Notes:**

- \*Agenda is subject to change
- Those registered can attend any session
- Idaho Bureau of Occupational Licensing (IBOL) continuing education credits (CEUs) are pending for wastewater (WW) and drinking water (DW) – as applicable
- Washington Operator CEUs are pending for WW and DW.