



MSAWWA PRECONFERENCE

“Invasive Mussels—What To Expect & How To Prepare”

Tuesday—May 15, 2018

7:00 am—5:00 pm Registration desk open (Rotunda-Hilton Garden Inn)

8:00 am—5:00 pm All day session including lunch (tbd)

5:00 pm—6:30 pm Ice Breaker—Beer/wine & appetizers (Exhibitor Area—Rotunda & Room D)

Preconference Session—Room location: tbd	
Moderators: Doug Whitney, KLJ Engineering	
8:00—8:15	Preconference Welcome & Overview— Doug Whitney, KLJ/Chair MSAWWA Education Committee
8:15—9:00	History of Invasive Mussels in the United States— Stephen Phillips, Pacific States Marine Fisheries Commission
9:00—9:15	BREAK
9:15—9:45	Current Status of Invasive Mussels in Montana— Sarah Biggs, Montana FWP AIS Supervisor
9:45—10:15	Control Efforts & Natural Spread in Montana— Sarah Biggs, Montana FWP AIS Supervisor
10:15—10:30	BREAK
10:30—11:15	What’s Plugging My Intake?— Brian LeMon, BARR
11:15—12:00	Innovative Ideas/New Technology/Research & Development for Mussel Control— Leonard Willett, RNT Consulting
12:00—1:00	LUNCH (provided)—Room location: tbd
1:00—1:45	Biological Control of Invasive Mussels— Keith Pitts, Marrone Bio Inovations
1:45—2:30	Control of Zebra Mussels with a More Rational Use of Copper— David Hammond, Earth Science Laboratories
2:30—2:45	BREAK
2:45—3:30	Smart Intake Design for Invasive Mussels— David Carlson, AE2S
3:30—4:15	Intake Coating System Case Study— Brian LeMon, BARR
4:15—4:30	BREAK
4:30—5:00	Q&A and Panel Discussion—All Speakers



PRELIMINARY CONFERENCE SCHEDULE
“Working Together To Protect Montana’s Water Resources”
May 16-17, 2018

Overview

Wednesday—May 16, 2018

7:00 am—8:00 am	Early Morning Break (Exhibitor Area—Rotunda & Room D)
7:00 am—5:00 pm	Registration desk open (Rotunda)
8:00 am—11:30 am	Morning General Session & Awards (Room E-F-G)
11:30 am—12:30 pm	Lunch (Buffet—Room D)
1:00 pm—5:30 pm	Afternoon Concurrent Sessions (see breakout schedule for locations)
5:30 pm—6:30 pm	Social Hour—Beer & wine (Exhibitor Area—Rotunda & Room D)
6:30 pm—8:30 pm	Banquet & Awards (Room A-B-C)
8:30 pm—10:00 pm	Entertainment—Casino Night! (tbd)

Morning General Session—Preliminary Schedule

General Session—Room location: Room (E-F-G)	
Moderators: Jeff Ashley, MSAWWA Chair & Jeremy Perlinski, MWEA President	
8:00—8:15	Welcome and Opening Session Jeff Ashley, MSAWWA Chair & Jeremy Perlinski, MWEA President John Engen, Mayor of Missoula
8:15—9:30	AWWA & WEF Guest Speakers—General remarks followed by Q&A Kevin Bergschneider, AWWA Vice-President Ifetayo Venner, WEF Trustee
9:15—9:30	BREAK—Exhibitor Area (Rotunda)
9:30—9:45	MSUN/METC Water Quality Certificate Program— Barb Coffman, Director Montana Environmental Training Center
9:45—10:45	Making the Most Out of the Infrastructure Dollar: How Small Communities Benefit From Co-Funding: The Montana Story —Karen Bucklin-Sanchez, USDA Rural Development
10:45—11:30	Awards

Wednesday—May 16, 2018
Afternoon Concurrent Sessions—Preliminary Schedule

Drinking Water Sessions—Room location: tbd Moderator: Jeff Ashley, Morrison-Maierle	
1:00 —1:45	Multi-Barrier Approach For Optimal 4-Log Virus Credit Supplements Chemical Disinfection Methods— Phyllis Posey, Atlantium Technologies
1:45—2:30	The Calcium Hypochlorite Alternative— Elio Limonchi, Lonza
2:30—3:15	BREAK – Exhibitor Area (Rotunda)
3:15—4:00	Activated Carbon 101— Ben Goecke, Calgon Carbon Corporation
4:00—4:45	Chloramine Residual Optimization and Management— Tom Caulfield, UGSI Solutions, Inc.
4:45—5:30	Role of Smart Tanks in Distribution Water Quality Management— Tom Caulfield, UGSI Solutions, Inc.

Wastewater Sessions—Room location: tbd Moderator: Jeremy Perlinski, Montana DEQ	
1:00 —1:45	Size Matters; How Fine Bubble Aeration can Improve Lagoon BOD and Nutrient Effluent— Tom Daugherty, Triplepoint Environmental
1:45—2:30	West Glendive Large Diameter Horizontal Directional Drilling Beneath the Yellowstone River— Todd Kuxhaus, Great West Engineering
2:30—3:15	BREAK – Exhibitor Area (Rotunda)
3:15—4:00	True Batch SBR: A Cold Weather Nutrient Removal Solution— Manuel de los Santos, Aqua-Aerobic Systems Inc.
4:00—4:45	Meeting Strict Ammonia Limits with Lagoons— Craig Pozega, Great West Engineering
4:45—5:30	Winds of Change: Livingston WRF Upgrade: The Prequel— Scott Buecker, AE2S; Shannon Holmes, City of Livingston

Miscellaneous & More Wastewater Sessions—Room location: tbd Moderator: Amy Deitchler, Great West Engineering	
1:00 —1:45	Tips to Get Good Data from your Analytical Instruments— Myra Michaels, YSI a Xylem brand
1:45—2:30	Sewer Rehabilitation in Paradise— Craig Caprara, HDR
2:30—3:15	BREAK – Exhibitor Area (Rotunda)
3:15—4:00	Real World Considerations for Pump Design, Operation and Troubleshooting— Steve Truitt, PE, Penn Valley Pump Company
4:00—4:45	Grit Happens – You Don't Know What You Are Missing— Pat Herrick, Hydro International
4:45—5:30	Sequencing Batch Reactor to Facilitate Expansion, Growth and Development— Kolten Knatterud, Territorial Landworks, Inc.



Overview

Thursday—May 17, 2018

Morning Concurrent Sessions—Preliminary Schedule

7:00 am—8:30 am	Early Morning Break (Exhibitor Area—Room D)
7:00 am—8:30 am	Joint MSAWWA-MWEA Membership Meeting (tbd) <i>Show up to the Annual Membership Meeting and get entered for a prize drawing—You must come to the meeting to enter!</i>
7:30 am—10:00 am	Registration Desk Open (Rotunda)
10:00am—11:00 am	Operator Trivia Challenge & Best Tap Water Taste Test (Exhibitor Area—Room D) <i>Bring your team and bring your water sample to enter!</i>
8:30 am—12:30 pm	Morning Concurrent Sessions (see breakout schedule for various locations)
12:30pm—1:30 pm	Lunch & Prize Drawings (Room A-B-C) <i>Must be present to win from a great selection of Exhibitor sponsored prizes!</i>
1:30 pm—3:30 pm	Missoula Water or Wastewater Treatment Plant Tours (see map in registration packet)

Thursday—May 17, 2018

Morning Concurrent Sessions—Preliminary Schedule

Drinking Water Sessions—Room location: tbd Moderator: Jackie Kuhl, Great West Engineering	
8:30 – 9:15	The Big Payback – The Importance of Large Meter Analytics— Michele Harvey, Badger Meter
9:15 – 10:00	Billings Water Plant UV and Chemical Project— Craig Habben, Jake Ostrander & Francis Rodriguez, HDR; Louis Engels, Will Robbins & Berry Helmbrecht, City of Billings
10:00 – 11:00	BREAK – Best Tap Water Taste Test and Pub-style Operator Trivia in Exhibitor Area (Room D)
11:00 – 11:45	Optimizing Lagoon Based Treatment Systems for Improved BOD, TSS and Nutrient Removal— Tom Birkeland, Lemna Environmental Technologies
11:45 – 12:30	Can a Variable Clarifier Inlet Reduce Tertiary Treatment Requirements at a BNR Treatment Facility?— Coralynn Revis, Mario Benisch & Dan Harmon, HDR

Thursday—May 17, 2018
Morning Concurrent Sessions—Preliminary Schedule

Wastewater Treatment Sessions—Room location: tbd Moderator: Doug Whitney, KLJ Engineering	
8:30 - 9:15	AOP & Biofiltration— Brian Viall, PE, AE2S
9:15 – 10:00	Reclaimed Wastewater for Irrigation with Difficult Soils— Carrie Gardner & Ryan Pearson, Great West Engineering
10:00 – 11:00	BREAK – Best Tap Water Taste Test and Pub-style Operator Trivia in Exhibitor Area (Room D)
11:00 – 11:45	A Discussion on Advanced Lagoon Treatment Processes— Tim Canter, Environmental Dynamics International
11:45 – 12:30	Designing Lagoon-Based WWTPs: The Case of Big Timber, MT— Todd Latchaw, Nexom; Collette Anderson, Great West Engineering

Miscellaneous & More Wastewater Sessions—Room location:tbd Moderator: Michele Marsh, Montana DEQ	
8:30 - 9:15	Deer Lodge WWTP—Construction, Operation, and Performance— Rika Lashley, Morrison-Maierle
9:15 – 10:00	Electronic Applications for Funding: The New Frontier: Streamlining and Simplifying the Process for Small Communities to Gain Improved Access to Funding for Water and Waste Infrastructure— Karen Bucklin Sanchez, PE, USDA Rural Development
10:00 – 11:00	BREAK – Best Tap Water Taste Test and Pub-style Operator Trivia in Exhibitor Area (Room D)
11:00 – 11:45	Using Water Quality Modeling to Develop Site Specific Numeric Nutrient Criteria— Coralynn Revis, HDR; Tom Radcliffe & Brian Heaston, City of Bozeman
11:45 – 12:30	Enhancing Bio-P with Operations and Brewery Waste— Drue Newfield, City of Havre; Scott Buecker, AE2S