



NewsWaves



A joint publication of MSAWWA & MWEA
WINTER/SPRING 2019



“Working Together To Protect Montana’s Water Resources”
94th Meeting of the Montana Section of the American Water Works Association
75th Meeting of the Montana Water Environment Association
April 23-25, 2019 · Billings, Montana

MWEA Preconference: “First Look At Resource Recovery in Montana”

An Invitation to the Conference from your MSAWWA Chair and MWEA President

Hello Everyone! Once again it is that time to start thinking of how you are going to acquire your needed Continuing Education Credits (CEC's) and Professional Development Hours (PDH's). We and our respective board members would like to invite you to the Annual Joint Conference that is being held in Billings this year. The Preconference and the Joint Conference will run from April 23 thru the 25th at the Billings Hotel & Convention Center. The Preconference, which runs all day on the 23rd, is sponsored by the MWEA this year and is titled **“First Look at Resource Recovery in Montana”**. The Joint Conference runs all day on the 24th until after lunch on the 25th. **“Working Together to Protect Montana’s Water Resources”** will be the theme of the Joint Conference and has water and wastewater tracks. The Program Committee has selected presentations with current and relevant information covering these areas. This conference will be one of the best educational and networking opportunities in the State this year. Also earning your credits at the conference does not mean you just get to sit in on presentations all day. Lunches and a dinner will be provided with drawings, raffles and contests thrown in. Come join us in Billings this year. We will be looking forward to seeing you!

• **Wayne Lovelis, MSAWWA Chair & Herb Bartle, MWEA President**

Welcome To Billings!

Welcome to Billings and the Joint Conference of the MSAWWA and MWEA. We know this conference will be informative and full of valuable information for you as you continue to grow in your water and wastewater career. In addition to the conference, the Billings area has so much to offer for everyone. Whether you are an outdoor enthusiast, dedicated shopper, or history buff, this City has something for you. If you like to play, you're sure to enjoy Billings' playgrounds. From the Rimrocks to the free-flowing Yellowstone River, you can walk the dog, ride your bike, play numerous rounds of golf, visit one of the many local award-winning breweries and enjoy the beauty of Billings' big sky. The recreational opportunities this time of year are endless, with hiking available in the nearby Beartooth Mountains, rafting and world class fly fishing in one of several area rivers less than a one-hour drive away. If you want to see the countryside from your vehicle, take a drive to the Beartooth Scenic Byway or south of Columbus in the Stillwater River area where the scenery will never disappoint. Those interested in history can visit Pompey's Pillar along the Lewis and Clark Trail just 25 miles east of Billings, or take I-90 southeast to visit the Little Bighorn National Monument. After your day of fun, come to Billings and enjoy a first class dinner at one of the many first class restaurants. If you have a few extra days, Yellowstone National Park is just a few hours away and is home to some of the world's most incredible scenic and geological wonders. We hope you enjoy the conference and the hospitality that Billings and the area has to offer!

• **Your MSAWWA/MWEA 2019 Host City Committee**

Inside:

- **2019 Joint Conference Preliminary Schedule**
- **Joint Conference Registration links**
- **2018-2019 MSAWWA-MWEA Boards**
- **2018-2019 MSAWWA-MWEA Committee Chairs**
- **Direct links to advertisers—just click 'n go!**

NewsWaves is a joint publication of the Montana Section of the American Water Works Association and the Montana Water Environment Association. It is published twice yearly. It is available for viewing or printing on our website at: www.montanawater.org.

We welcome contributions to NewsWaves. For more information, contact:

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Mission of Montana Section AWWA

The Montana Section of American Water Works Association is dedicated to the promotion of public health and welfare in the provision of drinking water of unquestionable quality and sufficient quantity. Montana Section of AWWA will provide the forum and opportunity through which its membership can exchange information, learn of new issues and technologies, educate the public, and enhance the professionalism of workers in all areas of the water industry.



Montana Section

American Water Works Association

Mission of the Montana Water Environment Association

The Montana Water Environment Association (MWEA) is a non-profit organization dedicated to the preservation and enhancement of Montana's water environment. The Association is committed to advancing science and education, disseminating technical information, increasing public understanding and promoting sound public policy in the water quality and water resources field.



Environment Association



IT MATTERS.

To us, your project isn't a job - it's an opportunity to make a positive impact, protect future generations, and ensure the vitality of where we live and work. **It matters.**



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Join AWWA as an individual member between April 1 and June 30, 2019 and receive a free No Water No Beer t-shirt. Use promo code FREESHIRT.

Water For People Raffle
A Maximum of 500 Tickets Being Sold!

This year, the Water For People committee will be raffling 3 different items to benefit projects being undertaken to provide clean drinking water to those in need. Thank You **Great West Engineering and R.L. Winston Rod Co.** for again donating the fly rod and reel that will be the 1st place prize for the drawing. The combo is a Winston Freshwater AIR-9'0", 5 weight, 4 piece fly rod and Bauer SST 5-reel. Retail value is approximately \$1445.00. The 2nd place prize is a \$300 Quinn's Hot Springs gift certificate. 3rd place prize is a Davy Crockett Green Mountain Grill/Smoker—portable with WIFI. The retail value of this grill is \$329.00 and has been donated by **Greg's Grills** (www.gregsgrills.com). Thank you Greg's Grills! The drawing for the Water For People raffle will take place during the banquet on Wednesday evening during the Joint Conference. Tickets are \$20.00 each and can be purchased at the Joint Conference or by contacting Carrie Gardner at cgardner@greatwesteng.com or John Camden at jcamden50@bresnan.net You need not be present to win.



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~Joint Scholarship Fund Raffle~

Thank you to *Great West Engineering, Morrison Maierle and Yellowstone Waterworks* or their generous donations for this years' raffle to help fund the Donald G. Willems Joint Scholarship. 1st prize is a \$500 gift certificate to 320 Ranch outside of Bozeman; 2nd prize is a \$200 Amazon gift certificate; and 3rd prize is a \$100 Scheels gift certificate. Tickets are available for purchase at the Joint Conference or by contacting Greg Lukasik, Committee Chair, by email at glukasik@greatwesteng.com The drawings will take place at the banquet on Wednesday evening of the Joint Conference. You need not be present to win. Ticket prices are \$5/each or 5 tickets for \$20. Buy your tickets to help fund a scholarship for a deserving student!

Visiting Dignitaries from AWWA & WEF

Attendees of the 2019 Joint Conference will be introduced to **AWWA Immediate Past President Brenda Lennox** and current **WEF Board of Trustees Member Joan Hawley**.

Brenda Lennox has been an active member of AWWA since 1995. She recently retired from Tualatin Valley Water District where she worked for over 26 years, most recently as the Manager of Customer & Support Services. As the Customer & Support Services manager, Brenda was tasked with the oversight of customer service, billing, and the risk management program for the second largest water utility in Oregon.

Brenda served on the AWWA Board of Directors from 2013-2016, and as an AWWA Vice-President from 2014-2016. Involved in many of the Pacific Northwest Section's (PNWS) committees, Brenda has served as the past chair of the Program Committee, Customer Service Committee, and was a member of the Board of Trustees as well as its chair in 2010.

Brenda studied Human Resources & Management at Portland State University. She received the Fuller Award in 2014, the PNW-Lindsay Citation in 2013 and the PNWS Heart & Soul award in 2005. She lives in Warren, Oregon with her husband Jerry and shares her competitive barrel racing passion with daughter Michele.

Joan Hawley is president of Superior Engineering, LLC, in Milwaukee. She founded Superior Engineering in 2002 to provide solutions to preserve the environment with specific focus on operations and maintenance (O&M) at water resource recovery facilities and collection systems.

She has more than 30 years of experience in the water industry in municipal, consulting and construction including: utility assessment and asset management programs; O&M programs for resource recovery facilities and collection systems; collection system rehabilitation; resource optimization; and sustainable O&M and capital programs.

Joan has been a WEF member since 1986. She started as a member of the Water Environment Association of Texas and is now a Central States Water Environment Association (CSWEA) member.

Joan became involved in the WEF Collection Systems Committee (CSC) in 1990. She was on the CSC Steering Committee in 2003, was vice chair in 2005 and chair from 2008 to 2010. She served on the Committee Leadership Council as vice chair from 2009 to 2012 and chair from 2012 to 2015. She was part of the team that restructured the WEF committees for the first time in more than 30 years and has served on many task forces.

Joan is the recipient of the WEF and Central States Golden Manhole Award and the 2011 WEF Collection Systems Award. She is also a proud member of the 7's Central States Select Society of Sanitary Sludge Shovelers.

Joan is a registered professional engineer in Wisconsin, Washington and Michigan and has a Professional Operator Class I Collections License and a Grade IV Wisconsin Operator License and a Professional Operators License/ABC in Collection Systems Class 1. She received a B.S. in civil engineering in 1982 from Marquette University and a M.S. in civil engineering in 1990 from the University of Texas - Arlington.

Ms. Lennox and Ms. Hawley will offer their insight at the opening session of the conference on Wednesday morning, April 24th. The MSAWWA and MWEA Boards of Directors are honored to have these guests to contribute to this years' conference. Please help them welcome these visitors to Missoula and the great State of Montana!

Operator Training Scholarships & Free Trainings Available

“ONE AWWA” WATER OPERATOR SCHOLARSHIPS

MSAWWA has teamed with AWWA’s “The Water Equation” Campaign to offer (1) \$1000 or (2) \$500 Water Operator Scholarships. The creation of the “One AWWA” Operator Scholarship addresses the present and future workforce need for operators by providing training and educational funding. It also creates an opportunity for collaboration between the Association and Sections within The Water Equation Campaign. The scholarship award can be used for certification/licensure, two-year water related associate degree, technical school program, professional training program, books and manuals and operator related conferences. Each scholarship recipient will also receive a one-year AWWA Operator membership. An application can be downloaded from the website at:

www.montanawater.org/awards-scholarships/scholarships-available/.

MONTANA WATER ENVIRONMENT ASSOCIATION OPERATOR SCHOLARSHIPS

The Montana Water Environment Association (MWEA) has allocated funds for certified operators looking for assistance in paying for continuing education and/or training event costs. Applicants must complete a scholarship application one month ahead of the training session they plan to attend, and awards of up to \$500 can be realized by each applicant. When approved in advance, the award money can be used to pay for the actual training as well as other miscellaneous costs associated with attending. Applicants must be a Montana certified operator or operator in training. Applications are available on the website at www.montanawater.org/awards-scholarships/scholarships-available/ or can be obtained by emailing MWEA Secretary/Treasurer, Rodney Lance at rodney.lance@veolia.com

Free training again in 2019

The Montana Section AWWA in partnership with the Montana Environmental Training Center will again be offering a free small system training workshop in 2019. The 8 hour workshop will be held in Helena, MT on November 6th with CEUs available. The workshop is titled “Maintaining Compliance with the Safe Water Drinking Act”. The workshop is made available through EPA Grant funding awarded to RCAP, and a subagreement with AWWA.

The content will include updated topics from the 2018 workshop as well as new topics such as Coliform Sample Collection, DBP Treatment Strategies, Disinfection Byproducts, Disinfection Overview, Distribution System Infrastructure, Distribution Water Quality, Flushing, Main Breaks and Cross Connections, Regulatory Review, Arsenic Rule Compliance, Nitrate Rule Compliance, Radionuclides Rule Compliance, and Source Water Assessment and Protection, Controlling Lead and Copper in Drinking Water, Cyanotoxins, Premise Plumbing/Legionella, and a Learning Lab for sampling water quality. Please feel free to contact Robin Barnes, MSAWWA Exec. Secretary at info@montanawater.org for more information. More information will



SMALL SYSTEM OPERATOR TRAINING:
**Achieve & Maintain
Compliance with
the SDWA**



also be posted on the joint website at www.montanawater.org as it becomes available.

News from the MWEA Long Range Planning Committee

This year, the Long Range Planning Committee received a transfusion consisting of three members (zero members in the years prior), one of whom, Court Harris (Chair), brings his experience from his time with the Pacific Northwest Clean Water Association (PNCWA). The other two members are Nick Pericich and Rika Lashley. We started the year out with high energy and got ourselves organized to tackle updating the Strategic Plan in 2018/19 and the Long Range Plan in 2019/20. At this time, we have designed a survey that will go out to the membership this spring. The answers will help us diagnose the state of the Association and determine how best to structure the Strategic Plan to help direct us all in our efforts to further the value and usefulness of MWEA for all members. So please take five minutes or so to respond to the survey. After Board approval, we will email the revised Strategic Plan to the membership and post it on the website. If you are interested in the current Strategic Plan, please check it out on the MontanaWater.org website, >About Us >MWEA. In the same location, you will also find the Long Range Plan, which is a slightly longer read and includes descriptions of committees. One of our next tasks is to get input from committee chairs to update these descriptions. If you have any questions about either plan, please don't hesitate to email one of us (see contact info in the Joint Directory). If you are interested in helping us work on defining the direction our organization is or should be heading, please sign up for the Long Range Planning Committee on the yellow sheet at the conference or email info@montanawater.org. Hope to see you in Billings!

Samuel	Johnson	Student
Wyatt	Clark	SJWP
Mia	Foster	SJWP
Cody	Hanson	SJWP
Madison	Wiegand	SJWP
Lane	Lerum	SJWP
Madison	Thompson	Student
Daqian	Jiang	Montana Tech
Lindsay	Volpe	MT DNRC
Aaron	Losing	City of Kalispell
Josh	Viall	MT DEQ
Lynn	McCamant	City of Missoula WWTP
Josh	French	City of Bozeman WRF
Andrea	Surratt	City of Bozeman WRF
Nathan	Gordon	City of Missoula
Chris	Mehl	City of Bozeman WRF
Nathan	Antonneu	Walsh Group
Dean	Baker	City of Hardin
Max	Weiss	Plumbing and Draining Institute
		Floating Island International



Environment Association

Welcome new members!

The names at left are members who have joined MWEA since the last conference. Thank you for being a part of MWEA!

Activities Taking Place at the Conference

Pub-style Trivia Challenge—Bring your team of 4-5 to the main Exhibitor Area during the Thursday morning break to challenge friends, competitors, and coworkers in a pub style trivia wager of wits. There will be a great prize for members of the winning team!

Rules:

- Teams will be made of 4-5 members.
- Answer sheet will be provided to each team.
- No electronic devices or any type of outside sources are allowed. Teams that are reported using any outside devices will be disqualified.

Taste Test Challenge—Bozeman Water was the big winner in last year's taste test so here is your chance to steal the show and take home the honors! Once again we will be leaving it to the judges to crown an official winner of the 6th Annual *Best Tap Water Taste Test* Competition. Bring your community pride and come support your city in the competition!! The Taste Test Challenge will take place in the Exhibitor Area during the Thursday morning break. The winning system will compete at the national level at ACE19 in June.

Rules:

- Participant must not have incurred any state or federal drinking water violations (MCL, monitoring, recordkeeping, etc.) during the previous 12 months.
- Samples should be brought in glass containers with the name of the water system clearly identified and delivered to Robin Matthews-Barnes at the front desk by 5 pm on Wednesday of the conference. Please deliver at least 1/2 gallon of water total (can be in multiple containers).
- Samples will be served at room temperature to help the judges better assess each sample.
- Judging for the People's Choice award will be open to all attendees.
- The official judging panel will be a mix of local public figures and flavor-profile analyzers.
- Samples will be judged on a 10-point scale from Good (1) to Best (10).
- Scores will be tabulated and the winner will be announced immediately following the contest.

SYP Poster Competition—The Joint Student & Young Professionals Committee is sponsoring the 4th annual poster competition at this year's conference. Posters will be displayed throughout the Exhibitor Area during the conference and the winner will be announced at the banquet on Wednesday evening. The winner will receive free registration and travel to ACE19!

Game Night—Join the fun after the banquet on Wednesday evening for Game Night! Partake in different games and enter for great prizes. There will be something for everyone and you have to be there to win!

Golfing at Briarwood Golf Course—Anyone interested in playing golf at the conclusion of the conference following lunch, please email Robin at info@montanawater.org to sign up. Fees will be collected at the registration desk.

2019 JOINT CONFERENCE REGISTRATION INFORMATION

Please go to www.montanawater.org/joint-conference/2019-joint-conference

for more information and to fill out the registration form, or simply click on the link below.

You will have a choice to register and pay by check or register and pay by credit or debit card. See the website for more detail. Please contact Robin Matthews-Barnes at Info@montanawater.org with any questions, or if you would like a hard copy of the registration form mailed to you, or emailed directly to you.

[Click here to register for the Joint Conference and pay with a check](#)

[Click here to register for the Joint Conference and pay with a debit or credit card](#)

For lodging reservations—please call the Billings Hotel and Convention Center at 406-251-7151 and mention the conference to obtain the conference rate of \$93/night + tax. To register online go to www.billingshotelmt.com. Please enter special rate “STM19”.



MWEA PRECONFERENCE

“First Look At Resource Recovery in Montana”

Tuesday—April 23, 2019

7:00 am—5:00 pm	Registration desk open
8:00 am—5:00 pm	All day session including lunch
5:00 pm—6:30 pm	Ice-Breaker Sponsored by Exhibitors

Preconference Session — Room location: tbd Moderator: Doug Whitney, KLJ	
8:00 – 8:15	Preconference Welcome and Overview— Doug Whitney, PE/MWEA Education Committee Chair
8:15 – 9:00	Water Resource Recovery Facility of the Future – The Evolution from ‘Treatment’ to ‘Production’— Samuel Jeyanayagam, PhD, PE
9:00 – 9:15	BREAK
9:15 – 9:45	Diversifying Your Resource Portfolio— Scott Buecker, PE
9:45 – 10:15	Navigating the Road to Reuse: How a Pint of Beer Sparked a Reuse Revolution in Oregon and Beyond— Mark Jockers
10:15 – 10:30	BREAK
10:30 – 11:15	Missoula Wastewater Treatment Plant (WWTP) Cogeneration System— Concept, Design & Implementation— Michael Brandt, PE and Gene Connell
11:15 – 12:00	Upgrading Municipal Biogas to Pipeline Quality Renewable Natural Gas— Jodie Binger, PE
12:00 – 1:15	Lunch (hosted)
1:15 – 2:00	Nutrient Recovery from BNR Facilities— Coralynn Revis, PE and Mario Benisch, PE
2:00 – 2:45	A Municipality Gets Into the Compost Business— Gene Connell
2:45 – 3:00	BREAK
3:00 – 3:45	Resource Recovery O&M— Joan Hawley, PE
3:45 – 4:30	Fort Benton Wastewater Treatment Improvements Project— Amy Deitchler, PE
3:45 – 4:30	BREAK
3:45 – 4:30	Q&A and Panel Discussion— All Speakers

MSAWWA-MWEA 2019 JOINT CONFERENCE

“Working Together To Protect Montana’s Water Resources”

Wednesday—April 24, 2019

7:00 am—8:00 am **Early Morning Break (Exhibitor Area)**
 7:00 am—5:00 pm **Registration desk open**
 8:00 am—11:30 am **Morning General Session & Awards**
 11:30 am—1:00 pm **Buffet lunch**
 1:00 pm—5:30 pm **Afternoon Concurrent Sessions**
 5:30 pm—6:30 pm **Beer and Wine Reception (Exhibitor Area)**
 6:30 pm—8:30 pm **Banquet and Awards**

Water For People Raffle Drawing—

1st prize: Rod/reel combo-Winston Freshwater AIR-9’0”, 5 weight, 4 piece fly rod and Bauer SST 5-reel.

Retail value is approximately \$1445.00. Donated by Great West Engineering and R.L. Winston Rod Co.

2nd prize: \$300 Quinn’s Hot Springs gift certificate

3rd prize: Davy Crockett Green Mountain Grill/Smoker, Portable with WIFI. Retail value approx. \$329.00.

Donated by Greg’s Grills—www.gregsgills.com

Scholarship Fund Raffle Drawing—donated by Morrison Maierle, Great West Engineering and

Yellowstone Waterworks

1st prize: \$500 gift certificate to 320 Ranch

2nd prize: \$200 Amazon gift certificate

3rd prize: \$100 Scheels gift certificate

8:30 pm—10 pm **Game Night!**

Morning General Session

Wednesday General Session— Room location: Ballroom	
Moderator: Wayne Lovelis, MSAWWA Chair and Herb Bartle, MWEA President	
8:00 – 8:45	Welcome and Opening Session Wayne Lovelis, MSAWWA Chair and Herb Bartle, MWEA President Dave Mumford, City of Billings Public Works Director
8:45 – 9:30	AWWA & WEF Guest Speakers Brenda Lennox, AWWA Past President Joan Hawley, WEF Trustee
9:30 – 9:45	BREAK – Exhibitor Area
9:45 – 10:15	Committee Work Importance Jeremy Perlinski, MWEA Past President
10:15 – 11:00	Do We Make the Grade—ASCE’S Montana Infrastructure Report Card Matt Mudd, Great West Engineering/Craig Nowak and Mike Kynett, Morrison Maierle
11:00 – 11:45	Awards

CEC Information—Approximately 7 hours of training will be available for attendance at the preconference & 10 hours of training will be available for attendance at the conference, with a possible additional 2 hours for attendance at the Thursday afternoon facility tours. Actual number of credit hours are awaiting MT DEQ approval. Additional information & CEC forms will be included in your registration packet at the conference.

Wednesday Afternoon Concurrent Sessions

Wednesday Drinking Water Sessions—Room location: tbd Moderator: Jackie Kuhl, Montana DEQ	
1:00 – 1:45	Lessons Learned after Nearly Two Years at Montana's First Ceramic Membrane Drinking Water Plant —Dave Holland, Aqua-Aerobics
1:45 – 2:30	Protecting Montana's Drinking Water Without Disinfection Chemicals Phyllis Butler Posy, Atlantium Technologies
2:30 – 3:15	BREAK – Exhibitor Area
3:15 – 4:00	Raw Water Pumping from the Yellowstone Jill Cook, Morrison Maierle
4:00 – 4:45	City of Chinook Water Treatment Plant Jeff Ashley, Morrison Maierle
4:45 – 5:30	City of Bozeman Water Meters John Alston, City of Bozeman

Wednesday Wastewater Treatment Sessions—Room location: tbd Moderator: Jeremy Perlinski, Montana DEQ	
1:00 – 1:45	Full-Scale Optimization at the Kalispell Advanced Wastewater Treatment Plant Rickey Schultz, HDR Engineering
1:45 – 2:30	Ammonia Limits and Lagoons: How Three Communities in Montana Achieve Dalen Crouse, Nexom/Collette Anderson, Great West Engineering
2:30 – 3:15	BREAK – Exhibitor Area
3:15 – 4:00	Using Brewery Waste to Optimize Total Nitrogen Removal in a BNR Facility Coralynn Revis and William Buxton, HDR/Tom Radcliffe, City of Bozeman
4:00 – 4:45	Billings WRF Nutrient Upgrade, Expansion, and Improvements: Project Update Francis Rodrigues, HDR/Bruce Souder, City of Billings
4:45 – 5:30	Advanced Operational Strategies for Nitrogen and Phosphorus Removal Peter Boettcher, Montana DEQ

Wednesday Miscellaneous—Room location: tbd Moderator: Carrie Gardner, Great West Engineering	
1:00 – 1:45	Vorelodos - Automated Aerobic Digestion Optimized for Energy Efficiency and Nutrient Removal —Alex Krapas, Xylem - Sanitaire
1:45 – 2:30	Investing in Infrastructure Resilience Erin Ress, U.S. EPA Water Security Division
2:30 – 3:15	BREAK – Exhibitor Area
3:15 – 4:00	Circular DEQ-8 Montana Standards for Subdivision Storm Drainage Ashley Kroon, Montana DEQ
4:00 – 4:45	Saving Energy and Money through Better Wastewater Treatment Plant Mixing Michele Braas, Xylem, Inc.
4:45 – 5:30	Selecting the Right Odor Measurement Tools for Your Wastewater System Court Harris, Jacobs

MSAWWA-MWEA 2019 JOINT CONFERENCE

“Working Together To Protect Montana’s Water Resources”

Thursday—April 25, 2019

- 7:00 am—8:30 am Early Morning Break (Exhibitor Area)
- 7:30 am—8:30 am Joint MSAWWA-MWEA Membership Meeting and Election of Officers
- 7:30 am—10:00 am Registration desk open
- 8:30 am—12:30pm Morning Concurrent Sessions
- 10:00 am—11:00am Operator Trivia Challenge & Best Tap Water Taste Test (Exhibitor Area)
- 12:30 pm—1:30 pm Lunch & Prize Drawings—Must be present to win from a great selection of Exhibitor sponsored prizes!
- 1:30 pm—3:30 pm Facility Tours
- 2:30 pm Golfing at Briarwood Golf Course (email info@montanawater.org to let Robin Barnes know if you want to play)

Thursday Morning Concurrent Sessions

Thursday Drinking Water Sessions—Room location: tbd Moderator: Brent Pilon, Great West Engineering	
8:30 – 9:15	Farm Bill Conservation Programs to Protect Sources of Drinking Water Adam Carpenter, American Water Works Association
9:15 – 10:00	Big Timber Water Treatment Plant Upgrades Susan Hayes, Great West Engineering
10:00 – 11:00	BREAK – Exhibitor Area
11:00 – 11:45	How Does a Water Department Affect a Community’s Insurance Rating John Alston, City of Bozeman
11:45 – 12:30	Active Control of THM Levels in Drinking Water Joshua Kurniawan UGSI Solutions, Inc.

Thursday Wastewater Treatment Sessions—Room location: tbd Moderator: Mike Abrahamson, MT DEQ	
8:30 – 9:15	The Selection of Advanced Biological Nutrient Recovery for Phosphorus Compliance— Brian Richichi, CLEARAS Water Recovery
9:15 – 10:00	Winds of Change: The Livingston WRF Upgrade (The Sequel) Scott Buecker, AE2S/Shannon Holmes and Dan Emter, City of Livingston
10:00 – 11:00	BREAK – Exhibitor Area
11:00 – 11:45	Water Quality Improvement Mechanisms in Treatment Wetlands Systems for Domestic Wastewater – Christopher Allen, Montana State University/WGM Group
11:45 – 12:30	The Unique Benefits of Nanobubble Aeration and their Impacts on Water and Wastewater Treatment Systems— Brad Hice, Moleaer, Inc.

Thursday Miscellaneous and More—Room location: tbd Moderator: Jason Mercer, Morrison Maierle	
8:30 – 9:15	High Solids Cake Produced by Advanced High Performance Screw Press Joshua DiValentine, Schwing BioSet, Inc.
9:15 – 10:00	Take a Little More Off the Top: How you Can Optimize your Plant Using a Small-Footprint Primary Rotating Belt Filter— Dalen Crouse, Nexom
10:00 – 11:00	BREAK – Exhibitor Area
11:00 – 11:45	Impact of Enhanced Polymer Activation/Mixing on Sludge Treatment Yong Kim, UGSI Solutions, Inc.
11:45 – 12:30	Beat Ultra-Low Phosphorus Targets with Reactive Filtration: How the Town of East Helena MT Consistently Hits 0.3 mg/L— Dalen Crouse, Nexom

Don't forget about the Joint Membership Meeting!

This meeting is where members from both organizations are updated with what is happening at the board meetings. New officers are also elected at this time. The meeting takes place at 7:30 am Thursday morning—there is a drawing for a great prize just for showing up!

**Thank you to the following
sponsors of the 2019 Joint Conference:**

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AE2S
Morrison Maierle

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Coombs Hopkins
Bartlett & West

Bronze
APSCO
WGM Group
Yellowstone Waterworks
Highland West Energy
Advanced Drainage Systems
Xylem Dewatering Solutions

MWEA Stormwater Committee Activities

One of the newest committees under MWEA is the Montana Stormwater Committee. The Committee was created in 2018 to advocate for responsible stormwater management in Montana, including both water quality and flood impacts. The primary goals of the Committee are to support and inform communities, peers, and other stakeholders; facilitate communication and outreach with the public and decision-makers; and promote policies that further the position of stormwater management principles for future generations.

A diverse group of public and private stormwater professionals comprises the Committee's leadership team, including the following individuals:

Lance Lehigh, AE2S – Chair
Kyle Mehrens, City of Bozeman – Co-Chair
Bob Hayes, City of Missoula – Committee Member
Casey Lewis, City of Kalispell – Committee Member
Mace Mangold, WGM Group – Committee Member
Matt Peterson, HDR – Committee Member
Tyler Westrope, City of Billings – Committee Member

In 2018, the Committee primarily focused on refining the organizational framework and guiding principles, which are critical in ensuring the group's ability in fulfilling its long-term vision. Another highlight includes the Committee's collaboration with Montana's American Society of Civil Engineers (ASCE) in developing a stormwater-specific section of the State's Infrastructure Report Card for the first time in the publication's history.

Recognizing the broad array of stormwater issues affecting the State of Montana, the Committee began to develop a focused work plan in early 2019. The 2019 Work Plan is comprised of various tasks that will help the group further expand its membership, host webinars, engage higher education, and continue to work with MWEA to increase the presence of stormwater at the annual conference.


The Committee's leadership team is genuinely excited at the opportunity to create a network of individuals that share the same values and goals. If you are interested in joining the committee or would like to attend stormwater specific webinars, please sign up on the Yellow Conference sheet provided in the MSAWWA-MWEA Joint Conference attendee registration packet.

~Lance Lehigh, Stormwater Committee Chair



Contact
isiWEST
for more information

Bill Flanagan
Cell 406-599-0575 * Office 970-535-0571
wflanagan@isiwest.com * www.isiwest.com



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Water and Wastewater Treatment, Transfer, and Control Equipment

Joint Student & Young Professional Poster Competition

The 4th Annual Joint Poster Competition will be taking place during the conference. The posters will be presented and judged on Wednesday, the schedule is below. Please come and support the students and young professionals that have brought posters to present. The winner of the competition wins a trip to ACE19 to compete at the national level.

2019 MSAWWA-MWEA S&YP Poster Competition		
Presentation Time	Presenter	Topic
1:15	Luke Thompson	Fish Hatchery Wastewater Treatment Wetland Operation and Optimization
1:30	Hannah Koepnick	Attenuation of Selenium in Contaminated Groundwater
1:45	Derek Snyder	Cold Temperature Nitrification in Constructed Wetlands
2:00	Heather Nold	Water Storage



Welcome new members!

The names below are members who have joined MSAWWA since the last conference. Thank you for being a part of MSAWWA!

Tyler	Bradshaw	City of Columbia Falls
Austin	Egan	Great West Engineering
David	Larson	MT DEQ
Katherine	Maines	City of Bozeman
Cameron	McCarty	Student
Cindy	Murray	Flathead Co. Sewer & Water District
Lunde	Reed	Student
Alan	Shaw	
Madison	Thompson	AE2S
Lindsay	Volpe	MT DNRC

***Thank You To All Of The Exhibitors
that have committed to participate at the 2019 Joint Conference so far***

- Advanced Drainage Systems
- Advanced Pump & Equipment
- AE2S
- American
- Ambiente H2O
- APSCO, LLC.
- Aqua-Aerobics
- Bartlett & West
- BECK, Harold & Sons, Inc.
- BioLynceus
- CIP Construction Technologies, Inc.
- Coombs Hopkins
- Core & Main
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- Energy Labs
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- Goble Sampson Associates
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- HOBAS Pipe USA
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- Kennedy Valve
- McWane Ductile
- M.E.T Automation & Controls
- MT Waterworks
- Nexom
- Northwest Pipe Fittings
- Pipestone Equipment
- Preload, LLC.
- Russell Industries
- Sewerin/Leak Locators of Montana
- TC Sales & Service
- Territorial Landworks, Inc.
- The Ford Meter Box Company
- TMG Services, Inc.
- Underground Solutions, Inc.
- U.S EPA Water Security Division
- Water & Environmental Technologies
- Winn-Marion Companies
- Yellowstone Waterworks
- Xylem Dewatering Solutions

***~Your support of the Annual Joint Conference is vital
to its success and is sincerely appreciated~***

Calling All Student Writers!!

Write About Anything Water or Wastewater and Win a \$200 Scholarship

MSAWWA & MWEA produce **Newswaves** twice yearly for the memberships. Our subscribers include professionals in the water and wastewater industries including Montana cities and towns, engineering firms, and suppliers.

We certainly would like to hear from the education community. For each newsletter we encourage submission of student papers of 1000 words or less. If more than one article is submitted, they will be judged and the top pick will be printed in the newsletter. In addition, the student will receive a \$200 scholarship along with a 1 year membership to AWWA or WEF. The next **Newswaves** will be published this coming summer/fall. Articles must be received by August 15, 2019, to be considered. For more information, please contact Robin Matthews-Barnes at 406-546-5496 or by email at: info@montanawater.org

AWWA Membership Benefits

Hit the “Slopes” and Maximize your Membership

This past March I went skiing with my son who just turned 6. He’s just a beginner, so we signed him up for lessons to get the basics. I could have decided to just hang out in the lodge or skied on my own while he was under the care of an instructor. However, not wanting to miss anything and see things from his level, I joined him in his lessons. I’m sure glad I did because I got to experience his first chair lift ride with him. At this particular ski resort, when you are only 6, you are required to have an adult “chair lift buddy”. In the lift line, his excitement was evident when he said, “is this really happening?!” By the end of the day he was actually trying to race me. He’s now hooked for life.

Our AWWA membership can be similar to this skiing experience. As a member, we have “paid the lift ticket” with our membership dues. Some new members are just getting started and would like to know some of the basics about the organization before jumping in. Others might be just hanging out in the lodge and “watching other skiers”, yet they just need someone ask them to “join them on the lift”. Another group of members are more experienced in the organization. They could “ski” on their own, they are very experienced in the water industry, yet might actually make a pretty good “chair lift buddie” for someone starting out in the Association.

Members are the lifeblood of the organization, and involvement in the Section is the key to satisfaction. I know this has proven true for me. This year I stepped into the role of membership committee chair after being on the membership committee as well as exploring a few other committees for a couple of years. I’ll have to be honest though. Initially, the membership committee didn’t sound like the “cool” and “catchy” committee at first. But I have since learned how vitally important membership and each member really is. This past February, I attended the membership summit in Denver and benefited from meeting several Association staff and other inspiring membership committee members across North America. I came away feeling much more connected to the Association with a renewed passion for seeing positive membership growth, and increased engagement within our Section. The membership committee really is “cool” by helping connect water professionals and peers to build lasting relationships in the Association.

I have learned that each member is not just a number, but a difference. Yes, we are individuals; yet, collectively, we can be a part of something bigger and shape the future of our industry. Engaged members positively affect the water profession and increase the effectiveness of both the Section and Association.

A recent member value survey conducted by AWWA showed that the Montana Section has a 90% member satisfaction rate. Also, over 80% responded that the membership value they are receiving is greater than or equal to the cost of membership dues. The Montana response rate of over 11% exceeded the national average response rate of 8%. The Montana Section indicated that the three most valuable benefits of Section membership are Section conferences, continuing educating, and networking opportunities. While it is possible that those who responded to the survey are already active and involved members, this study nevertheless confirms that active members really are satisfied members. (Add Footnote Reference, 2019 Member Value Study, Key Findings Montana)

Let me remind you of just a few benefits of being a member. Whether you are an individual member, utility, service provider, student, young professional, or operator, you can maximize your membership by:

Staying informed – Access the water sector’s best resources for expert knowledge and top publications to help you do your job better. You can keep tabs on the latest happenings in water industry.

Advancing your career - gain access to educational resources, best practices, and training to keep ahead of the game.

Making a difference - Connect with local water professionals and have a direct impact on water issues affecting your community. Participate in your local Section to help create change in your community. Help impact water legislation and regulation at all levels of government for generations to come.

In summary, if you are not a member, why not become one today? Be part of the largest nonprofit, scientific, and educational association (with over 50,000 members) that is dedicated to managing and treating water, our world’s most important resource. Or, if not for any other reason than to get a “no water, no beer” T-shirt if you join between April 1st through June 30th. If you are a member, why not step out of your comfort zone, “take the lift”, and take on a new volunteer engagement, new committee, or expand your network? There are many ways to get involved. The upcoming joint conference is a great opportunity to increase your involvement and meet other motivated members. And if you are a “seasoned” member, how about helping a newer member experience “the chair lift” for the first time?

To get more involved, come talk with us at the AWWA membership booth at the joint conference or email me at mmudd@greatwesteng.com

~Matt Mudd, MSAWWA Membership Chair

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- Master Your Career Goals


STUDENT MEMBERSHIP BENEFITS

- WEF Dues \$20, plus local Member Association dues
- Free registration for WEFTEC, WEF Conferences, and WEF Webcasts
- Save 50% off of the member price on WEF technical manuals and books
- Eligibility for the \$25,000 Canham Scholarship
- Access to the University Center - Online tools including Career Resources, listings of Student Chapters and local WEF Member Associations, and WEFTEC for Students

YOUNG PROFESSIONAL MEMBERSHIP BENEFITS

- WEF Dues \$49, plus local Member Association dues
- Special WEFTEC YP registration rate
- Eligibility to join the WEF Students and Young Professionals Committee
- Special WEFTEC activities, geared to meet the needs of Young Professionals

Available to water quality professionals with five or fewer years of work experience in the industry and who are under 35. This program is available only to new member applicants and WEF Student members. Valid for three consecutive years of WEF membership.



For more information, or to join WEF, visit:
www.wef.org/JoinWEF
email: **csc@wef.org** or call: **1-800-666-0206.**

MWEA Membership Committee Update

The MWEA Membership Committee is struggling for survival with only two members. We have resumed emailing new members this year but many new members received their welcome emails months after they joined. We would love to be more timely with these emails but are limited in our availability since there are only two of us. We would very much welcome more committee members to share responsibilities and increase the member services we could provide. With only two people it becomes difficult to keep up and without additional members, the service will probably remain limited to welcome emails for new members. Ideally, we would also like to be able to contact members who are overdue with their renewals to see if they only need a reminder or have other plans. We would like to follow up with members who leave the organization to find out why. We would like to engage with members to find out how we could better serve you all. Please consider joining the MWEA Membership Committee and help keep this organization vibrant and useful to all members. Joining is easy – just sign up on the yellow sheet at the upcoming conference. Can't make it to the conference? Just email info@montanawater.org and let Robin know that you are interested in serving on the Joint Membership Committee.

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News from your Public Outreach Committee *Bringing Water into Classrooms*

Last fall the Joint Public Outreach Committee compiled various materials or links to materials that can be used in classroom settings to bring water topics to kids of various ages. These are now posted for your use and easy access on the MontanaWater.org website >Resources >Classroom Presentation Materials. Some of the materials are free, others can be purchased.

In order to help with the latter, we are currently working on establishing a modest budget for classroom materials. If the budget is granted, members who are committing to visiting schools to teach about water would be able to request reimbursement for expenses for purchasing handouts or demonstration materials. This budget item is not established yet and we will make sure to let you know if and when it will be established and what its limitations will be. And if you know of other good sources for classroom materials, please shoot us an email with a link or other access info and we'll add it to the website.

In 2018, the Joint Public Outreach Committee published three Montana Water Newsletters, which were distributed to the membership, to municipalities, and public works departments across the state. If you haven't checked them out yet, they are posted on the MontanaWater.org website. Start looking for the first 2019 Montana Water Newsletter later this month or in April. We don't have a set publication schedule but rather wait till we have something to say that might be of interest or helpful to public works folks in Montana. Always feel free to pass this newsletter on to anyone who might have an interest in drinking water, wastewater, stormwater, source water – in short: water. And as always, if you have an idea for an article, please pass it along (<mailto:info@montanawater.org>)!

Rika Lashley, Chair
Your Joint Public Outreach Committee

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Please Support Your Association's Committees

Please remember that the committees cannot survive without member participation. You can sign up to be on a committee at any time during the year, however, the Joint Conference is the ideal time to do so and there will be sign-up sheets in your registration packet. Please consider participation in at least one committee. If you have questions about the committees, please contact the chair of that committee to find out more about how you can help.

If you are currently serving on a committee and wish to continue serving, please be sure to sign up at each conference. The slate is wiped clean after each conference, and unless we have the new sign-up form, we do not know if you wish to continue serving.

Thank you to everyone who volunteers!

Below are descriptions of the Committees you can join.....

MSAWWA/MWEA Joint Committees

Cross Connection Control - Work with DEQ to implement the administrative rules for cross-connection control. Assist other groups in providing pertinent education and training.

Exhibitors - Increase exhibitors' involvement in section activities & technical education. Encourage exhibitors' strong presence at the Joint Conference.

Host City - Organize & plan for annual conference, working closely with Executive Secretary. The 2019 conference will be in Billings.

Information Management - Provide ongoing guidance for functionality of the joint website including incorporation of social media and preservation of historical documents of MSAWWA and MWEA.

Lifetime Achievement - Select the awardee(s) & present award at annual conference.

Program - Prepare & distribute "Call for Program Abstracts" to solicit interest in program presentations for annual conference. Review abstracts & select/schedule speakers & topics.

Public Outreach - Promote Water Week, Stockholm Junior Water Prize, as well as other educational activities for school age children. Assist in publicizing MSAWWA/MWEA activities.

Scholarship - Select one/two students annually whose course work will lead to employment in the water and/or wastewater fields. The Scholarship is to be used toward the cost of tuition & books & includes a one year student membership for MSAWWA or MWEA.

Student & Young Professionals - The committee is intended to include members less than 35 years in age and who have worked less than 10 years in the industry. The purpose is to encourage involvement of college students and young professionals in either organization and at the Joint Conference.

MSAWWA Committees

Awards - Assist in identifying and awarding water system safety awards. Assist in selecting AWWA Operator Meritorious award recipient.

Education - Promote educational opportunities and provide training and assistance for small systems.

Legislative - Promote continual involvement with AWWA. Be aware of, respond to, and distribute information on changing legislation on both national & state levels. Recommend legislative tracking consultant.

Membership - Increase membership by identifying & contacting potential members. Provide membership benefit materials to recruiting members. Mentor first-time conference attendees.

Water for People - Continue to actively support WFP. Continue fund raising activities at the annual conference.

MWEA Committees

Beneficial Reuse - Obtain nominations & select a system best demonstrating the management of biosolids.

Education - Enhance the professional competency & qualifications of members. Work with program committee to pick topic and solicit/select speakers for 2019 Preconference.

Government Affairs - Obtain & disseminate relevant legislative information. Participate in the legislative & regulatory development processes.

Honors & Awards - Help select awardees & give recognition to individuals & facilities for exemplary performance.

Long Range Planning - Develop & implement the long-range plan that identifies the direction of the association.

Membership - Maintain current members, attract new members, & diversify professionally.

Pretreatment - The pretreatment committee is a forum for discussion of both existing and new pretreatment programs and will provide direction to new programs being implemented. This committee will also serve as a round-table for existing communities with pretreatment programs to discuss problems or regulations.

Stockholm Junior Water Prize - Encourage student participation in water-related projects within regional & state science fairs in Montana. MWEA members participate as judges in regional & state fairs as judges to select a state winner to attend the WEF-SJWP competition.

Stormwater - MWEA has added a stormwater committee recently. The purpose of the committee is to provide support and information to communities, engineers, and operators as they deal with stormwater issues.

2018—2019 Committee Chairs

Below is a list of the members of MSAWWA and MWEA that volunteered to chair each organization's committees following last years' Joint Conference. Volunteers are always welcome, so if you wish to help your association and serve on a committee you may still sign up by contacting the chair of that committee or Robin Matthews-Barnes at Info@montanawater.org or (406) 546-5496.

Joint Committee Chairs

Cross Connection Control

- Barb Coffman (406) 265-3763
barbara.coffman@msun.edu

Exhibitors

- Cavin Noddings (406) 633-2316
cavin@ywaterworks.com

Host City

- Greg Lukasik (406) 652-5000
glukasik@greatwesteng.com

Information Management

- David Carlson (406) 268-0626
david.carlson@ae2s.com

Lifetime Achievement

- Jeremy Perlinski (406) 444-4769
jeremy.perlinski@mt.gov

Program

- Amy Deitchler (406) 465-6160
adeitchler@greatwesteng.com
- Collette Anderson (406) 495-6164
ctanderson@greatwesteng.com

Public Outreach

- Rika Lashley (406) 495-3448
rlashley@m-m.net

Scholarship

- Greg Lukasik (406) 652-5000
glukasik@greatwesteng.com

SYP Committee

- Keeley Barry (406) 268-0626
keeley.barry@ae2s.com

MWEA Committee Chairs

Beneficial Reuse

- Jeremy Perlinski (406) 444-4769
jeremy.perlinski@mt.gov

Education

- Doug Whitney (406) 861-7853
doug.whitney@kljeng.com

Government Affairs

- No Chair

Grants For Teacher

- Amy Deitchler (406) 495-6160
jperlinski@m-m.net

Honors & Awards

- Jeremy Perlinski (406) 444-4769
jeremy.perlinski@mt.gov

Long Range Planning

- Rika Lashley (406) 495-3448
rlashley@m-m.net
- Court Harris (406) 823-0705
court.harris@jacobs.com

Membership

- Rika Lashley (406) 495-3448
rlashley@m-m.net

Pretreatment

- Amy Deitchler (406) 495-6160
adeitchler@greatwesteng.com

Stockholm Jr. Water Prize

- Kristi Kline (406) 945-2043
kjfarm@mtintouch.net

MSAWWA Committee Chairs

Awards

- Collette Anderson (406) 495-6164
ctanderson@greatwesteng.com

Education

- No Chair

Legislative

- Nate Weisenburger (406) 268-0626
nate.weisenburger@ae2s.com

Membership

- Matt Mudd (406) 495-6196
mmudd@greatwesteng.com

Water For People

- Carrie Gardner (406) 495-6176
cgardner@greatwesteng.com
- John Camden (406) 459-0782
jcamden50@bresnan.net

2018—2019 MSAWWA Board of Directors

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Chair

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Executive Secretary

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(406) 761-7004
rodney.lance@veolia.com

Do You Have Something To Say?

If you have ideas, announcements, articles, or stories you would like to submit for consideration for publication in the next issue of NewsWaves, please email Robin Matthews-Barnes at info@montanawater.org. The next issue will be published late summer/early fall, so keep it in mind!