

JOINT ANNUAL MEETING

March 26 – 29, 2023
Tan-Tar-A/Margaritaville Lake Resort
Osage Beach, Missouri



Missouri Section
American Water Works Association



American Water Works
Association



Register online using the following link/QR code:

<http://jammissouri.com/>

Early Bird Deadline: February 3, 2023
Registration Deadline: March 17, 2023



Professional Engineer PDH Information

Attendees desiring PDH credit will need to be scanned into the technical session(s) by an moderator or assistant moderator. A record of session attendance will be send to the email provided at registration within a month following the end of the conference. Any corrections or questions may be addressed to Mary Odom (maryodom@awwa-mo.org).

MDNR OPERATOR CERTIFICATION

Attendees must sign the rosters daily to obtain MDNR renewal training credits. Please note that DNR has approved vouchers for Wastewater (Green).

Workshop	Course Number	DWT	DS	WW	CAFO
Wastewater Laboratory Sunday 03-26-2023	2303086	0.0	0.0	4.0	0.0

MDNR has approved the Wastewater Laboratory Workshop to use Wastewater Training Vouchers (Green) only for payment of the workshop registration fee up to \$60. Drinking Water vouchers will not be accepted for the Sunday Workshop.

MDNR rosters will be available to attendees in the classroom after the Sunday workshop.

MWEA Voluntary Laboratory Wastewater Operator Certification Renewal = 4.0

Date	Course Number	DWT	DS	WW	CAFO
Monday 03-27-23	2303087	4.0	4.0	4.0	0.0
Tuesday 03-28-23	2303088	6.5	6.5	6.5	0.0
Wednesday 03-29-23	2303089	2.5	2.5	2.5	0.0

MDNR has approved the Annual Meeting weekdays of Monday through Wednesday or Full Conference to use Wastewater Training Vouchers (Green) only for payment. MDNR will allow voucher reimbursement not to exceed \$435 per person for the meeting.

Drinking Water Training Vouchers will not be accepted for the Monday through Wednesday or Full Registration.

MDNR Rosters will be available in the registration area at the end of the day on Monday & Tuesday.

MDNR Rosters will be available Wednesday at the end of the session at the room presented.

*MWEA Voluntary Collections /Industrial/Laboratory Wastewater Operator Certification Renewal
= Monday 4.0 hrs; Tuesday = 6.5 hrs; Wednesday = 2.5 hrs*

DWT - Drinking Water Treatment, DS – Distribution, WW - Wastewater, CAFO – Confined Animal Feed Operation

We are excited to offer you the enclosed registration packet containing information for the 2023 Joint Annual Meeting of the Missouri Water Environment Association (MWEA) and the Missouri Section of the American Water Works Association (MO-AWWA). This year's meeting represents the 18th consecutive conference, or JAM, held between our organizations. We are proud to once again to provide an extensive program of technical content, networking, and events for our combined membership and beyond. We will see some changes in the venue as Margaritaville has chosen to close the Northwinds Hall where we have held the Opening Sessions and MWEA's Awards Luncheon in previous years.

We will now be having the Opening Session Monday morning in the Windgate Hall just downstairs of the Exhibit Hall. The Keynote speaker will be Rodney "Rocky" Sickmann. He is a retired U.S. Marine currently working for Folds of Honor. Mr. Sickmann was one of 65 American hostages of militants in Tehran, Iran from 1979 to 1981. Folds of Honor is a nonprofit organization that provides scholarships to spouses and children of America's fallen and disabled service men and women. He is a past director at Anheuser-Busch, Inc and an author. Other special guests will include Janet Cann, WEF Board of Trustees, and Jon Eaton, AWWA Treasurer.

Our conference just keeps getting better year over year, and we plan to have a full house of exhibitors and generous sponsors. The Exhibit Hall will be open from Sunday afternoon until Tuesday afternoon, and there are many events scheduled in the Exhibit Hall every day, such as social hours on Sunday and Monday evenings, and numerous meal functions. The Exhibit Hall also houses the Water for People booth which will have a silent auction on Monday and Tuesday benefitting people around the world by bringing water, sanitation, and hygiene services to those in need. We encourage everyone to spend time in the Exhibit Hall (bring your business cards!) and take advantage of having so many industry service providers together in a single location.

There are so many combined social activities to choose from, notably on Sunday there will be a charity golf tournament, DE&I hosted paint and sip in the afternoon, and a Sunday night social hosted by the Young Professionals and Operators. Monday night will have a charity beanbag tournament, and Tuesday night's Joint Banquet is an event to not miss! This year's Banquet entertainment will be a casino night. No cash needed to play, but if you want to play longer, any proceeds from casino night will be donated to Water for People.

We're stepping closer to a paperless conference, so we hope you'll download the conference app, once available, to have a fully customizable schedule of social events and technical presentations in your pocket. Individual MWEA and MO-AWWA functions and meals are dispersed throughout the three and a half days, so please refer to the registration information for these items.

Many dedicated volunteers have spent tremendous amounts of time and energy putting together JAM23. Our technical program will continue to be outstanding, with numerous tracks for wastewater, water, and joint topics. Special thanks to the Program Committee (John Killips, David Yates, Tony O'Malley, and Mike O'Connell). The local arrangements have been coordinated via the hard work and persistence of Bob Parks & Scott Phillips (MO-AWWA) and Bently Green (MWEA).

We are confident that it will be an exciting and informative event that all will enjoy. We look forward to seeing you at the Conference!

Amanda Johnson

MWEA President

Jenny Doyle

MO-AWWA Chair

**MISSOURI WATER ENVIRONMENT ASSOCIATION
&
MISSOURI SECTION - AMERICAN WATER WORKS ASSOCIATION**

**JOINT ANNUAL MEETING
MARCH 26-29, 2023**

PROGRAM SUMMARY

SATURDAY, MARCH 25, 2023

1:30 p.m. to 4:30 p.m. **MWEA EXECUTIVE COMMITTEE MEETING** (Island Room)

SUNDAY, MARCH 26, 2023

11:00 a.m. to 5:00 p.m. **REGISTRATION** (Convention Registration Desk)

8:30 a.m. to 3:30 p.m. **GOLF OUTING – JOINT** (The Oaks) Four Person Scramble format
Shotgun Start at 10:00 a.m. Sharp – Check in & Range Practice at 8:30
*Note: Limited space, participants should pre-register.
Proceeds to Water for People*

8:00 a.m. to 11:00 a.m. **LABORATORY ANALYST CERTIFICATION EXAM** (Parasol II)

12:00 p.m. to 4:30 p.m. **LABORATORY WORKSHOP** (Parasol II)

What's the Quality of your Quality Assurance Plan?
Stuart Venable

Creating a Sample Plan- How to Get the Most Out of Your Sampling Dollars
Katie Bruegge & Brittany Sterling

Wastewater Microbiology
Terry Joubert

1:00 p.m. to 3:00 p.m. **PAINT & SIP EVENT** (Windgate Hall)

1:00 p.m. to 4:00 p.m. **COLLECTION SYSTEM VOLUNTARY EXAM – MWEA** (Leeward 74/75/76)

4:00 p.m. to 4:45 p.m. **CONFERENCE ORIENTATION + WELCOME** (62/63/64)
All are welcome. Recommended for first time attendees. Learn how to maximize your conference experience and about MO-AWWA and MWEA.

4:30 p.m. to 7:00 p.m. **EXHIBIT AREA OPEN; ICEBREAKER RECEPTION**
Hors d'oeuvres & Cash bar (Paradise Ballroom)

8:00 p.m. to 11:00 p.m. **YOUNG PROFESSIONALS AND PLANT OPERATORS SOCIAL** (Parasol I/II)

**sessions/rooms subject to change*

MONDAY, MARCH 27, 2023

6:30 a.m. to 5:00 p.m.	REGISTRATION (Convention Registration Desk)
7:00 a.m. to 9:00 a.m.	BREAKFAST OPENING SESSION – JOINT (Windgate Hall) Welcome – Amanda Johnson (President, MWEA) Jenny Doyle (Chair, MO-AWWA) Keynote Speaker – Rocky Sickmann
9:00 a.m. to 6:30 p.m.	EXHIBIT AREA OPEN (Paradise Ballroom)
9:00 a.m. to 6:00 p.m.	SILENT AUCTION (Paradise Ballroom) <i>Proceeds to Water for People</i>
10:00 a.m. to 11:45a.m.	CONCURRENT TECHNICAL SESSIONS
Noon to 2:00 p.m.	MWEA AWARDS LUNCHEON (Windgate Hall)
Noon to 2:00 p.m.	MO-AWWA BUSINESS LUNCHEON (Compass Rose Ballroom)
2:00 p.m. to 5:05 p.m.	CONCURRENT TECHNICAL SESSIONS
5:05 p.m. to 6:30 p.m.	RECEPTION (Paradise Ballroom)
5:30 p.m. to 6:00 p.m.	STUDENT POSTER CONTENT (Paradise Ballroom Hallway)
9:30 p.m. to Midnight	BEANBAG TOURNAMENT (Parasol I/II) <i>Proceeds to Water for People</i>

TUESDAY, MARCH 28, 2023

7:00 a.m. to 5:00 p.m.	REGISTRATION (Convention Registration Desk)
7:00 a.m. to 1:30 p.m.	EXHIBIT AREA OPEN (Paradise Ballroom)
7:00 a.m. to 1:00 p.m.	SILENT AUCTION (Paradise Ballroom) <i>Proceeds to Water for People</i>
7:00 a.m. to 8:30 a.m.	MO-AWWA/MWEA YP COMMITTEE MEETING BREAKFAST (Windgate 60/61)
7:00 a.m. to 8:30 a.m.	EXHIBITORS CONTINENTAL BREAKFAST – JOINT (Paradise Ballroom)
8:00 a.m. to 11:55a.m.	CONCURRENT TECHNICAL SESSIONS
Noon to 1:00 p.m.	EXHIBITOR'S LUNCH – JOINT (Paradise Ballroom) 1:15
p.m. to 5:00 p.m.	CONCURRENT TECHNICAL SESSIONS
5:30 p.m. to 10:00 p.m.	JOINT BANQUET (Paradise Ballroom) <i>Entertainment: Casino Night</i>

WEDNESDAY, MARCH 29, 2023

7:00 a.m. to 10:00 a.m.	REGISTRATION (Convention Registration Desk)
7:00 a.m. to 8:30 a.m.	MWEA COMMITTEE CHAIR BREAKFAST (Leeward 76/77)
8:00 a.m. to 9:00 a.m.	MWEA SSSSS MEMBER BREAKFAST (Leeward 74/75) <i>MWEA 5S Members Only</i>
9:15 a.m. to Noon	CONCURRENT TECHNICAL SESSIONS
Noon to 1:30 p.m.	MO-AWWA AWARDS LUNCHEON (Parasol I)
Noon to 1:30 p.m.	MWEA BUSINESS LUNCHEON (Paradise A)

**Missouri Water Environment Association
Laboratory Practices Committee
March 26, 2023 – Laboratory Workshop Abstracts**

What's the Quality of your Quality Assurance Plan

(Quality Assurance Manual for Small Wastewater Treatment Facility Laboratory)
Presented by: Stuart Venable, City of Nixa WWTF Lead Operator/Laboratory Analyst

Small wastewater plant operators usually have additional duties outside of the laboratory. The development, implementation, and ongoing revisions of a QA/QC program for the laboratory in some cases has been overlooked do to work loads. The presentation will encourage and assist wastewater laboratory personnel to develop and implement a Quality Assurance Manual for their facility. The presentation will encompass the elements of the laboratory QA manual including staff organization and responsibilities, quality assurance objectives, sample collection, sample handling and documentation, instrument calibration, data handling, standard operating procedures instructions and quality control procedures.

Creating a Sample Plan – How to Get the Most Out of Your Sampling Dollars

Presented by Katie Bruegge & Brittany Sterling, KimHEC

Sampling is expensive, so you want to be sure you're getting all the useful information out of your data that you can. While pretreatment regulations provide some guidelines on where to sample and how often, each municipality is different, so guidelines need to be general. This presentation will show you how to create a unique sample plan that helps you decide what to sample, where to sample, and how often while also meeting pretreatment regulations. Specifically, we will discuss how to:

1. Get your existing data organized
2. Analyze your existing data for holes and note trends in your data
3. Focus on cost vs. benefit of sampling parameters
4. Communicate & coordinate with your lab
5. Develop a sample plan for the future

Wastewater Microbiology: The Basics Subject Matter

Presented by: Terry Joubert, Microbiologist, T.L. Joubert & Associates, Inc.

The presentation is centered on wastewater microbiology as it relates to the activated sludge process. Information on key organisms and their significance will be discussed. The goal of the presentation is to give the audience a basic understanding of how these organisms play a role in the effective operation of a wastewater plant (WRRF). Vital information with color picture examples will be the format of the PowerPoint presentation.

Monday, March 27, 2023

		Regulatory Update	Diversity, Equity & Inclusion	Smart Water	Potpourri	Utility Management	Wet Weather	Fats, Oils & Grease
10:00 AM	10:50 AM	MWEA Regulatory Update	Conference Orientation + Welcome	Maximizing Collection System Return on Investment Using Intelligent Algorithms in Springfield, MO	A Happy Marriage: Leveraging SSES and IDDE for Sewer and Drain System Management	SRF and Progressive DB – A Perfect Combination for the City of Perryville	Gravois Trunk Sanitary Storage Facility – A Wet-Weather Storage Solution to Eliminate Constructed Sanitary Sewer Overflow (SSO) Outfalls	FOG Management Programs: A National Survey
		<i>Lacey Hirschvogel & David Carani, MWEA Governmental Affairs Committee</i>	<i>MWEA and MO-AWWA Leadership</i>	<i>Zach Martin, City of Springfield & Andrew Faulkner, WGS Engineering</i>	<i>Zach Henderson & Samantha Weidenbenner, Woodward & Curran</i>	<i>Dave Bunch, HDR & Brent Buerck, City of Perryville</i>	<i>Curt Kimmell, Burns & McDonnell; Steven Roberts, St. Louis MSD; John Weiland, Wade Trim, Inc.</i>	<i>Katie Bruegge, KimHEC</i>
10:55 AM	11:45 AM	AWWA Regulatory Update	MWEA and Mo-AWWA DE&I Panel Discussion	If Amazon Ran a Treatment Facility: The Future of Water Treatment Automation	Inspections of Private Waste Lagoons and Embankments: Best Practices from Federal Dam and Levee Safety Programs	West Plains Wastewater, Stormwater, and Drinking Water Integrated Management Plan	Trolley Trail Basin - Expect the Unexpected	Initiating a FOG Program: From Concept to Inspections
		<i>Tim Ganz, Missouri American Water</i>	<i>Saki Urushidani, City of Springfield; Charles McAlister, GBA; & Michelle Carter, HDR</i>	<i>Rob Little, Woodard & Curran</i>	<i>Charles Krolikowski, AECOM</i>	<i>Sam Anselm, City of West Plains; David Carani, HDR</i>	<i>Colleen Connor & Timothy Schneller, GBA</i>	<i>Jacob Schwoerer & Jeff Twehus, City of Jefferson</i>

		Data Management	Utility Management	Water Distribution	Wastewater Treatment	Water Treatment	Inflow / Infiltration	Industrial
2:00 PM	2:50 PM	The Goldilocks Question: Finding the Right Asset Management Software	“What Do You Mean I Voided the Warranty on My New Equipment?”	Horizontal Collector Wells as a Raw Water Source	The DO Limbo - How Low Can You Go?	Reimagining Softening with High-Rate Pellet Reactors	Knocking on I/I's Door - Navigating Challenges for the Success of KC Water's Keep Out the Rain Private I/I Removal Program	Good Water Makes Good Ammunition
		<i>Rachel Osborn, Sue Guswa & Samantha Weidenbenner, Woodard & Curran</i>	<i>Ed Cope & Nora Estopare, St. Louis MSD</i>	<i>James MacAdam, Burns & McDonnell; Luca DeAngelis, Layne; Greg Camp, City of Festus</i>	<i>Rachel Sweezy & Eric Redmond, Black & Veatch</i>	<i>Erika Cooper & Thomas Crowley, Carollo Engineers</i>	<i>Tina Hawes, KC Water; Irene Wilson, CDM Smith; Brooke Hudlemeyer, Olsson</i>	<i>Doug Wachsnicht, Goodwin Brothers Construction</i>
3:20 PM	4:10 PM	SCADA Data – Organizing, Slicing, and Dicing	Making Decisions When You Have Apples to Oranges	Evansville's Proactive Approach to Maintaining Critical Water Mains	Losing Stream, Sinking WWTF?	Understanding Precipitative Softening: It's not Hard!	Why Hasn't Your SSES Testing Worked? Important Components For Conducting SSES Programs On Both Public And Private Property	Antidegradation for Landfill Leachate: Not Your Everyday Wastewater
		<i>Neil Amiri & Claire McLaughlin, Missouri American Water</i>	<i>Clara Haenchen, City of Jefferson</i>	<i>Wayne Lindsay, Pure Technologies</i>	<i>James McCleish & Sean Mickey, Horner & Shifrin; Brian Strickland, Strickland Engineering</i>	<i>David Green, MDNR</i>	<i>Scott Belz & Zach Matteo, AECOM</i>	<i>Connie Walden, Jacob Dean & Evan Bergmann, Great River Engineering</i>
4:15 PM	5:05 PM	Data Driven Stormwater Infrastructure Programming for Des Moines	Women in Leadership - Difficult Conversations	Social Impacts of the Prospect Ave 16-in Water Main Replacement	Macon Municipal Utilities Headworks – From Start to Finish	Softening with Beneficial Residuals: Pellet Softening for Ground- and Surface Water Treatment	Mirror, Mirror, On the Wall.....Does I/I Reduction Help at All?	How corporate ESG goals are influencing capital improvement plans and projects
		<i>Chad Johnson & Erica Wellen, CDM Smith</i>	<i>Melanie Jollett, KC Water; Julie Jenson, CMT; Theresa Calvert, ACE Pipe</i>	<i>Danielle Sandman, HNTB & Terry Thomas, KC Water</i>	<i>Jeff Barnard, Burns & McDonnell & Stephanie Wilson, City of Macon</i>	<i>Ashley Pifer, Garver</i>	<i>Andrew Kauffman & Brittnee Wilson, St. Louis MSD</i>	<i>Bob Januska, GHD</i>

Please view the abstracts and bios document at <https://bit.ly/2023JAMAAbstractsBios>

Tuesday March 28, 2023

		Alternative Delivery	Water 101	Nutrients	Pump Stations	Asset Management	Collection Systems	Wastewater Treatment
8:00 AM	8:50 AM	How to Collaborate on Final Design While Keeping a Design-Build Project On Schedule	Pressure Surge and How to Control It in Constant Speed and VFD Pumping	Concept through Commissioning Collaborative Delivery: Nutrient Removal	Increasing Centrifugal Pump's Mean Time Between Maintenance	Building an Effective Asset Management Program: City of Springfield's Journey	Wipes Out the Wipes Crisis	The Elusive Granule: How to Grow Floccs in a Continuous Flow System
		<i>Suzie Carpenter & Hannah Fodor, Black & Veatch, Blake Anderson, KC Water, Doug Wachsnicht, Goodwin Brothers</i>	<i>William Nichol, VAG USA, LLC</i>	<i>Amanda Caldwell-Jacques, Burns & McDonnell; Jeff Bergstrom & Nolan Townsend, Marshal Municipal Utilities</i>	<i>Ed Dunn, Trillium Flow Technologies</i>	<i>Allen Busick, City of Springfield</i>	<i>Chris Downey, JWC Environmental</i>	<i>Teresa Copper & Eric Redmond, Black & Veatch</i>
8:55 AM	9:45 AM	Hybrid Project Delivery Method-It's Sort of Design-Build	Ozone 101	Holistic Approach to Improved Nutrient Management – Water Research Foundation Research Study	East Bottoms Pump Station – Rehabilitation in Motion	Leveraging Energy Management Principles to Enhance Asset Management Programs...with a touch of Pump System Optimization Solutions (SOS)	Getting it Right: Effective Sewage Overflow Response and Reporting	Designing for Growth - KCMO's Todd Creek Granular Sludge WWTP
		<i>Sean Mickey, Brian Williams & Jim McCleish, Horner & Shifrin</i>	<i>Karen Dietze & Bob Hulsey, Black & Veatch</i>	<i>Dave Clark & Trent Stober, HDR</i>	<i>Jessica Borries, Burns & McDonnell & Steve Harris, Garney</i>	<i>Eric Dole, Garver</i>	<i>Jeff Pierce & Amir Kenner, KC Water</i>	<i>Jeff Keller & Paul Ward, Burns & McDonnell & Shawn Cross, KC Water</i>
10:15 AM	11:05 AM	Collaborating to Deliver Innovative Wet Weather Resiliency	Drinking Water Chemicals 101	Expanding your BNR Toolkit: Understanding the Application of RAS Fermentation	Pump Station Flow Meters – Helping bring better Operations and Maintenance of Pumping Systems	“Gearing up your Asset Management Strategy for Wastewater Capital Planning”	Taming St. Louis’ “Fox River”; Sewer Design Challenges Within the Urban Core	The Answer to Sustainable, Effective Wastewater Treatment is Under Our Feet
		<i>Nathan White & Jim Fitzpatrick, Black & Veatch</i>	<i>Roopa Matole, HDR</i>	<i>Leon Dowling, Black & Veatch</i>	<i>Jay Kniker & Jeremy McCoy, St. Louis MSD</i>	<i>Dustin Hill & Claire Samojedny, Burns & McDonnell</i>	<i>Bob Welsch & Emily Sweeney, Stantec; Jared Barr, St. Louis MSD</i>	<i>Suzan Chin-Taylor, Creative Raven & J. Rodney Dickerson, EnBiorganic</i>
11:10 AM	12:00 PM	Collaborative Delivery Roundtable	The Role of Carbon Dioxide in Lead Corrosion Control Including Treatment Methods and Equipment	Trading TP: Sell It or Keep It?	Designing a Pump Station the Size of a Football Field	Riding the Asset Management Wave from Awareness to the Kiddie Pool	A microbial source tracking study to identify fecal contamination in a karst water system	First North American Installation of an Adaptive Clarifier Inlet
		<i>Scott Phillips, Garney Construction</i>	<i>Michael Dirth, TOMCO2 Systems Company</i>	<i>Jay Hoskins, St. Louis MSD; David Carani & Lacey Hirschvogel, HDR</i>	<i>Tim Malcolm, Black & Veatch</i>	<i>Michelle Carter, HDR</i>	<i>Saki Urushidani, City of Springfield & Dr. Babur Mirza, Missouri State</i>	<i>Mario Benesch, HDR</i>

		Lead & Copper / PFAS	Wastewater 101	Stormwater	Innovation & Tech	Community Outreach	Water Treatment	Wastewater Treatment
1:15 PM	2:05 PM	Five Liter LCR Study by the City of St. Louis Water Division	Hydraulic Modeling of Sanitary Sewer 101	A Holistic Look at Flooding Improvements in St. Charles	How to accelerate decision-making in a virtual environment, Lakewood CA case study	Vacant Lots to Parks, Connecting Hodiament Tracks Greenway	Potable Reuse: Not Just for the Arid Southwest?	Operating Firsts in the Region: Renewal of the Tomahawk Creek WWTF
		<i>Jim Kopp, City of St. Louis Water Division</i>	<i>Taylor Christmas, HDR</i>	<i>Rebecca Howley, GBA</i>	<i>Luke Butler, Qatium</i>	<i>Chad Olney, Emily Forthaus & Jonathan Sherman, Jacobs</i>	<i>Mark Donovan & Ray Gosen, GHD</i>	<i>Anjana Kadava, Johnson County Wastewater, Rachel Swezy & Jim Fitzpatrick, Black & Veatch</i>
2:10 PM	3:00 PM	MO DNR Lead Service Line Inventory Spreadsheet	Understanding Wastewater Ammonia Removal	Science Based MS4 Program Implementation for the City of Kansas City	Intelligent Water Systems: Machine learning, deep learning, and case studies	Maline Tunnel: You want me to go where?	Crypto! Moving from Bin 1 to Bin 2 with a Multibarrier Approach	New Growth, New-Trients, New Plant
		<i>Austen Dudenhoeffer, DNR</i>	<i>E.C. West, Missouri DNR</i>	<i>Cody Luebbering, Geosyntec Consultants</i>	<i>Yanran Xu & Zhen Jason He, Washington University</i>	<i>John Lawson & Jay Kniker, St. Louis MSD</i>	<i>Emily Tummons, Black & Veatch</i>	<i>Christy Wilson, Horner & Shifrin; Tom Quirk, City of Mascoutah; Zach Osborn & Shawn Mickey</i>
3:15 PM	4:05 PM	How the Water Industry Can Prepare to Comply with Drinking-water Regulations on Per- and Polyfluoroalkyl Substances (PFAS)	Coagulant/Polymer 101 – Fundamentals of Sedimentation and Dewatering	Urban Flooding: Risk, Vulnerability and Resilience in a Changing Climate	Artificial Intelligence defect coding - Not for the faint of heart! Challenges & Lessons Learned	Response Excellence: Why is it and why does it matter?	Delivering One Water Solutions to Address Taste & Odor Issues for Maryville, MO	Technological advancement of biogas upgrading to renewable natural gas- from fundamentalists to case studies
		<i>Feng Xia, University of Missouri</i>	<i>Yong Kim, USGI</i>	<i>Elise Ibendahl & Megan Daubenmier, Jacobs</i>	<i>Mike Halde & Ayobamidele (Ayo) Bello, HR Green</i>	<i>Chad Feather, Daupler</i>	<i>Aaron Robison & David Carani, HDR & Greg McDanel, Maryville University</i>	<i>Yue Roa, Washington University</i>
4:10 PM	5:00 PM	A Dual PFAS Perspective - Landfill Leachate and Biosolids	Don't Forget the Microscope! Microscopy for the Wastewater Operator	Solving Urban Flooding in CSO Basins Requires Bigger Thinking	Leveraging Technology for the Real Time Monitoring, Modeling and Flood Forecasting for the Johnson County Stormwater Management Program	How AMI & MDM Has Improved Reliability for Our Utility & Our Community	Innovative Chlorine Contactors for a Large Water Treatment Plant	WWTF Upgrades Support Resiliency, Treatment Consolidation, and Growth in Troy, MO
		<i>Gary Hunter & Scott Carr, Black & Veatch</i>	<i>Randy Easley, GBMc & Associates</i>	<i>Andy Sauer & Lauren Moore, Burns & McDonnell</i>	<i>Elango Thevar, NEER & Sarah Smith, Johnson County</i>	<i>Marty Ivy, Mayfield Electric and Water Systems</i>	<i>Thomas Crowley, Carollo Engineers & Dustin Segraves, Oklahoma City</i>	<i>Brent Rood, Woodard & Curran</i>

Please view the abstracts and bios document at <https://bit.ly/2023JAMAabstractsBios>

Wednesday, March 29, 2023

9:15 AM

10:30 AM

State and Federal Drinking Water & Clean Water Regulatory Updates

10:45 AM

12:00 PM

State and Federal Drinking Water & Clean Water Regulatory Updates

Please view the abstracts and bios document at <https://bit.ly/2023JAMAAbstractsBios>



MWEA - Laboratory Practices Committee Voluntary Wastewater Analyst Certification Application for Examination

(Please Print Clearly)

Applicant _____

Exam date and location _____

Company _____

Address _____

City/Town _____ State _____ Zip Code _____

Telephone () - _____ FAX () - _____

Supervisor _____

Certification Level Sought (circle one) A B C D

Education (circle highest level) **High School** 9 10 11 12 **College** 1 2 3 4

Degree or Certificate Awarded _____

School or Institution Attended _____

Experience (include only wastewater analytical experience)

EMPLOYER	CITY	STATE
POSITION		YEARS
DUTIES		
EMPLOYER	CITY	STATE
POSITION		YEARS
DUTIES		

By signing this form, I verify that all information enclosed herein is true and indicate my agreement to abide by testing procedures and rules or decisions of the MLPC and MWEA regarding certification under this program; and hereby waive any claim that I may have against MLPC or MWEA for alleged negligence or misconduct in its operation/ administration of this program.

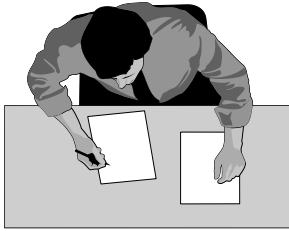
Accommodations may be provided for disabled or handicapped persons. Requests must be submitted in writing with this application.

This form must be postmarked 30 days prior to examination date, accompanied by a nonrefundable \$25.00 application fee.

() Check here if you object to your name being released as a Certificate holder.

Signature : _____ Date : _____

Make checks payable to MWEA and mail with application to:
MWEA - Laboratory Practices Committee
c/o Natalie Stahl, IMINControls, LLC
PO Box 183 Catawissa, MO 63015



VOLUNTARY COLLECTION SYSTEMS OPERATOR CERTIFICATION

EXAM DATE

The Collection Systems Committee
of the **Missouri Water Environment Association**
is proud to announce the following date and location:

Tan-Tar-A Resort

Osage Beach, MO
Room Leeward 74/75/76

Sunday, March 26th, 2023

1:00 p.m. 'til 4:00 p.m.

Applications for examination and/or questions can be secured by contacting:

Ryan Poertner
Ace Pipe Cleaning, Inc.
4410 Hunt Ave
St Louis, MO 63110
rpoertner@acepipe.com
314-368-1574

Submit Applications for examination by March 10th, 2023.

Missouri Water Environment Association
Collection Systems Committee
Voluntary Collection Systems Operator Certification

APPLICATION FOR EXAMINATION

Exam Date _____ **Location** _____ **Time** _____

Applicant Name _____
 (Please **print clearly** the name you would want on your certificate)

Address _____

City/Town _____ **State** _____ **Zip Code** _____

Telephone (_____) _____ **Applicant Email address** _____

Employer _____ **Work Email** _____

Supervisor's Name _____ **Supervisor's Telephone** (_____) _____

Certification Level Sought (circle one) **A** (min. 6 yrs.) **B** (min. 4 yrs.) **C** (min. 2 yrs.) **D** (min. 6 mos.)

Experience: (describe Collection System experience; additional experience may be provided on attached sheet, if necessary)

EMPLOYER	CITY	STATE
POSITION		YEARS
DUTIES		
EMPLOYER	CITY	STATE
POSITION		YEARS
DUTIES		

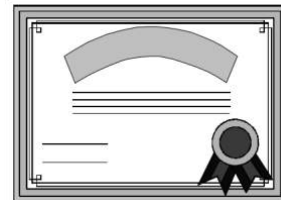
By signing this form, I verify that all information enclosed herein is true and indicate my agreement to abide by testing procedures and rules or decisions of the MWEA Collection Systems Committee regarding certification under this program, and hereby waive any claim that I may have against the Committee or MWEA for alleged negligence or misconduct in its operation/administration of this Program. I further agree to allow MWEA to release information regarding the status of any participant in this voluntary program. Accommodations may be provided for persons with disabilities or physical handicaps. Requests for such must be submitted in writing with this application.

This form to be completed and accompanied by a \$25.00 non-refundable application fee.

Signature: _____ **Date:** _____

Make checks payable to “**MWEA**” and mail with application to the MWEA

Collection Systems Committee Registrar:



Ryan Poertner
 Ace Pipe Cleaning, Inc.
 4410 Hunt Ave
 St Louis, MO 63110
 rpoertner@acepipe.com
 314-368-1574

Missouri Water Environment Association
 Voluntary Collection Systems Operator Certification
APPLICATION FOR RENEWAL

Applicant Name _____

Current Certificate Number: _____

Email Address _____

Address _____

City/Town _____ **State** _____ **Zip** _____

Telephone (____) _____

Employer _____

Supervisor's Name: _____ **Supervisor's Telephone:** (____) _____

Training completed to be considered as credit toward renewal certification (a minimum of 20 hours of training related to collection systems is required during every three year renewal period):

Date of Training	Subject	Contact Hours	Name of Trainer (or D.N.R. Course #)	Trainers Phone or Address (or Sponsoring Organization)

Attach documentation pertaining to above training (use additional sheets as necessary).

By signing this form, I verify that all information enclosed herein is true and indicate my agreement to abide by existing procedures and rules or decisions of the MWEA Collection Systems Committee regarding certification & renewal under this program, and hereby waive any claim that I may have against the Committee or MWEA for alleged negligence or misconduct in its operation/administration of this Program. I further agree to allow MWEA to release relevant information regarding the certification status of any participant in this voluntary program.

This form to be completed and accompanied by a \$25.00 renewal fee and submitted within 60 days of the currently held certificate expiration date. Make checks payable to MWEA (do not list any name on the check)

Signature: _____ **Date:** _____

Mail the application to:

*Ryan Poertner
 Ace Pipe Cleaning, Inc.
 4410 Hunt Ave
 St Louis, MO 63110
 rpoertner@acepipe.com
 314-368-1574ail.com*

2023 WEF Visiting Officer

Janet Cann

WEF Trustee



Janet Hurley Cann, P.E., is a member of the 2022-23 Board of Trustees for the Water Environment Federation (WEF), an international organization of water quality professionals headquartered in Alexandria, Va.

Janet brings extensive experience to her role as the Asset Engineering Manager for the Collection and Distribution Department of Spartanburg Water, a combined commission of public works and special purpose district providing water and wastewater services in Upstate South Carolina. She began her career in the environmental field more than 35 years ago as a regulator at the South Carolina Department of Health and Environmental Control (SCDHEC), before beginning her employment with the Spartanburg Sanitary Sewer District in the late 1980's.

After retiring from Spartanburg Water in 2015, Janet continued to work as a consultant for an Upstate engineering firm, until lured back to public service, returning to Spartanburg Water as Asset Engineering Manager for the collection and distribution systems rehabilitation program. Through the course of her career, she has managed a variety of projects, including collection system expansion, pump station and treatment plant construction and upgrades, the development of the District's first collection hydraulic model, and now the rehabilitation of both the distribution and collection systems.

Janet is in fact a second generation WEF member – her father, Noel Hurley, represented the Water Environment Association of South Carolina (WEASC) as Director, a forerunner to the Delegate, in the late 1980s. She has been a member of the WEASC since 1985 and WEF since 1987.

Janet has held many leadership roles, including service on numerous WEASC committees such as the Association Secretary from 1987 to 2003, as President from 2009-2010, and WEF Delegate from 2010-2013. She has participated on several WEF Committees and served WEF as Speaker of the House of Delegates from 2013-2014, Treatment Community of Practice Director from 2015-2017, and Vice Chair and Chair of the Committee Leadership Council from 2017-2021.

Janet is a native of South Carolina, currently residing in Spartanburg, SC, with her husband and two children. She received her Bachelor's Degree in Civil Engineering from Clemson University and Master's Degree in Civil Engineering from the University of South Carolina. She is a licensed engineer and biological wastewater operator trainee in the state of South Carolina.

2023 MO-AWWA Visiting Officer

Jon Eaton
AWWA Board Treasurer



Jon Eaton is the Superintendent of Utilities for the City of Eagan, the ninth largest city in Minnesota. He manages the water, sanitary, and storm systems, and cellular leasing.

Prior to Eagan, Jon was the Water Quality Supervisor for the City of Bloomington, Minnesota and managed water production and treatment, wholesale water purchases, distribution water quality, and the William Lloyd / Tri-City Analytical Laboratory.

Jon graduated with a Bachelor of Chemistry from the Institute of Technology at the University of Minnesota Twin Cities Campus.

Jon has been a member of AWWA for over 25 years, is an AWWA Utility Member, Research Foundation subscriber, and a Water Equation and Water For People supporter. He has significant experience at the Association and Section levels, and was honored with AWWA's George Warren Fuller Award in 2008 and the Minnesota Section's Leonard N. Thompson Award for Distinguished Service in 2013.

Jon has traveled to Africa and Central America to help villages address water supply and distribution issues, manage and participate in public infrastructure projects, and assist with education and medical services.

Jon lives near Minneapolis, Minnesota with his wife Robin, a registered nurse, and has two daughters, Aimee, a licensed school counselor and Rachel, a research analyst/data scientist.

2023 JAM Keynote Speaker

Rodney "Rocky" Sickmann



Rodney "Rocky" Sickmann graduated from Washington High School in 1976 and immediately entered the U.S. Marine Corps. In 1979, just 28 days into his tour of duty at American Embassy in Tehran, Iran, Sickmann became a player in one of the most terrifying events in U.S. history.

On November 4, 1979, after months of turmoil marked by the return of the exiled Ayatollah Ruhollah Khomeini, the American Embassy in Tehran was overrun by militants and its employees taken captive. Sergeant Rocky Sickmann, then just 22, was one of 65 Americans taken hostage. Sickmann remained a hostage for 444 days before being released on Jan. 20, 1981 following 14 months of diplomacy by President Jimmy Carter.

Three months later, Sickmann was Honorably Discharged after six years in the U.S. Marine Corps and received several accolades during his service including the Prisoner of War Medal, The Defense Meritorious Service Medal, Award of Valor, and Good Conduct Medal. Following the military, he began working in advertising for KMOX radio in St. Louis, Mo. and then entered the private sector for Anheuser-Busch InBev. He spent the next 34 years with the company, most recently as the U.S. National Director for Military and Industry Affairs, until his retirement in July 2016. Sickmann's personal diary, "Iranian Hostage: A Personal Diary of 444 Days in Captivity" is also the only known diary to have been smuggled out of Iran and published. The diary is no longer in publication.

As the U.S. National Director for Military and Industry Affairs at Anheuser-Busch InBev, Sickmann oversaw all Military Special Events, Military and Industry Trade Media Publications, and National Industry Trade Shows. Throughout his career at Anheuser-Busch, Sickmann also played a key role in increasing Anheuser-Busch's market penetration among the Military by training wholesalers, coordinating marketing and publicity, executing national sales promotions, and planning special military events. Sickmann helped coordinate the "Here's to the Heroes Tour" which salutes the men and women of the armed forces, allowing Americans to show their support for the troops via recorded messages filmed on location at community events, celebrations, and festivals nationwide and shared with U.S. troops serving in Iraq and Afghanistan.

Personally and professionally, Sickmann has been fortunate to share his story on many different platforms including ABC News, ESPN, Fox & Friends, Fox News, Los Angeles Times, MSNBC, NFL Time Line Series, The New York Times, to the cast of the Oscar award-winning film *Argo* (starring Ben Affleck), national and local Veteran and Military organizations, and educational institutions across the country.

In August 2016, Sickmann's military and professional experience, coupled with his passion for our armed forces, led him to pursue an opportunity with his favorite non-profit organization: Folds of Honor. In this new role, Sickmann helps advance the Folds mission: To stand in the financial gap of the more than one million dependents adversely affected by war, providing educational scholarships to the children and spouses of those killed or disabled while serving our nation.

Sickmann and his wife (40 Years), Jill, have three children, Hannah (Hannah Wehrle, Granddaughter Lela, Grandson Rhett and husband Matt Wehrle), Chelsea (Chelsea Frese, Grandson Woodson, Granddaughter Rooney and husband Kalen Frese) and Spencer.

MWEA & MO-AWWA
Water For People



Sponsorship & Participation Opportunities at
2023 Joint Annual Meeting

The Water For People Committees of MWEA and MO-AWWA will continue their fundraising efforts at the 2023 Joint Annual Meeting at Margaritaville. All funds raised from our various activities, including the Golf Tournament, Silent and Oral Auctions, and various raffles will be donated to Water For People.

Water For People is an international humanitarian organization that supports the development of locally sustainable drinking water resources, sanitation facilities, and health and hygiene education programs in underdeveloped and economically-challenged countries. Water For People uses water-related programs as catalysts for change in communities that lack access to drinking water and adequate sanitation. By working as a partner, benefited communities directly improve their own lives so that they can contribute to, and make a difference in, the world. More information on their work can be found at www.waterforpeople.org.

For the 19th consecutive year, Water For People has received Charity Navigator's Four Star rating – the highest possible score. This longevity places Water For People in the top 1% of all charities.

Consulting engineering firms, equipment manufacturers, manufacturer's representatives, construction contractors, individuals and others who have so generously supported the activities of both MWEA and MO-AWWA in the past can help once again by sponsoring one or more of the fund-raising activities listed below, which will be conducted during the Joint Annual Meeting:

Description of Event

Sponsorship Opportunity

Sunday – Golf Tournament Hole Sponsor

\$250 Hole Sponsorship

Monday & Tuesday– Silent Auction (Exhibit Area)

Donate \$50 to \$250 Auction Items

Tuesday – Oral Auction (Banquet)

High-value Auction Item

Hole sponsors will have their logo displayed on a banner that will be at the Water For People booth. Oral Auction Items will be prominently displayed with company logo.

The opportunities listed above to sponsor or contribute towards individual, dedicated events are available (on a first-come, first-served basis) by contacting the Water For People fund-raising activity coordinators, Jeff Gratzer, MWEA Committee Chair at (314) 425-8329 or jeffrey.gratzer@hdrinc.com or Mel Peterein, MO-AWWA Committee Chair at (636) 536-5833 or PetereinMS@BV.com. For golf tournament sponsorship opportunities, contact Diane Grossenheider as indicated on the golf registration form.

Even if you can't sponsor one of the above-described activities, you are encouraged to participate. Single-page flyers providing the details of all conference activities (i.e., golf tournament, auctions) are enclosed in this Annual Meeting registration booklet; including the information on how to register for and participate in each event.

The Water For People Committees of MO-AWWA and MWEA invite everyone attending this year's Joint Annual Meeting to contribute to this VERY worthy cause – not to mention participate in the great fun to be had at these activities! See you at Margaritaville.



Silent Auctions at 2023 Joint Annual Meeting

MWEA and MO-AWWA's Water For People Committees conduct several fundraising events at the Annual Meeting. Once again, all of the funds we raise will go to Water For People.

Throughout all of our fund-raising efforts and events, the consultants, equipment manufacturers, and equipment representatives (many of which also pay to exhibit at these meetings) have been very generous in assisting us by providing unique, interesting, and desirable items that are offered for auction, as well as monetary contributions to other fund-raising activities.

If you are planning to exhibit at this year's Joint MWEA / MO-AWWA Annual Meeting in March at Margaritaville, we would greatly appreciate the donation of an item for the silent auctions. Please call or e-mail a description of your donated auction item(s) to Jeff Gratzer (contact information below) prior to March 17, 2023, so that Bid Sheets can be prepared. Just bring your item to the Water For People booth on Sunday afternoon during set-up or in the evening at the opening reception. As always, thank you for your support of Water For People!

Water For People assists people in developing countries to improve quality of life by supporting the development of locally sustainable drinking water resources, sanitation facilities and hygiene education programs. Around the world, 884 million people do not have access to safe drinking water and 2.5 billion are without adequate sanitation facilities. Every day, nearly 6,000 people who share our planet die from water-related illnesses, and the vast majority are children. Water for People's vision is a world where all people have access to safe drinking water and sanitation, a world where no one suffers or dies from a water- or sanitation-related disease. More information on their work can be found at www.waterforpeople.org

If anyone has any questions about **Water For People**, would like to learn more about how they can help in this cause, or has any other creative fund-raising ideas, please contact **Jeff Gratzer, MWEA Committee Chair at (314) 425-8329 or jeffrey.gratzer@hdrinc.com** or **Mel Peterein, MO-AWWA Committee Chair at (636) 536-5833 or PetereinMS@BV.com.**

Hope to see you at Margaritaville.



Missouri Water Environment Association & Missouri Section AWWA

2023 Four Player Scramble Golf Tournament

Benefitting “Water for People”

Sunday, March 26th, 2023

8:30 am Check-In

10:00 am Shotgun Start

The Oaks at Tan-Tar-A
494 Tan Tar A Drive
Osage Beach, MO 65065



Event Details

Online registration will be available through the conference registration website.

- Those who are registering for golf using a credit card should register on-line. Please note that we accept Master Card, Visa, and American Express during pre-registration only. On-site registration requires a check (payable to MWEA/MO AWWA).
- If you are paying by check: make check payable to MWEA/MO AWWA and mail with the completed registration form to Diane Grossenheider at the address on the form.
 - Golf entries need to be sent in by March 17, 2023.
- \$100/person Entry Fee. Includes: greens fees, cart, range balls, and hole competitions.
- \$250 Hole Sponsorship. Includes: sign on designated golf course hole and recognition on Water for People Banner.
- Lunch will be provided, and additional beverages will be available for purchase on the course.
- Withdrawal from the tournament or failure to appear will result in forfeiture of the entry fee. In the event that the tournament must be canceled due to inclement weather (at the discretion of the golf course and golf committee) the entry fee WILL NOT be refunded to all paid entrants.

***For questions, contact Diane Grossenheider at
(636)536-5878 or GrossenheiderD@bv.com***

**2023 JOINT MWEA/AWWA ANNUAL CONFERENCE
- FOUR PLAYER SCRAMBLE GOLF TOURNAMENT -**

Benefiting “Water For People”

SUNDAY MARCH 26th, 2023

**8:30 AM Check-In and Range Practice, 10:00 am Shotgun Start
“The Oaks” at Tan-Tar-A
Osage Beach, MO**

GOLFER’S ENTRY FORM (\$100 per player)

Name _____ Date _____

Golfer's Address

Phone _____ Fax _____ E-Mail _____

Team Name with Preferred Playing Partners (if any):

1. _____

2. _____

3. _____

4. _____

- ❖ We are no longer accepting credit card payments via this form, as we **have concerns in not being able to provide adequate security for credit card information sent through the mail.**
- ❖ You can register on-line through the conference registration website.
- ❖ If you are paying with a check, make payable to “MWEA/MO AWWA” and send with this form to:

**Diane Grossenheider
Black & Veatch
12400 Olive Blvd, Suite 507
Creve Coeur, MO 63141
GrossenheiderD@bv.com**

**2023 JOINT MWEA/AWWA ANNUAL CONFERENCE
- FOUR-PLAYER SCRAMBLE GOLF TOURNAMENT -**

Benefiting “Water For People”

SUNDAY MARCH 26th, 2023

**8:30 AM Check-In and Range Practice, 10:00 am Shotgun Start
“The Oaks” at Tan-Tar-A
Osage Beach, MO**

SPONSORSHIP FORM

I (we) are interested in being a Sponsor for the golf tournament. The following sponsorship is available for the tournament:

1. Hole Sponsor - \$250

Name of Sponsoring Firm or Individual _____

Address _____

Contact Person Name _____

Phone _____ Fax _____ Email: _____

Sponsors will be recognized with signs at the golf course as well as at their designated hole on the golf course during tournament play. Hole sponsors will be recognized with signs at their designated hole on the golf course. Sponsors will be recognized with a sign in the Exhibit Hall during the conference, on a banner at the Water for People booth, at the award ceremony being held during the Meet & Greet, awarding the prize for the sponsored event and acknowledgement in each organizations post-conference newsletter. Deadline for recognition on Exhibit Hall signage is **March 3, 2023**. Your donations are **tax deductible** as allowed by law and all sponsors will be provided receipts to that effect after the tournament. *ALL PROCEEDS COLLECTED FROM HOLE SPONSORSHIPS WILL BENEFIT “WATER FOR PEOPLE”.*


- ❖ We are no longer accepting credit card payments via this form, as we **have concerns in not being able to provide adequate security for credit card information sent through the mail.**
- ❖ You can register on-line through the conference registration website.
- ❖ If you are paying with a check, make payable to “MWEA/MO AWWA” and send with this form to:

**Diane Grossenheider
Black & Veatch
12400 Olive Blvd, Suite 507
Creve Coeur, MO 63141
GrossenheiderD@bv.com**

AWWA/MWEA YOUNG PROFESSIONALS & PLANT OPERATORS SOCIAL & GAME NIGHT!



Join the Young Professionals and Plant Operators after dinner for an excellent networking event while playing yard games and enjoying drinks and snacks!



SUNDAY NIGHT
MARCH 26

Parasol I/II
8 - 11 PM



WHICH REGION HAS THE BEST BEER?

BEER TASTING COMPETITION

Attendees can purchase a Beer Passport at the social for \$10. Participants will receive tasting pours of local beers from each of three regions: Kansas City, St. Louis, and Springfield.

Participants will vote on their favorite beer and the winner will be announced around 10 PM.

Tastings will consist of small pours of two beers from each region, for a total of six beer tasting pours.

All proceeds go to Water for People. Two participants will be awarded a raffle prize, which will be called at 10 PM. Participants must be present to win.

NETWORKING SCAVENGER HUNT

Young Professionals are encouraged to participate in the Networking Scavenger Hunt which begins at the social

Prizes will be handed out to winners!



Young Professional Networking Breakfast

**New to the Joint
Annual Conference or
wanting to meet other
Young Professionals in
your field?**

**Join us for the Young
Professional
Networking Breakfast!**



When: Tuesday, March 28th from 7:00 AM-8:30 AM

Location: Windgate 60/61

This breakfast is free of charge and open to all Young Professionals.
We look forward to meeting you!



MO-AWWA/MWEA BUSINESS CARD SCAVENGER HUNT

Hosted by MO-AWWA/MWEA Young Professional Committees

Open to ALL professionals

The name of the game is: **NETWORKING!**

Your mission is to find vendors, professionals, board members, and other young professionals to connect, exchange business cards and share your information. The more cards collected that meet the scavenger hunt categories listed below, the more raffle entries you receive for a chance to win *Amaz-ing* prizes (Amazon gift cards - punny, right?)!

.....

Scavenger Hunt Rules

The categories below provide you several opportunities to meet and mingle with professionals from across the industry and location at the conference. For each person you speak with, exchange business cards and write the category fulfilled on the back of the card. Be sure to submit your cards to Young Professional leadership at the table near conference registration before **Tuesday, March 28, 2023 at 12pm** to be eligible to win prizes!

Professional Categories
Someone giving a presentation
An operator from a public/private municipality
A young professional you hadn't met before the conference

AWWA/WEA Specific Categories
A current member of the governing board of either organization
Member of a technical committee
One of the award winners

Nine Unique Vendors/Exhibitors

1.	4.	7.
2.	5.	8.
3.	6.	9.

PARTICIPANT NAME:	PARTICIPANT EMAIL:
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Collect five additional cards from any of these categories to be entered into the GRAND PRIZE drawing!



Missouri Section
American Water Works Association

Now for the fun stuff...PRIZES!

The raffle pools are separated into three tiers to maximize your opportunity to win prizes. Each tier you are entered into depends on the quantity of business cards you've collected throughout the conference that meet the requirements. For every five business cards you collect, you are entered into a tier. Qualifying for a certain tier automatically qualifies you for all lower tiers (e.g. qualifying for Tier 3 automatically qualifies you for Tier 1, 2 and 3).

.....

Tier 1

\$25 Amazon Gift Card
5 Business Cards

Tier 2

\$75 Amazon Gift Card
10 Business Cards



Tier 3 Grand Prize

\$200 Amazon Gift Card

Submittal of at least one business card matching every description
(20 total business cards).

Drawing and Submittal Information

Business cards must be presented to Young Professional leadership between
12 pm and 1 pm near registration on Tuesday, March 28.

Young Professional leadership will tally your business cards and return them to you. The winners of the raffle will be announced via email in the week following the conference.

Can't be present for the drawing? No worries, participants do not have to be present to win - we will contact you for the necessary information and get your prize to you.



FRESH IDEAS STUDENT POSTER COMPETITION

Date: Monday, March 27th

Time: 5:30-6:00 PM

Location: Outside the EXPO Hall

Join us for the 3rd annual Fresh Ideas Student Poster Competition! The Fresh Ideas Student Poster Competition will feature presentations on cutting-edge research from undergraduate and graduate students attending nearby universities. Students will present their research related to drinking water quality and treatment, wastewater treatment, stormwater management, water resources, and other environmental engineering topics.

The winning poster presenter will represent the Missouri Section of AWWA at AWWA's Annual Conference & Exposition (ACE23) in Toronto, Canada to compete against winners from other states. 2nd and 3rd place posters will receive cash prizes.

This is a great opportunity to network with young engineers entering the workforce and learn about industry trends and research programs at local universities. Student presenters are typically pursuing degrees in civil, chemical or environmental engineering.

If you are interested in becoming a judge, please contact Karen Marie Dietze (DietzeK@bv.com) by Friday, March 10th.



Missouri Section
American Water Works Association

MWEA & MO-AWWA JAM

PAINT & SIP EVENT

MARGARITAVILLE RESORT
WINDGATE HALL

2023

SUNDAY | 26 | MARCH

1:00 PM to 3:00 PM

PAINTING | BEVERAGES | SNACKS | MUSIC

**A FUN AFTERNOON OF SOCIALIZING AND
GUIDED PAINTING LED BY CREATIVE ARTIST
CHASITY MITCHELL. NO EXPERIENCE NEEDED!**

**Please sign-up in advance during
conference registration. \$30 per person
registration fee includes supplies.**



The Water Equation
Keep Water Knowledge Flowing



Missouri Section
American Water Works Association

The One AWWA Operator Scholarship

The One AWWA Operator Scholarship is funded through the support of AWWA's The Water Equation Campaign and the Missouri Section AWWA.

PURPOSE of AWARD

AWWA's The Water Equation Campaign and the Missouri Section AWWA, will award One AWWA Operator Scholarships (1 or more) to cover registration costs to attend the Joint Annual Meeting for Water Operator training and education. The Joint Annual Meeting will be held March 26 – 29, 2023 at the Margaritaville Lake Resort (formerly Tan-Tar-A) in Osage Beach, Missouri.

Scholarship award can be used for a single day registration or for a full registration. Single day registration includes conference meals for that day with value ranging from \$185 to \$245 depending on the day of attendance. Full registration includes all meals with a value of \$300. Applicants wanting to attend 2 days of the conference should apply for a full registration.

Each scholarship recipient will receive a one-year AWWA Operator membership (\$79 value).

ELIGIBILITY/GUIDELINES

- Applicant must be a current water operator or seeking to enter the water operator profession.
- Applicant must be pursuing an Operator's License or Certification, two or four-year degree related to the water operator profession, or professional development.
- Disbursement of the funds will be made directly by the Missouri Section to the Joint Annual Meeting Registration Committee.
- The applicant is responsible for all travel and lodging costs associated with attending the Joint Annual Meeting.
- Applicant must reside or work within the State of Missouri.
- Acceptance of scholarship constitutes permission to use recipient's name and scholarship story for purpose of promotion.

APPLICATION PROCESS: DEADLINE/SELECTION/PRESENTATION

Applications will be received by the Missouri Section until February 28, 2023. Scholarship awards will be announced by March 15, 2023. Selections will be made by the Missouri Section Scholarship Committee.

Complete the Scholarship Application and provide an essay as noted on the application form. Also, complete and include the Joint Meeting Registration Form (found on the conference website) indicating if you are applying for a single day or full registration. Please also indicate any meal functions you plan to attend.

All documents should be emailed to Mike O'Connell, Missouri Section Scholarship Committee Chair, email address moconnell@burnsmcd.com. Please note "One AWWA Operator Scholarship Application" in the subject line of your email.

For questions contact Mike O'Connell at 816-822-3218 during regular business hours.



The Water Equation
Keep Water Knowledge Flowing



Missouri Section
American Water Works Association

The One AWWA Operator Scholarship APPLICATION

APPLICANT INFORMATION

Name: _____

Address: _____

Phone: _____ Email: _____

EMPLOYMENT INFORMATION

Employer: _____

Address: _____

Phone: _____ Current Position: _____

Number of Years at Job: _____ Operator Level: _____

Member of AWWA: Yes or No (Circle one) AWWA Member No. _____

Veteran: Yes or No (Circle One)

HOW WILL YOU USE THE SCHOLARSHIP FUNDS (Check One)

Joint Annual Meeting Single-Day Registration: _____ Joint Annual Meeting Full Registration: _____

NAMES OF TWO INDUSTRY OR PROFESSIONAL REFERENCES

Name/Title: _____ Phone: _____

Name/Title: _____ Phone: _____

ATTACH THE FOLLOWING TO THIS APPLICATION FORM:

- One-page essay of career objectives, work history, current job duties and how this scholarship will enhance your ability for professional development and bring value to the water industry.

CERTIFICATION

I certify that the information included in this application is true and complete to the best of my knowledge and I grant permission to AWWA's The Water Equation Campaign and sponsoring Section to release my name and award for promotional use.

Signature: _____ Date: _____

MARGARITAVILLE

Lake Resort

LAKE OF THE OZARKS

MWEA / AWWA 2023 Joint Conference

We are excited to be hosting MWEA/AWWA 2023 Joint Annual Conference and look forward to a successful and memorable event. To receive MWEA/MO-AWWA discounted room rates, reservations must be made by Friday, February 24, 2023.

Per night room rates: \$112.00 guest room

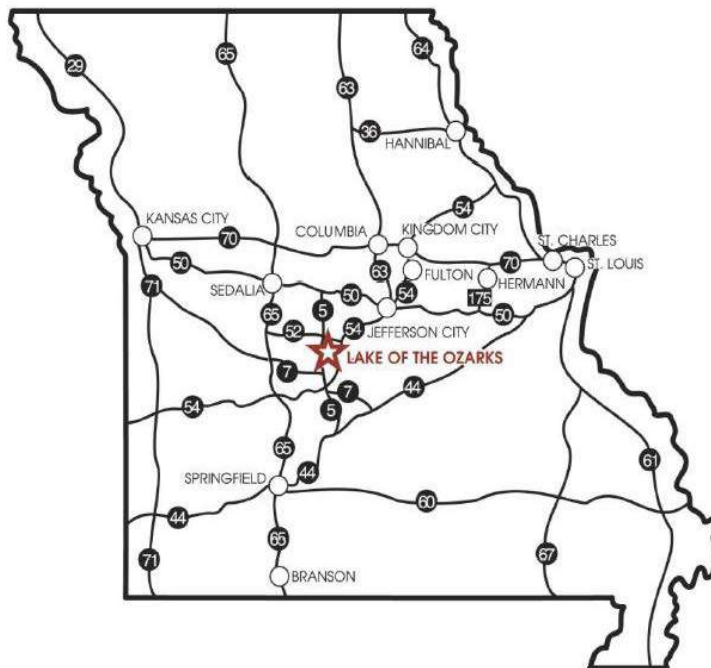
To make reservations:

Call Margaritaville Lake Resort at 1-800-826-8272 and mention MWEA

-- OR --

- Go online at <https://www.margaritavilleresortlakeoftheozarks.com>, click on "Groups & Conferences Click Here" box, enter group code: **WATR**

Hotel's customary check-in time is 4:00pm and check-out time is at 11:00am. You may request an early check-in or late check-out at the Front Desk. Margaritaville Lake Resort will make every effort to accommodate your request.



St. Louis: Interstate 70 West to Kingdom City, exit right, turn left onto Highway 54 West. Continue on Highway 54 West through Jefferson City and Osage Beach, exiting right at the Highway KK exit. Turn right on Highway KK, remain on Highway KK, merging with traffic coming off the round-a-bout. Margaritaville Lake Resort will be 2 miles on the left. Approximate miles: 180-200

Kansas City: Interstate 70 East to Highway 65 South to Highway 54 East (at Preston) to Osage Beach. Exit right at the Highway KK exit and turn left. Remain on Highway KK, merging with traffic coming off the round-a-bout. Margaritaville Lake Resort will be 2 miles on the left. Approximate miles: 190-200

Springfield: Interstate 44 East to Lebanon, Highway 5 North to Camdenton, Highway 54 East to Osage Beach. Exit right at Highway KK Osage Beach, turn left. Remain on Highway KK, merging with traffic coming off the round-a-bout. Margaritaville Lake Resort will be 2 miles on the left. Approximate miles: 90

Columbia: Highway 63 South to Jefferson City, Highway 54 West through Osage Beach. At Highway KK exit right, turn right. Remain on Highway KK, merging with traffic coming off the round-a-bout. Margaritaville Lake Resort will be 2 miles on the left. Approximate miles: 90

2023 MWEA/MO-AWWA JOINT ANNUAL MEETING REGISTRATION FORM

4-Step Process:

1. **Enter contact information** (Fill out a separate form for each guest/spouse. All guests must be registered. No guests will be admitted to conference areas without a badge.)
2. **Select registration type**
3. **Select conference activities and meals**
4. **Pay conference fees**

STEP 1 (Please print legibly)

NAME: _____
Last
First
Middle

COMPANY: _____

ADDRESS: _____
Street
City
State
Zip Code

EMAIL ADDRESS: _____ PHONE #: _____

EMERGENCY CONTACT INFORMATION (NAME/PHONE): _____

MEMBER NUMBER WEF _____ AWWA _____ MWWC _____

OPERATOR CERTIFICATE/ENGINEER LICENSE NUMBER _____

ORGANIZATION ROLE (CIRCLE) EXECUTIVE / MANAGEMENT / ENGINEERING / SCIENTIFIC / OPERATIONS/ SALES / ACADEMIC

STEP 2: Select Registration Type

	Full Conference Early-bird Discount Deadline 2/3/2023 (includes meals)	Full Conference Regular Rate Starting 2/4/2023 (includes meals)	One-Day Rate (meals purchased separately below)	Amount Due
Member	\$330	\$355	\$200 Circle day M T W	
Nonmember	\$400	\$435	\$230 Circle day M T W	
Speaker (Member)	\$330	\$355	\$0 Circle day: M T W	
Speaker (Nonmember)	\$400	\$435	\$0 Circle day: M T W	
MWEA Retired Past President OR Life Member	\$0	\$0	\$0 Circle day: M T W	
MO-AWWA Retiree	\$0	\$0	\$0 Circle day: M T W	
Awardee (LUNCH ONLY)			\$0 Circle one: Mon. MWEA Wed. MO-AWWA	
Spouse/Guest (meals NOT included, purchase below)	\$0	\$0	\$0	
Student (meals included)	\$0	\$0	\$0	
Subtotal				

Step 3: Select Activities & Meals

	Full Conference Early-bird Discount Select meals below	Full Conference Regular Rate Select meals below	One-Day Rate Meals purchased separately below	Amount Due
Sunday Lab Workshop (by itself with no conference ticket)			\$60 Check here <input type="checkbox"/>	
Sunday Lab Workshop (included with full conference ticket)				
Paint & Sip Event			\$30 Check here <input type="checkbox"/>	
Sunday Reception			\$25 Check here <input type="checkbox"/>	
Monday Opening Breakfast			\$35 Check here <input type="checkbox"/>	
Monday Lunch			\$40 Check here <input type="checkbox"/> Circle: MWEA or AWWA	
Tuesday Breakfast			\$30 Check here <input type="checkbox"/>	
Tuesday Lunch			\$40 Check here <input type="checkbox"/>	
Tuesday Banquet			\$60 Check here <input type="checkbox"/>	
Wednesday MWEA 5S Breakfast MWEA 5S MEMBERS ONLY	\$25 Check here <input type="checkbox"/>	\$25 Check here <input type="checkbox"/>	\$25 Check here <input type="checkbox"/>	
Wednesday Lunch			\$30 Check here <input type="checkbox"/> Circle: MWEA or AWWA	
Voluntary contribution to Water For People				
Subtotal This Page				
Previous Page Subtotal				
Grand Total				

Step 4: Payment

Credit cards are ONLY accepted online. Checks made out to MWEA/MO-AWWA (or green MDNR vouchers) can be mailed with this form to Mary Odom MO-AWWA, 15914 Ryan Dr., Belton MO 64012. Questions to: MWEA, Andrew Schranck at aschrank@lochgroup.com; MO-AWWA, Mary Odom at 816-318-7718, maryodom@awwa-mo.org. Requests for refunds will be honored, less a \$50 processing fee, only if received in writing by March 17, 2023.

1.3.2023

Register Online: www.jammissouri.com | Early Bird Deadline: February 3, 2023 | Registration Deadline: March 17, 2023

MWEA / MO-AWWA Policies

By registering for this event, you agree to abide by the policies below.

Cancellation

Guarantees for food & beverage, space rental, and printing cannot be changed by MWEA/MO-AWWA at the last moment. For this reason, we must adhere to strict cancellation guidelines. Requests for refunds will be honored, less a \$50 processing fee, only if received in writing via email or letter by March 17, 2023. No refunds will be made after March 17, 2023. Send your cancellation notice to maryodom@awwa-mo.org or by mail to Mary Odom, MO-AWWA, 15914 Ryan Dr., Belton MO 64012.

Speakers

People who are selected as a presenter may attend their own session and other technical sessions on the same day at no charge. If a speaker would like to attend a meal or a reception, they must purchase a separate meal ticket since no meals are included in the one-day complimentary registration. Speakers who are attending the entire conference do NOT receive a discount, however all meals are included with the full conference ticket. The speaker Discount Code was sent to all speakers via email and can also be obtained from Andrew Schrank at aschrank@lochgroup.com or Mary Odom at maryodom@awwa-mo.org.

Spouses/Guests

To secure the safety of all attendees, no one will be admitted to conference areas without a badge. Therefore, all guests including spouses must be registered. There is no fee to register a guest or a spouse, and no CEU credit can be awarded for this registration type.

Students

A student is defined as a person enrolled full-time in an institution of higher learning. Students are encouraged to attend the conference on a complimentary basis and to join MWEA or AWWA. There are many opportunities for students to participate such as presenting a technical session or competing in the MO-AWWA Fresh Ideas Poster Contest. Students can register for free with meals included using the Student Discount Code which can be obtained from Tori Bonnot, MWEA Student Activities Committee Chair at: tbonnot@qgateam.com or Corinne Duckworth, MO-AWWA Student Activities Committee Chair at cduckworth@carollo.com.

MWEA Retired Past President OR Life Member

To be eligible for this complimentary full conference registration ticket, a person must be a retired Past President of MWEA or received Life Member status from MWEA. All registrants who use this discount will be verified with WEF. The Discount Code can be obtained from Andrew Schrank at aschrank@lochgroup.com.

MO-AWWA Retiree

To be eligible for this complimentary full conference registration ticket, a person must be retired from the water industry and a member of MO-AWWA. All registrants who use this discount will be verified with MO-AWWA. The Discount Code can be obtained from Mary Odom at maryodom@awwa-mo.org.

Awardees

Those who are receiving an award at the conference are required to register for the day of the award's event and purchase a meal ticket. Awardees are also required to register all guests who will be attending and purchase meal tickets for guests as well. Registration is complimentary. MWEA Awards Luncheon is held on Monday, and MO-AWWA Awards Luncheon is held on Wednesday.

Health & Safety of Attendees

Attendance at or participation in MWEA/MO-AWWA's JAM23 is subject to the release below, and compliance with MWEA/MO-AWWA and the conference and event facilities' policies and procedures to implement current CDC and applicable state's recommendations regarding COVID-19, which includes, but are not limited to, wearing a mask, physical distancing, retreating immediately if feeling unwell or showing certain symptoms.

Release:

I hereby release, covenant not to sue, discharge, and hold harmless MWEA/MO-AWWA and its affiliates, including their respective employees, officers, directors, agents, and/or representatives, from any claim or cause of action, including all liabilities, penalties, losses, damages, costs, or expenses of any kind, arising out of or relating to exposure to COVID-19. I agree that the foregoing release, discharge, and covenants apply even when MWEA/MO-AWWA or its affiliate directly or indirectly caused injury, losses, or other harm related to COVID-19, whether by negligent acts or omissions, and whether a COVID-19 infection occurs before, during, or after participation in any MWEA/MO-AWWA (or affiliate) program. This release is binding on my heirs, administrators, executors, successors and assigns.

1.3.2023

Register Online: www.jammissouri.com | Early Bird Deadline: February 3, 2023 | Registration Deadline: March 17, 2023