

JOINT ANNUAL MEETING

March 27 – 30, 2022
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/OR code:

<https://bit.ly/2022JAM>



Professional Engineer PDH Information

Improved process this year!

Attendees desiring PDH credit will need to use the event app to scan themselves into the technical session(s).

MDNR OPERATOR CERTIFICATION

Attendees must sign the rosters daily to obtain MDNR renewal training credits.

Please note that DNR has changed vouchers from Drinking Water (Blue) to Wastewater (Green).

Workshop	Course Number	DWT	DS	WW	CAFO
Wastewater Laboratory Sunday 03-27-2022	2203184	4.0	4.0	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 03-28-22	2203185	4.0	4.0	4.0	0.0
Tuesday 03-29-22	2203186	7.0	7.0	7.0	0.0
Wednesday 03-30-22	2203187	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 \$405 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 = 7 hrs; Wednesday = 2.5 hrs*

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

Fellow Water & Wastewater Professionals:

The enclosed registration packet contains information for the 2022 Joint Conference 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 17th consecutive Joint Conference held between our organizations. As in the past, the combined meeting allows for an expanded technical program and a combination of agenda items that concern both organizations. John Killips (MWEA) and Jenny Doyle (MO-AWWA) have served as Program Committee Co-Chairs for this year's meeting and have prepared an outstanding technical program. The local arrangements have been finalized via the hard work of Bob Parks (MO-AWWA) and Bently Green (MWEA). There are many combined social activities to choose from including a golf tournament, a Sunday social night, and a variety of other activities. Proceeds from many of these events will benefit Water for People.

We plan to have a full house of exhibitors this year. The Exhibit Hall will be open from Sunday afternoon until Tuesday afternoon, and there are many events scheduled in the Exhibit Hall. These items include the Water for People Silent Auction, social hours on Sunday and Monday evenings, and numerous meal functions. We encourage everyone to spend time in the Exhibit Hall and take advantage of having so many industry service providers together in a single location.

The Opening Session will be on Monday morning, and the Keynote speaker will be Donnell Duncan, P.E., S.E. Associate Vice President Arcadis. Donnell Duncan, PE, SE is a speaker and author of 8 books with his most recent publication *A New Mindskin - Innovation, Creativity and Strategic Thinking for the Marketplace* released on January 1st, 2022. He is a structural engineer, project manager and business development professional in the water/ wastewater industry. Working out of the Atlanta office of Arcadis, he serves as the Account Lead for an Arcadis Regional Key Client. He is also the South Regional Structural Engineer of the Water Business Line. Other special guests will include John Trofatter, WEF Board of Trustees, and Sally Mills-Wright, AWWA Board Member.

We will hold the Joint Banquet on Tuesday evening that includes entertainment this year featuring dueling pianos. Individual MWEA and MO-AWWA functions and meals are dispersed throughout the three and a half days, so please refer to the program and registration information for these items. The Joint Conference will conclude after the MWEA Business Lunch and the MO-AWWA Awards Luncheon on Wednesday. Many dedicated volunteers have spent tremendous amounts of time and energy putting together the 2022 Joint Conference. 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!

Sincerely,

Becca Coyle
MWEA President

Mike Klender
AWWA Chair

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

**JOINT ANNUAL MEETING
MARCH 27-30, 2022**

PROGRAM SUMMARY

SATURDAY, MARCH 26, 2022

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

SUNDAY, MARCH 27, 2022

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)

POTW Interferences: What They Are and How to Respond
Kim Cole, P.E.

QA/QC, Ethics for a WWTP Laboratory
Mark J. Schrader and Karla Pierce

Total Suspended Solids – Is the water dirty?
Natalie Stahl

Nurturing an Understanding: Phosphorous and Nitrogen Nutrients
Zack Wilson

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. **JOINT CONFERENCE ORIENTATION** (62/63/64)
Recommended for first time attendees. All are welcome.

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 28, 2022

- 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** (Northwinds)
Welcome – Becca Coyle (President MWEA) and
Mike Klender (Chairman MO-AWWA)

Keynote Speaker – Donnell Duncan
- 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)
Proceeds to “Water for People”
- 10:00 a.m. to 11:45a.m. **CONCURRENT TECHNICAL SESSIONS**
- Noon to 2:00 p.m. **MWEA AWARDS LUNCHEON** (Northwinds)
- 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)
Proceeds to “Water for People”

TUESDAY, MARCH 29, 2020

- 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)
Proceeds to “Water for People”
- 7:00 a.m. to 8:00 a.m. **MO-AWWA SUSTAINABILITY COMMITTEE MEETING** (Leeward 76/77)
- 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)

WEDNESDAY, MARCH 30, 2022

- 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)
- 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)

POTW Interferences: What They Are and How to Respond

Presented by: Kim Cole, P.E.

This talk will be an overview of how chronic and acute events can impact Publicly Owned Treatment Works (POTWs). Case studies and tools will be presented to discuss how to identify and evaluate interferences. Visual evidence of wastewater treatment plant interferences will be shown and we will show examples of analytical results which indicate an interference. The important of data tracking for WWTP effluent, biosolids, and operational data will be discussed.

Topic: QA/QC, Ethics for a WWTP Laboratory

Presenters: Mark J. Schrader and Karla Pierce

- Basic understanding of QA/QC
- What is the difference?
- Precision vs. Accuracy
- Examples of implantation of these procedures for:
 - pH
 - TSS
 - BOD
 - Ammonia
 - Solids
 - Oil and Grease
 - E.coli.
- Data Integrity and Ethics related to laboratory results
- Integrity, Ethics, Improper Practice, Fraud, Falsification, Fabrication, Failure to follow SOPs
- How and when to report data integrity issues.
- Examples of Breaches of ethical behavior

Total Suspended Solids – Is the water dirty?

Presented by Natalie Stahl

TSS is an important water quality parameter measure for wastewater treatment operations and for environmental health. Total suspended solids (TSS) are particles that are found in the water. There are specific steps for the sampling - and in the laboratory - that must be taken to successfully analyze the TSS in the water sample. You are going to learn the proper method(s) for TSS analysis and other related parameters for measuring particulates in the water.

Nurturing an Understanding: Phosphorous and Nitrogen Nutrients

Presented by Zack Wilson

Nutrient pollution removal from wastewater, in the form of phosphorous and nitrogen, is a goal of utmost importance to wastewater treatment plants. If nutrient pollution is not removed from wastewater before being discharged back into the receiving waters in the environment, there can be dire and even fatal consequences for flora, fauna, and humans. This can be by the production of harmful microbial species, such as problematic algae and cyanobacteria that can produce toxic microcystin compounds. Another possible issue is the reduction of dissolved oxygen in the receiving waters by eutrophication, causing either the selection and propagation of dangerous organisms, undesirable nuisances such as odor and color, or the suffocation of aquatic organisms in some extreme cases. The introduction of harmful chemical species such as nitrite and nitrate into the environment is also an issue, as high levels can have adverse effects on human health. Luckily, wastewater treatment plants have the capability to measure nutrient pollution so that appropriate measures can be taken within the wastewater treatment plant to reduce the presence of nutrient pollution in the effluent generated by the wastewater treatment plant. With an understanding of the nutrient pollution limits as set by the wastewater treatment plant's NPDES (National Pollutant Discharge Elimination System) permits, an appropriate analytical method can be developed to not only detect the concentration of nutrients being discharged into the receiving waters, but also the concentration of nutrients within the plant to understand and optimize plant processes to further encourage nutrient pollution removal. These methods can be as simple as pre-packaged colorimetric methods, or as advanced as a myriad of EPA-recommended laboratory methodologies. However, knowing the concentration of nutrient pollution entering the

Missouri Water Environment Association
Laboratory Practices Committee
March 27, 2022 Joint Conference Workshop

wastewater treatment plant is only halfway to fixing the issue. A firm grasp of wastewater treatment methods available to combat nutrient pollution is also very important. Just as many wastewater treatment methods have their strengths regarding nutrient pollution removal, they also have their weaknesses. In understanding these strengths and weaknesses present in wastewater treatment processes, an understanding of how to minimize the effects of the wastewater treatment methodology weakness and how to maximize the strengths of the wastewater treatment methodology can become clear. In being educated as to why we fight so hard to remove nutrient pollution from our treated wastewater, we can ensure that we remember the reasons why we continue the battle against nutrient pollution. The purpose of this presentation is to create a greater awareness of the sources, consequences, analytical methodologies, and treatment techniques regarding nutrient pollution.

MONDAY, March 28, 2022

MODERATORS		Regulatory Update	Diversity, Equity & Inclusion	Hydraulic Modeling	PFAS	Pump Stations	Potpourri	Small Systems
		<i>Kevin Wiggins</i>	<i>Charlie Stevens</i>	<i>Roxanne Slater</i>	<i>Corrine Duckworth</i>	<i>Rachelle Lowe</i>	<i>Matt Auld</i>	<i>Tim Hunt</i>
10:00 AM	10:50 AM	MWEA Regulatory Update	Conference Introduction	How CFD Modeling Solved Critical Pump Performance Problems	PFAS Treatment and Mitigation Strategies	Riverview Lift Station: A Hydraulic Balancing Act with Combined Flows	Lateral Thinking: The Challenges and Potential Solutions to Sewer Lateral Rehabilitation	A Case Study on Lead in a Small Community
		<i>Jay Hoskins, St. Louis MSD</i>	<i>MWEA and MO-AWWA Leadership</i>	<i>Casey Leaf, Carollo</i>	<i>Nathan Dunahee, Burns & McDonnell</i>	<i>Brian Clow, Carollo</i>	<i>Peter Lyons, Woodard & Curran</i>	<i>Rachel Drain, Burns & McDonnell</i>
10:55 AM	11:45 AM	AWWA Regulatory Update	MWEA and Mo-AWWA DE&I Panel Discussion	Combining Biological and CFD Modeling to Boost Activated Sludge Basin Performance	PFAS Track: How to Build a Temporary PFAS Treatment System in 3 Months	Pump Station 101 – Design, Selection, and Optimization for Long-Term Savings	Columbia McBaine Water Treatment Plant – An innovative approach to capacity restoration and performance improvements	Prioritizing Improvements and Maximizing Grants for Lagoon Improvements to meet e. Coli and Ammonia Permit Requirements
		<i>Chris Moody, AWWA</i>	<i>Rebecca Losli, Missouri American Water & Heather Gipp, CMT</i>	<i>Kam Sardari, Andy Pruitt, Garver</i>	<i>Rob Little, Woodard & Curran</i>	<i>Kyle Sims, Derek Patrick, HDR</i>	<i>Nathan Kutil, HDR</i>	<i>John Shellhorn, Lamp Rynearson</i>

MODERATORS		Biosolids	Green Infrastructure	Nutrient Control	Utility Management	Water Treatment	Regulatory & Funding	Risk & Resilience
		<i>Doug Hickey</i>	<i>Bridget Harper</i>	<i>Alan Christanell</i>	<i>Tyler Robinson</i>	<i>Neil Amiri</i>	<i>Bob Welsch</i>	<i>Supria Paul</i>
2:00 PM	2:50 PM	Anaerobic Digestion of Organics: Overview of Two Case Studies for CHP and RNG Resource Recovery	Green Infrastructure as Placemaking in the Public Realm	Nurturing an Understanding: Phosphorous and Nitrogen Nutrients	Top 10 Water-Wastewater Changes Since 1980 & Top Ten Likely Changes in Next 30 Years	Optimizing Performance through Bench and Pilot Testing at the KCMO Water Treatment Plant	Partnership Programs – Treatment, Distribution, and Wastewater Optimization Programs	Is Your System Prepared for Emergencies?
		<i>Dustin Craig, CDM Smith</i>	<i>Kristi Mueller, Mike Arnold, AECOM</i>	<i>Zach Wilson, City of Springfield</i>	<i>Randall McIntyre, Garver</i>	<i>Karen Dietze, Black & Veatch; Ashton Rohrich, KC Water</i>	<i>Stephen Bialon, Todd Brewer, AWWA</i>	<i>Karen Edwards-Lindsey, Gabrielle Minton, EPA</i>
3:20 PM	4:10 PM	Aerobic Digestion: old challenge, new innovative solution!!	Green Infrastructure for Combined Sewer Overflow Reduction in Kansas City's Historic West Bottoms	Assessing Influent Wastewater Characteristics for Biological Nutrient Removal Systems: A Case Study	Is Your Utility Looking to Improve? There's a WISE way to join your Peers!	Tracer Testing at KC Water's 240 MGD Treatment Plant	Source Water Protection and the 2018 Agricultural Improvement Act: An Exercise in Coordination and Collaboration	Let's Talk Safety - Safety by Design and Innovative Tools
		<i>Fred Kade, EnviroMix</i>	<i>Jeff Doudrick, HNTB & Sriniv Vallabhaneni, KC Water</i>	<i>Ed Kobylinski, Olsson</i>	<i>Charlie Stevens, KC Water</i>	<i>Ashton Rohrich, KC Water; Karen Dietze, Black & Veatch</i>	<i>Ken Tomlin, MDNR</i>	<i>Mel Peterlein, Gordie Laster, Black & Veatch</i>
4:15 PM	5:05 PM	Recuperative Thickening: A Cost-effective Way to Expand Anaerobic Digester Capacity	10 Years of Green Infrastructure Lessons Learned	Mitigating Nonpoint Source Nutrient Pollution in Urban Runoff with Floating Treatment Wetlands	School-to-Work Program: How KC Water and KCPS joined forces to address workforce development issues in the water industry	Vintage 1957 Water Plant Restoration – All New Trim!	Updating the Lower Meramec 208 Water Quality Management Plan	Innovative Approach Enables Missouri DNR to be Strategic About Conservation Investments
		<i>Coenraad Praetorius, GHD</i>	<i>Lisa Treese, KC Water</i>	<i>Carla Campbell, Missouri S&T</i>	<i>John Lopez, KC Water; Maya Turner, Carollo; Christopher McNeil, KCPS</i>	<i>Amanda Johnson, Black & Veatch</i>	<i>Jay Hoskins, St. Louis MSD</i>	<i>Chris Wieberg, MDNR; Greg Wilson, Barr Engineering</i>

TUESDAY March 29, 2022

MODERATORS		Lead & Copper	Collection Systems	Funding & Finance	Industrial	Filtration & Disinfection	Asset Management	Wastewater Treatment
		Amanda Johnson	Jeff Shiner	Connie Walden	Jennifer Birger	Doug Wachslicht	David Ecklund	Dave Yates
8:00 AM	8:50 AM	Building and Using Your Lead Inventory to Address Health Inequity in the Water System	I&I Measurement Means More than Scratching the Surface	Federal Funding: How to get a Piece of the Pie for a Program	How to Make the Most of Your Industrial Pretreatment Program	A Pilot-Scale Study for reducing DBP Formation using Ozone-BAF and GAC	ASSET MANAGEMENT – YES, YOUR WATER TOWER TOO!	The Most Critical WWTP Facility: Headworks
		<i>Janet Strickland, Costas Kontos, AECOM</i>	<i>Jay Boyd, ADS Environmental Services</i>	<i>Matt Scott, Black & Veatch</i>	<i>Kimberly Cole, KimHEC</i>	<i>Ryan Saffels, Trent Stober, HDR; Kevin Wiggins, City of Columbia</i>	<i>Tim Wilson, DIXON Engineering</i>	<i>Caitlin Prim, Burns & McDonnell</i>
8:55 AM	9:45 AM	Lead and Copper Rule Revisions – Case Studies on Ways to Simplify Compliance	Construction of Large Diameter Sanitary Sewer through the City of Ladue	Sustainable Return on Investment - Informed Decision-Making to Improve the Springfield-Greene County Environment	On the Road Again: Mobile Pilot Advances Potable Reuse	Making the Most of Chlorine and Monochloramine for Secondary Disinfection	KC Water's Capital Improvement Program Planning & Delivery Improvements - The Power of Business Process Modeling	Winning the War Against Wipes
		<i>Emily Tummons, Black & Veatch</i>	<i>Rob Kuenzel, HDR</i>	<i>Saki Urushidani, City of Springfield</i>	<i>John Rehring, Carollo</i>	<i>Ashley Pifer, Garver</i>	<i>Dan Ott, Scott Parker, KC Water</i>	<i>Chris Downey, JWC Environmental</i>
10:15 AM	11:05 AM	Lead and Copper Rule – Where We Are and Where We Are Going	Decision Making Process for Identifying Optimum Trenchless Method for Corrugated Metal Pipe Rehabilitation	Money! Money Everywhere! How to Optimize your CIP Budget by Taking Advantage of Funding Programs	Makin' Bacon: DAF FOG Removal at a Bacon Production Facility in Salt Lake City, UT	Hannibal's GAC System: Predicted vs. Actual GAC Performance	Critical Assets - How MSD Got Their Act Together	For better or for worse? Installing a perforated plate screen – is this the best option for fine screening?
		<i>Christopher Parrish, Tim Ganz, American Water; Steve Kadyk, Jacobs</i>	<i>Noell Gaspard, RJN Group</i>	<i>Lacey Hirschvogel, David Carani, HDR</i>	<i>Mark Pearson, SCS Engineers</i>	<i>Ben Freese, Karen Marie Dietze, Black & Veatch; Matt Munzlinger, City of Hannibal</i>	<i>Catherine Politte & Nora Estopare, St. Louis MSD</i>	<i>Jeffrey Sober, Garver</i>
11:10 AM	12:00 PM	Lead and Copper Rule Revisions Focus on Lead Service Line Inventories	Out with the Old, In with the New: Asset Management Journey to an Improved Standardized CCTV Inspection using PACP	Making Cents of Customer Affordability: How to Assess, and Address, Challenges in Your Community	The Whole Hog: Lessons from Design Upgrades and Construction Management at a Hog Processing Pre-Treatment Plant	Use of Granular Activated Carbon (GAC) including Biological Filtration (BAF) for Taste and Odor Control and DBP Rule Compliance	Revisions to AWWA Std. D102-21 & NSF Std. 61: Now How Do I Select Tank Coating Systems?	Can I "Bug" You About Microbiology?
		<i>Jeff Pinson, MDNR</i>	<i>Andrew Kaufmann, Britnee Wilson, St. Louis MSD</i>	<i>Collin Drat, Raffelis</i>	<i>Samantha Weidenbenner, Zachariah Malach, Woodard & Curran</i>	<i>Zaid Chowdhury, Garver</i>	<i>Randy Moore, Dustin Kalbey, Tnemec</i>	<i>Emily Lite, City of Moberly</i>

MODERATORS		Alternative Delivery	Wet-Weather	Master Planning	Water Distribution	Stormwater	Innovation & Technology	Wastewater Treatment
		Jenny Doyle	Chris Safford	James Okumu	Melissa Peterlein	Samantha Weidenbenner	Barry Howell	Karen Dietze
1:15 PM	2:05 PM	Kingsland Sanitary Storage Facility Design-Build	Startup of Dual-Purpose Filters Solves Both Dry and Wet-Weather Issues	A Tale of Two Models - Applying 21st Technology Solutions to Distribution System Master Planning.	Risk & Reward: Framing KC Water's Main Replacement Program and Risk Model	Leveraging Cost-effective Urban Flooding Assessment Tools for Missouri Communities	Expecting the Unexpected: How technology can help you navigate everything from small service requests to major emergencies.	Optimizing Anaerobic Digestion: Five Ways to Boost Methane Production – A Case Study of the Spring Branch WWTP
		<i>Doug Wachslicht, Goodwin Brothers; Jason Shurtz, Heather Gipp, CMT</i>	<i>Jim Fitzpatrick, Nathan White, Alan Christianell, Black & Veatch</i>	<i>Thomas Crowley, Darryl Corbin, Carollo</i>	<i>Ryan Scott, Brian Hiller, Burns & McDonnell; Scott Parker, KC Water</i>	<i>Lee Hauser, Patrick VanDeWiele, Geosyntec</i>	<i>John Bertrand, Daupler</i>	<i>Wes Cardwell, Garver</i>
2:10 PM	3:00 PM	Blue River Biosolids: Can Lump Sum Design-Build Be Progressive?	Got CSO Issues? Well don't fill in that old lagoon just yet!	Meet Exploding Water Demands	Finding the Needle: Nitrification and Corrosion Control Investigations in an Expansive Distribution System	Watershed-based plans – a friendly alternative to a TMDL	CSOs - You're going down! The STL Journey to Utilize Optimization and RTC to Improve Operations and Water Quality.	City of Kansas City, Missouri - Todd Creek WWTP Expansion and Improvements
		<i>Blake Anderson, Matt Bond, KC Water; Hannah Fodor, Carollo</i>	<i>Chris Bergmann, Chad Ross, TWM</i>	<i>Tim Straszacker, Horner & Shifrin</i>	<i>Rebecca Poole, Justin Sutherland, Luke Snell, Carollo</i>	<i>Rishab Mahajan, Geosyntec; Lynne Hooper, Boone County</i>	<i>Joshua Hallsten, Jacobs; Jeff Shiner, St. Louis MSD</i>	<i>Paul Ward & Andrew Hummel, Burns & McDonnell</i>
3:15 PM	4:05 PM	Successful Design-Build Approach for Sewer Condition and Capacity Improvements	A Potpourri of Sewer Improvements Leads to CSO and Storm Water Flooding Risk Reduction	Planning Ahead – Duckett Creek Sanitary District's Optimization of its Financial Forecast	Where's my Water? Zeroing in on Water Loss and Better Delivery Efficiency	Slip Sliding Away...	Stuck in the matrix of your water/sewer infrastructure? Capture reality with this technology.	A first in Kansas. Implementing AGS for the Wolcott Wastewater Treatment Plant Upgrade
		<i>Dana Giesy, Mike Odrowski, CDM Smith; Brian Hess, KC Water</i>	<i>Weston Engel, Carollo</i>	<i>Keith Arbusckle, Julie O'Guinn, Carol Malesky, Duckett Creek Sanitary District</i>	<i>Evan Tromble, Garver</i>	<i>Stephen Kadyk, Jacobs; Matt Koesterer, St. Louis MSD</i>	<i>Derek Twente, Andy Joost, TWM</i>	<i>Brandon Coleman, HDR</i>
4:10 PM	5:00 PM	Proper Planning and Teamwork – A CMAR Tale of Critical Pump Replacement	Separate combined sewers without increasing the downstream flows? A pipe dream that is coming to reality.	Funding Options for Your Water Projects	Balancing Capacity and Water Age: Beaver Water District's Western Corridor	Daylighting—a Light at the End of the Culvert	Did Sara Conner Fail? Robotic Process Automation in the Workplace	First in the Region: Startup of Sidestream Deammonification
		<i>Dave Bunch, HDR</i>	<i>Ryan Rossell, Carollo</i>	<i>Amber Woolen & Seema Chavan, Carollo</i>	<i>Brad Hammond, Chris Hall, Olsson</i>	<i>Jared Rasmussen, Olsson; Tim Rosenbury, City of Springfield</i>	<i>Jon Sprague, Crystal Hibbert, St. Louis MSD</i>	<i>Kelly Gordon, Jim Fitzpatrick, Dmitri Mitchell, Black & Veatch</i>

Wednesday, March 30, 2022

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



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.

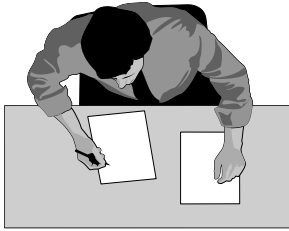
Accommodations may be provided for disabled or handicapped persons. Requests must be submitted in writing with this application.

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 TBA**

**Sunday, March 27th, 2022
1:00 p.m. 'til 4:00 p.m.**

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

**John Lopez
P.O. Box 835
Smithville, MO 64089
Cell: 816-529-2230
jlo.87728@gmail.com
Jlopez@kcpublicshools.org**

Submit Applications for examination by March 10th, 2022.

**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		

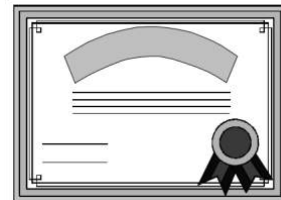
By signing this form, I verify that all information enclosed herein is true and indicate my agreement to abide by testing procedures and rules or decisions of the MWEA Collection Systems Committee regarding certification under this program, and hereby waive any claim that I may have against the Committee 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:



John Lopez
P.O. Box 835
Smithville, MO
64089
Cell: 816-529-2230
jlo87728@gmail.com

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:

*John Lopez
 P.O. Box 835
 Smithville, MO
 64089
 Cell: 816-529-2230
 Jlo87728@gmail.com*

2022 WEF Visiting Officer

John Trofatter
WEF Trustee



John Trofatter is a member of the 2021-22 Board of Trustees for the Water Environment Federation (WEF), an international organization of water quality professionals headquartered in Alexandria, VA.

John is the Director of Business Development for Teledyne ISCO - Water Platform and responsible for strategic and business development activities of the Water Platform products and services. He has over 40 years of experience in the development and application of instrumentation and control systems in the water related industries working in a variety of capacities including general management, sales, product development, project management and engineering.

A WEF member since 1989, John became engaged with Operations Challenge in 2001 as a collection systems event judge. He assumed the roles of the Collection Systems Event Coordinator, Operations Challenge Committee Vice-Chair and then Chair. John also became an active member of the WEF Collection Systems Committee. He later moved to the Committee Leadership Council as Vice-Chair and then Chair. John is a member of the New England and Florida WEAs and a past member of the Michigan and New York WEAs.

John is a graduate of Nassau Community College with a degree in electronic/instrumentation technology and attended City College of New York for Electro-Mechanical Engineering. He is certified in many business practices including Lean Management, 80/20 Methodology, Goal Deployment and Business Value Stream Mapping.

2022 MO-AWWA Visiting Officer

Cheryl Porter
AWWA Board Member



Cheryl Porter is the Chief Operating Officer of the Great Lakes Water Authority in Detroit, MI, where she has been employed since 1996, when it was known as the City of Detroit Water and Sewerage Department. Cheryl has been an active member of the Michigan Section of AWWA since joining in 2005.

Paul Reinsch, Michigan Section Chair, commented that, “Cheryl Porter is a passionate, dedicated and talented water professional.” He also stated: “Cheryl thinks strategically and shows great concern for people. Her input is thoughtful and valuable.”

In addition to service on various AWWA committees, Cheryl currently serves as Trustee and Government Affairs Council Member for the Michigan Section. At the Association level, she is a Director-at-Large on the AWWA Board of Directors, and a member of the Finance Committee.

Cheryl holds a Bachelor of Science in Chemistry from the University of Michigan – Ann Arbor, an MBA with a concentration in Human Resources from Madonna University in Livonia, MI and a Juris Doctor from University of Detroit Mercy School of Law.

2022 JAM Keynote Speaker

Donnell Duncan, PE, SE



Donnell Duncan, PE, SE is a speaker and author of 8 books with his most recent publication "**A New Mindskin** - Innovation, Creativity and Strategic Thinking for the Marketplace" released on January 1st, 2022. He is a structural engineer, project manager and business development professional in the water/ wastewater industry. Working out of the Atlanta office of Arcadis, he serves as the Account Lead for an Arcadis Regional Key Client. He is also the South Regional Structural Engineer of the Water Business Line.

He earned a bachelor's degree in applied physics from Morehouse College as well as bachelor's and master's degrees in civil engineering (structures) from Georgia Tech. He is a licensed Professional Engineer or Structural Engineer in 27 U.S. states including Missouri. He also earned a Diversity, Equity and Inclusion in the Workplace Certificate from the University of South Florida Muma College of Business.

He serves on the Steel and Composite Tank Committee (SCTC) and he leads Event Planning and Programming for the Diversity and Member Inclusion Committee (DMIC) of the American Water Works Association (AWWA). He also serves as the co-chair of the DE&I Board Subcommittee and House of Delegates Speaker-Elect of the Water Environment Federation (WEF). Lastly, he was the 2018/2019 winner of the President's Award for outstanding leadership in support of the Georgia Association of Water Professionals where he previously served as D&I Committee Chair.

Most importantly, alongside his wife, Angel, he pastors The Body Church in Decatur, GA.



water for people

MWEA & MO-AWWA Water For People

Sponsorship & Participation Opportunities at 2022 Joint Annual Meeting

The Water For People Committees of MWEA and MO-AWWA will continue their fundraising efforts at the 2022 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 18th 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 2022 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 Gratzero (contact information below) prior to March 22, 2022, 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 Gratzero, MWEA Committee Chair at (314) 425-8329 or jeffrey.gratzero@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

2022 Four Player Scramble Golf Tournament

Benefitting “Water for People”

Sunday, March 27th, 2022

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 18, 2022.
- \$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***

**2022 JOINT MWEA/AWWA ANNUAL CONFERENCE
- FOUR PLAYER SCRAMBLE GOLF TOURNAMENT -**

Benefiting “Water For People”

SUNDAY MARCH 27th, 2022

**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
16305 Swingley Ridge Road, Suite 230
Chesterfield, MO 63017
GrossenheiderD@bv.com**

2022 JOINT MWEA/AWWA ANNUAL CONFERENCE
- FOUR-PLAYER SCRAMBLE GOLF TOURNAMENT -

Benefiting “Water For People”

SUNDAY MARCH 27th, 2022

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 4, 2022**. 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
16305 Swingley Ridge Road, Suite 230
Chesterfield, MO 63017
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 27TH

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 29th 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!



FRESH IDEAS STUDENT POSTER COMPETITION

Date: Monday, March 28th

Time: 5:30-6:00 PM

Location: Outside the EXPO Hall

Join us for the 2nd 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 (ACE22) in June 2022 in San Antonio, TX to compete against winners from other states. 2nd and 3rd place posters will win cash prizes.

This is a great opportunity to network with young engineers entering the workforce and learn about industry trends and research programs at nearby 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 18th.



Missouri Section
American Water Works Association

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 29, 2022 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 29.

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.



Missouri Section
American Water Works Association



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 to cover registration costs to attend the Joint Annual Meeting for Water Operator training and education. The Joint Annual Meeting will be held March 27-30, 2022 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 \$175 to \$235 depending on the day of attendance. Full registration includes all meals with a value of \$290. 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 **March 4, 2022**. Scholarship awards will be announced by March 15, 2022. 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



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: _____

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)	\$0 Check here <input type="checkbox"/>	\$0 Check here <input type="checkbox"/>		
Sunday Reception	\$0 Check here <input type="checkbox"/>	\$0 Check here <input type="checkbox"/>	\$20 Check here <input type="checkbox"/>	
Monday Opening Breakfast	\$0 Check here <input type="checkbox"/>	\$0 Check here <input type="checkbox"/>	\$20 Check here <input type="checkbox"/>	
Monday Lunch	\$0 Check here <input type="checkbox"/> Circle: MWEA or AWWA	\$0 Check here <input type="checkbox"/> Circle: MWEA or AWWA	\$25 Check here <input type="checkbox"/> Circle: MWEA or AWWA	
Tuesday Breakfast	\$0 Check here <input type="checkbox"/>	\$0 Check here <input type="checkbox"/>	\$20 Check here <input type="checkbox"/>	
Tuesday Lunch	\$0 Check here <input type="checkbox"/>	\$0 Check here <input type="checkbox"/>	\$25 Check here <input type="checkbox"/>	
Tuesday Banquet	\$0 Check here <input type="checkbox"/>	\$0 Check here <input type="checkbox"/>	\$50 Check here <input type="checkbox"/>	
Wednesday MWEA 5S Breakfast	\$0 Check here <input type="checkbox"/>	\$0 Check here <input type="checkbox"/>	\$20 Check here <input type="checkbox"/>	
Wednesday Lunch	\$0 Check here <input type="checkbox"/> Circle: MWEA or AWWA	\$0 Check here <input type="checkbox"/> Circle: MWEA or AWWA	\$25 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 (or MDNR vouchers) can be mailed with this form to Mary Odom MO-AWWA, 15914 Ryan Dr., Belton MO 64012. Questions to: MWEA, Allison Mannion at 314-446-3794, amannion@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 18, 2022.

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 18, 2022. No refunds will be made after March 18, 2022. 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 Allison Mannion at AMannion@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@gbateam.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.

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.

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 JAM22 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.