

# Joint Annual Meeting

March 31 – April 3, 2019

Tan-Tar-A  
Osage Beach, MO



**Missouri Section**  
American Water Works Association



American Water Works  
Association

Dedicated to the World's Most Important Resource™

&



 **wef**  
member association

# Registration Available On-Line

<http://www.cvent.com/d/sbqtc8>

## **Professional Engineer PDH Information**

*Attendees desiring PDH credit shall obtain a form from registration to track their presentation attendance. Each attendee will be responsible for documenting their attendance. At the end of each day's sessions, completed forms shall be turned in to the Registration Area. MWEA and participant shall each keep a copy of the form for record purposes.*

## **MDNR OPERATOR CERTIFICATION**

*Attendees **MUST** attend classes to sign the rosters daily in order to obtain MDNR renewal training credits for each day attending.*

Workshop	Course Number	DW	DS	WW	CAFO
Wastewater Laboratory Sunday 03-31-19	1905092	3.0	3.0	4.0	0.0

MDNR has approved the Wastewater Laboratory Workshop to use Drinking Water Training Vouchers (Blue) only for payment of the workshop registration fee. Wastewater 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	DW	DS	WW	CAFO
Monday 04-01-19	1905093	4.0	4.0	4.0	1.0
Tuesday 04-02-19	1905094	6.5	6.5	6.5	4.0
Wednesday 04-03-19	1905095	2.5	2.5	2.5	0.0

MDNR has approved the Annual Meeting weekdays of Monday through Wednesday or Full Conference to use Drinking Water Training Vouchers (Blue) only for payment. MDNR will allow voucher reimbursement at a maximum of \$150 per day and not to exceed \$450 per person for the meeting. Wastewater Training Vouchers will not be accepted for the Monday through Wednesday or Full Registration.

***MDNR Rosters will be available for signing at the end of each day's sessions in the Registration Area 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***

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

Fellow Water & Wastewater Professionals:

The enclosed registration packet contains information for the 2019 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 14th consecutive Joint Conference held between our organizations. Due to the outpouring of positive feedback we have received across our respective membership bases, MWEA and MO-AWWA will continue our success by holding Joint Conferences through 2020 at the Margaritaville Lake Resort (Tan-Tar-A).

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 **Joel Ogle** (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 **Jennifer Welsch** (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 these events will benefit *Water For People*.

We 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 all attendees to spend time in the Exhibit Hall and take advantage of having so many industry service providers together in a single location.

Please note **THE LAYOUT OF THE EXHIBIT HALL WILL BE THE SAME AS LAST YEAR. BOOTH SIZE WILL BE 8' X 8' IN THE EXHIBIT HALL.** The current number of spaces available is 140.

The Opening Session will be on Monday morning, and the Keynote speakers will be George Hawkins who launched his leadership and innovation-focused consulting business, Moonshot LLC, after stepping down as CEO and General Manager of DC water. Other special guests will include Tom Kunetz, WEF President, and Mark Coleman, AWWA Vice President.

We will hold the Joint Banquet on Tuesday evening that includes a special change in the entertainment. 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 2019 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,



Drew Hess, PE  
Chair, MO-AWWA



Rebecca Barefoot Losli, PE  
President, MWEA

**MISSOURI WATER ENVIRONMENT ASSOCIATION  
&  
MISSOURI SECTION - AMERICAN WATER WORKS ASSOCIATION  
JOINT ANNUAL MEETING  
March 31 to April 3, 2019**

**PROGRAM SUMMARY**

**SATURDAY, MARCH 30, 2019**

1:30 p.m. to 4:30 p.m.      **MWEA EXECUTIVE COMMITTEE MEETING**

**SUNDAY, MARCH 31, 2019**

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**

12:00 p.m. to 4:30 p.m.      **LABORATORY WORKSHOP**  
*Moderator – Jimmy Coles*

**Whole Effluent Toxicity Testing – Chronic vs. Acute – What Does It  
Mean? Why Should I Be Concerned?”**

Rob K. Morrison, PE, Vice President & Senior Water Resources  
Engineer, Barr Engineering

**The Benefits of Implementing a SCADA System in a Wastewater  
Treatment Facility – A Two-Part Presentation**

Tanner Davignon, Logic, Inc. – Springfield  
Bruce Hinkston, NW Treatment Plant Supervisor, City of Springfield,  
MO Environmental Services

**Emerging Technologies for Ensuring Validated Water Quality  
Measurements, Data Collection and Analysis**

Sam Utley, Hach Company  
Darren Wacławski, Hach Company

1:00 p.m. to 4:00 p.m.      **COLLECTION SYSTEM VOLUNTARY EXAM – MWEA**

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

7:00 p.m. to 10:00 p.m.      **YOUNG PROFESSIONALS AND PLANT OPERATORS SOCIAL**

## **MONDAY, APRIL 1, 2019**

6:30 a.m. to 5:00 p.m.	<b>REGISTRATION</b> (Convention Registration Desk)
7:00 a.m. to 9:00 a.m.	<b>BREAKFAST OPENING SESSION – JOINT</b>  Welcome – Rebecca Losli (President MWEA) and Drew Hess (Chairman MO-AWWA)  Keynote Speaker - George Hawkins, Founder and President of Moonshot LLC and Founder of Blue Drop, LLC
9:00 a.m. to 6:30 p.m.	<b>EXHIBIT Area Open</b>
9:00 a.m. to 6:00 p.m.	<b>Silent Auction</b> (Exhibit Area) <i>Proceeds to “Water for People”</i>
10:00 a.m. to 11:45a.m.	<b>CONCURRENT TECHNICAL SESSIONS</b>
Noon to 2:00 p.m.	<b>MWEA AWARDS LUNCHEON</b>
Noon to 2:00 p.m.	<b>MO-AWWA BUSINESS LUNCHEON</b>
2:00 p.m. to 5:05 p.m.	<b>CONCURRENT TECHNICAL SESSIONS</b>
5:05 p.m. to 6:00 p.m.	<b>Student Poster Contest (Registration Desk Hallway)</b>
5:05 p.m. to 6:30 p.m.	<b>RECEPTION</b> (Exhibit Area)
9:30 p.m. to Midnight	<b>CORNHOLE TOURNAMENT</b> <i>Proceeds to “Water for People”</i>

## **TUESDAY, APRIL 2, 2019**

7:00 a.m. to 5:00 p.m.	<b>REGISTRATION</b> (Convention Registration Desk)
7:00 a.m. to 1:30 p.m.	<b>EXHIBIT Area Open</b>
7:00 a.m. to 1:00 p.m.	<b>Silent Auction</b> (Exhibit Area) <i>Proceeds to “Water for People”</i>
7:00 a.m. to 8:30 a.m.	<b>EXHIBITORS CONTINENTAL BREAKFAST– JOINT</b> (Exhibit Area)
8:00 a.m. to 11:55a.m.	<b>CONCURRENT TECHNICAL SESSIONS</b>
Noon to 1:00 p.m.	<b>EXHIBITOR’S LUNCH – JOINT</b> (Exhibit Area)
1:15 p.m. to 5:00 p.m.	<b>CONCURRENT TECHNICAL SESSIONS</b>
5:30 p.m. to 10:00 p.m.	<b>JOINT BANQUET</b> 5:30-6:00 Happy Hour, Dinner 6:00, Band 8:00

## **WEDNESDAY, APRIL 3, 2019**

7:00 a.m. to 10:00 a.m.	<b>REGISTRATION</b> (Convention Registration Desk)
7:00 a.m. to 8:30 a.m.	<b>MWEA COMMITTEE CHAIR BREAKFAST</b>
8:00 a.m. to 9:00 a.m.	<b>MO AWWA/MWEA YP COMMITTEE MEETING BREAKFAST</b>
8:00 a.m. to 9:00 a.m.	<b>MWEA SSSSS MEMBER BREAKFAST</b>
9:15 a.m. to Noon	<b>CONCURRENT TECHNICAL SESSIONS</b>
Noon to 1:30 p.m.	<b>MO-AWWA AWARDS LUNCHEON</b>
Noon to 1:30 p.m.	<b>MWEA BUSINESS LUNCHEON</b>

Missouri Water Environment Association  
Laboratory Practices Committee  
2019 Joint Conference Workshop

<b>12:00pm - 1:00pm</b>	"Whole Effluent Toxicity Testing – Chronic vs. Acute – What Does It Mean? Why Should I Be Concerned?"	Rob K. Morrison, PE, Vice President & Senior Water Resources Engineer, Barr Engineering
<b>1:00pm - 1:10pm</b>	<b>Break</b>	
<b>1:10pm - 2:10pm</b>	"The Benefits of Implementing a SCADA System in a Wastewater Treatment Facility – <i>Part One of Two</i> "	Tanner Davignon, Logic, Inc. – Springfield Bruce Hinkston, NW Treatment Plant Supervisor, City of Springfield, MO
<b>2:10pm - 2:20pm</b>	<b>Break</b>	
<b>2:20pm - 3:20pm</b>	"The Benefits of Implementing a SCADA System in a Wastewater Treatment Facility – <i>Part Two of Two</i> "	Tanner Davignon, Logic, Inc. – Springfield Bruce Hinkston, NW Treatment Plant Supervisor, City of Springfield, MO
<b>3:20pm - 3:30pm</b>	<b>Break</b>	
<b>3:30pm - 4:30pm</b>	"Emerging Technologies for Ensuring Validated Water Quality Measurements, Data Collection and Analysis"	Sam Utley, Hach Company Darren Wacławski, Hach Company
<b>4:30pm</b>	<b>Sign MoDNR and LPC Attendance Forms</b>	

## Monday, April 1, 2019 - AM

		Emerging Contaminants	Wet Weather	Health & Safety	Asset Management	Planning & Management	Regulatory Issues	Planning & Management 2
10:00 AM	10:50 AM	<b>PFAS 101: An Introduction to Per- and Polyfluoroalkyl Substances</b>  <i>Dustin Mobley, Nick Burns, Bob Hulsey (Black &amp; Veatch)</i>	<b>Gray to Green: The Toledo Swan Creek Project</b>  <i>Jamie Brescol (Tetra Tech)</i>	<b>Revisiting - Safety Hurts!</b>  <i>Al Callier (Donohue &amp; Associates)</i>	<b>New Approach to Meter Asset Management: Using Data to Prioritize Meter Replacement</b>  <i>Carl Sharkey (Valor Water Analytics)</i>	<b>Missouri Strong! A People and Customer-Centered Approach to Flood Preparation</b>  <i>Catherine Politte (St. Louis MSD)</i>	<b>2019 State and Federal Legislation and Regulation Update</b>  <i>Jay Hoskins (St. Louis MSD), Lacey Hirschvogel (MPUA)</i>	<b>Towering Non-Compliance: Hidden Safety Negligence from Wireless Co-location on Your Water Towers</b>  <i>Eric Stechmann, Gary Moxley (Estech)</i>
10:55 AM	11:45 AM	<b>Treatment of Industrial Wastewater for PFAS</b>  <i>Kristen Jenkins, Bob Januska (GHD)</i>	<b>Design and Construction of a CSO Storage Tunnel in an Urban Community</b>  <i>David Ahlemeyer (Jacobs), Patricia Pride (St. Louis MSD), John Deeken (Black &amp; Veatch)</i>	<b>Lockout Tagout Basics</b>  <i>Brian Cline (City of Springfield)</i>	<b>Facilities Asset Management - the Next Frontier in Asset Management</b>  <i>Ryan Eisele (HDR)</i>	<b>Investing in Infrastructure Resilience</b>  <i>Nushat Dyson (US EPA)</i>	<b>A Case of the Permit Limit Blues</b>  <i>Nick Muenks (Geosyntec)</i>	<b>Rotate your Leaders! Optimizing Resources and Succession Planning Made Easy</b>  <i>Jonathon Sprague (St. Louis MSD)</i>

# Monday, April 1, 2019 - PM

		Alternative Delivery	Diversity & Inclusion	Health & Safety	Nutrients	Asset Management	Pump Stations	Reuse
2:00 PM	2:50 PM	<b>Breaking Ground with Design-Build: Developing MSD's Design-Build Strategy</b>  <i>Cary Duchene (Black &amp; Veatch), Jared Barr (St. Louis MSD)</i>	<b>Women in Water and Engineering: How Women are Changing the Industry and What We All Can Do to Promote Diversity and Inclusion</b>  <i>Allison Morris, Sarah Espinosa (Burns &amp; McDonnell)</i>	<b>Challenging Cases of Code Compliance: Upgrading Wastewater Treatment Facilities to comply with Requirements in NFPA 820 Standard Fire Protection for Wastewater Facilities</b>  <i>Dustin Craig (CDM Smith)</i>	<b>Missouri's Evolving Nutrient Drivers and Implementation Tools</b>  <i>David Carani, Trent Stober (HDR)</i>	<b>Best Practices and Lessons Learned in Asset Management</b>  <i>Ann Casey (Carollo)</i>	<b>Emergency Slide Gate Replacement - Lincoln Theresa Street WRRF</b>  <i>Jeremy Walker (Olsson)</i>	<b>Reuse and Nutrient Trading - a Key Marriage Along the Missouri River</b>  <i>Andy Clements (City of St. Joseph), Gary Hunter (Black &amp; Veatch)</i>
2:50 PM	3:20 PM	BREAK						
3:20 PM	4:10 PM	<b>Design Build Emergency Repair of 72-inch Aerial Sewer</b>  <i>Jeff Heidrick (Burns &amp; McDonnell), Karine Papikian (KC Water)</i>	<b>Women in Water Technical Panel</b>  <i>Moderator: Heather Gipp, CMT Engineering</i> <i>Panelists: Amanda Johnson, Black &amp; Veatch, Michelle Moellering, St. Charles County Water Supply District #2, W. Ruth Turner, 3T-Design&amp;Development L.L.C. (3T) and Marjorie L Melton, M3 Engineering Group</i>	<b>Comparison of Mercury-free to Mercury-based Digestion Vials in Tests of Chemical Oxygen Demand (COD)</b>  <i>Miles Pearson (City of Springfield)</i>	<b>New Versions of Proven Methods for Phosphorus Removal and Recovery</b>  <i>Jim Fitzpatrick, James Barnard (Black &amp; Veatch)</i>	<b>Performance Dashboards! Yes, Even Our Customers Know How We Are Doing!</b>  <i>Becca Coyle (St. Louis MSD)</i>	<b>Rebuild or Replace? That is the Pump Question.</b>  <i>Melody Glasscock, Theresa Kopper (CDM Smith)</i>	<b>Water Reuse – A Growing Nationwide Trend</b>  <i>Rob Morrison (Barr Engineering)</i>
4:15 PM	5:05 PM	<b>Are You Planning to Use Design-Build for Your Next Water or Wastewater Project?</b>  <i>Stan Christopher, Jessica Adams-Weber (HDR)</i>	<b>Intergenerational Management</b>  <i>Kerrie Greenfelder, Rachelle Lowe (Burns &amp; McDonnell)</i>	<b>Arc Flash Identification and Protection. Safe Work Practices</b>  <i>James Kilby (SMC Electric)</i>	<b>Learning from Others: Multiple Maumee Watershed Models of Potential Phosphorus Reduction Management Plans for Lake Erie</b>  <i>Elizabeth Toot-Levy (Geosyntec)</i>	<b>Water Storage Tank Inspection Standards and Guidelines</b>  <i>Penni Snodgrass (Tank Industry Consultants)</i>	<b>Riverview Lift Station Replacement Project: Design and Evaluation</b>  <i>Ryan Rossell (Carollo)</i>	<b>Making Water Reuse Sustainable in KCMO</b>  <i>Charlie Stevens (KC Water), Gary Hunter (Black &amp; Veatch)</i>



Tuesday, April 2, 2019 - AM								
		Wastewater Treatment	Biosolids	Collection Systems	Disinfection Byproducts	Drinking Water	Industrial / Regulatory	Lagoons & Small Systems
8:00 AM	8:50 AM	<b>Influent Screening Evaluation and Implementation</b>  <i>Allen Williams (Donohue)</i>	<b>Commissioning the World's Largest Thermal Hydrolysis Facility</b>  <i>Peter Loomis (CDM Smith)</i>	<b>Hydraulics of Pressure Sewer Systems</b>  <i>Keith McHale (Environment One)</i>	<b>DBP Control Evaluation: Transitioning from Chloramines to Free Chlorine in Hannibal, MO</b>  <i>Karen Marie Dietz, Ben Freese (Black &amp; Veatch), Mathew Munzlinger (Hannibal)</i>	<b>Pressure Transient Wave Monitoring and Solutions</b>  <i>Matt Lueders (Missouri American Water)</i>	<b>Review of Local Limits for Industrial Dischargers within the Metropolitan St. Louis Sewer District Service Area</b>  <i>Austin Nieman (St. Louis MSD)</i>	<b>Wastewater Management and the Design of its Governing Systems</b>  <i>Craig Lindell (Aquapoint)</i>
8:55 AM	9:45 AM	<b>Improved Secondary Clarifier Design for Efficient Solids Removal</b>  <i>Anjana Kadava, Ed Kobylinski (Black &amp; Veatch)</i>	<b>Mattabassett Experience - The First New Fluid Bed Municipal Sludge Incinerator in the US Meeting the New MACT LLLL Emission Limits</b>  <i>Levent Takmaz (SUEZ)</i>	<b>A Cost Effective, Sustainable Approach to Sewer Rehabilitation</b>  <i>Jessica Veatch, Michael Odrowski (CDM Smith)</i>	<b>High Bromide and Bromo-DBP Formation Evaluation and Control in Drinking Water System</b>  <i>Xiaolong He (Missouri University of Science &amp; Technology)</i>	<b>Managing Linear Assets Beyond Their Original Design Life - Water Transmission Main Case Study</b>  <i>Lisa Douglas (Ace Pipe Cleaning), Mark Wade (Blue Water Solutions)</i>	<b>Peak Flow Management: The Latest Regulatory Landscape and Effective Strategies</b>  <i>Trent Stober (HDR), Jay Hoskins (St. Louis MSD)</i>	<b>Modeling for Success - Taking Lagoon Process Design to the Next Level</b>  <i>Jim Martin (Lemna Environmental)</i>
9:45 AM	10:15 AM	BREAK						
10:15 AM	11:05 AM	<b>First of its Kind Treated Effluent Discharge Saves City Over \$5M</b>  <i>Chris Horvath (City of O'Fallon), Jennifer Anders (Woodard &amp; Curran)</i>	<b>Thermal Hydrolysis Comes to Texas!</b>  <i>Samir Mathur (CDM Smith)</i>	<b>What Gets In The Forcemain Should Stay In The Forcemain</b>  <i>Stan Polivick (City of Cape Girardeau), Wayne Lindsey (Pure Technologies)</i>	<b>Active Mitigation of THM Levels in Drinking Water Distribution Systems</b>  <i>Andy Seidel (PSI Water Technologies)</i>	<b>KC Water - Water Main Replacement Program Water Main Replacement Prioritization and Overview</b>  <i>Kirk Rome (KC Water)</i>	<b>NPDES Permitting 101...and Beyond</b>  <i>Phil Walsack (Burns &amp; McDonnell), Tim Bull (DNR)</i>	<b>Post Lagoon Ammonia Removal in 4 Iowa Towns</b>  <i>Matt Wildman (HR Green)</i>
11:10 AM	12:00 PM	<b>Selection of the Appropriate SBR Process Within Existing Site Constraints</b>  <i>Christopher Bergmann, Chad Ross (TWM, Inc)</i>	<b>Thermal Processing Technology Evolution: Thermal Oxidization; Incinerators, Gasifiers, Pyrolysis Reactors, Thermal Drying; Direct/Indirect, Solar and Biological Dryers</b>  <i>Stanley Chilson (GHD)</i>	<b>Geospatial Tools and Tricks for Sanitary Sewer Triple Bottom Line Results</b>  <i>Brandon Freeman (TREKK Design Group)</i>	<b>Tools to Fight DBPs and T&amp;O</b>  <i>Jessica Borries, Rachel Drain (Burns &amp; McDonnell)</i>	<b>Designing for Pipeline Settlement</b>  <i>Chris Sundberg (Victaulic)</i>	<b>Wastewater Reuse in the Food Processing Industry: A Case Study</b>  <i>Reinaldo Gonzalez, Enos Stover (The Stover Group)</i>	<b>Ammonia Limits and Lagoons: How Three Communities in Montana Achieve &lt;1 mg/L of Ammonia in &lt;34°F</b>  <i>Nick Janous (Nexom)</i>

## Tuesday, April 2, 2019 - PM

		Water Treatment	Construction & Project Planning	Collection Systems 2	Wet Weather	Drinking Water 2	Stormwater	Trenchless / Rehabilitation
1:15 PM	2:05 PM	<b>Drought Contingency Planning - Now is the Time</b>  <i>Jake White (Burns &amp; McDonnell)</i>	<b>St. Louis MSD's Road to Excellence in Utility Management</b>  <i>Sean Hadley, Bret Berthold (St. Louis MSD)</i>	<b>Private Lateral Inspection Program at Rock Creek Public Sewer District</b>  <i>Don Daniel (Rock Creek Public Sewer District)</i>	<b>Dual-Use Filter Expands Wet-Weather Treatment Capacity</b>  <i>Alan Christanell (Black &amp; Veatch)</i>	<b>Missouri American Water Efforts in NRW (apparent vs real)</b>  <i>Paul Ebbeler, Renita Goldstein, James Fuller (Missouri American Water)</i>	<b>Utilizing Watershed Management Techniques to Improve Water Quality and Address TMDL's</b>  <i>Greg Phillips (GBMc &amp; Associates)</i>	<b>Gravity and Pressure Pipe Rehabilitation Options and Technologies</b>  <i>Brian McCrary (Insituform)</i>
2:10 PM	3:00 PM	<b>On-Site Hypochlorite Generation: A Safe and Reliable Disinfection Alternative to Bulk Sodium Hypochlorite and Gas Chlorine</b>  <i>Andy Seidel (PSI Water Technologies)</i>	<b>Construction Sequencing: A Constantly Moving Target</b>  <i>Corinne Duckworth (Carollo)</i>	<b>Right Sizing Your Capital Improvement Program: Utilizing Flow Monitoring Data to Determine the Need for Contingency Projects</b>  <i>James Kauffman, Andrew Kaufman (St. Louis MSD)</i>	<b>Predictive Analysis of a Sanitary Sewer System Through Machine/Statistical Learning</b>  <i>Bala Natarajan (Kansas State), Errin Kemper (City of Springfield), Chris Ramsey (Black &amp; Veatch)</i>	<b>Milwaukee Regional Medical Center Uses CFRP to Increase Life of PCCP Pipes by 20 years</b>  <i>Amber Wagner, Thomas Jimenez (Aegion)</i>	<b>A Look at the St. Louis Area MS4 Permit Strategy and Stormwater Management Plan</b>  <i>Jason Peterein (St. Louis MSD)</i>	<b>Horizontal Directional Drilling and its Role in 2 I70 Crossings for Columbia Water and Light</b>  <i>David Reuter (Underground Solutions)</i>
3:00 PM	3:15 PM	<b>BREAK</b>						
3:15 PM	4:05 PM	<b>Does Coagulation Remove Nanoparticles during Drinking Water Treatment?</b>  <i>Honglan Shi, Ariel Donovan (Missouri S&amp;T), Craig Adams (SLU), Todd Eichholz (DNR)</i>	<b>Utility Rate Making requires an Effective CIP - An Engineer's Perspective</b>  <i>Tony O'Malley, Colin Stalter (Larkin Lamp Ryneearson)</i>	<b>Emerging Technologies for the Structural Condition Assessment: Getting Back to Basics</b>  <i>Jared Carey (TREKK Design Group)</i>	<b>Stuffing Ten Pounds of ____ In A Five Pound Bag: Wet Weather Treatment Improvements at the Westside WWTP</b>  <i>Garrett Sheehan (Carollo), Blake Anderson (KC Water)</i>	<b>AWWA/USDA Source Water Presentation</b>  <i>AWWA National Representative</i>	<b>Optimizing Existing Stormwater Assets Saves Money</b>  <i>Andy Sauer (Burns &amp; McDonnell)</i>	<b>The New Era for Internal Reinstatement of Services in CIPP lined Watermains</b>  <i>George Bontus (Aegion)</i>
4:10 PM	5:00 PM	<b>Sludge...Where Does it Belong? Evaluating Disposal Alternatives for Water Treatment Residuals</b>  <i>Ben Haecherl (Carollo)</i>	<b>Makes Cents to Us – How MSD Prioritizes its Future Capital Investments</b>  <i>Angela Martin (St. Louis MSD), Jeff Theerman (Brown &amp; Caldwell)</i>	<b>Utilizing Hydroxal Radicals for Odor, Corrosion and FOG Mitigation</b>  <i>Michael Tuel (Vapex)</i>	<b>Putting Membrane Technology to Work for CSO Treatment</b>  <i>Marcos Lopez, John Brummer (Tetra Tech), Mike Ollivant (Parametrix)</i>	<b>No Sweat: Aerogel - Infused Thermal Insulating Coatings for Condensation Control</b>  <i>Dustin Keilbey, Andy Hoffman (Tnemec)</i>	<b>Streambank Improvements Improve Quality of Life: Spencer Creek in St. Peters</b>  <i>Rebecca Hawley, Paul Miller (GBA)</i>	<b>Retrofitting Storm Sewers In Established Neighborhoods The Willow Hill &amp; Deerfield-Wakefield Projects in Ladue, MO</b>  <i>Chad Mason, Josiah Holst (HR Green)</i>

**Wednesday, April 3, 2019**

**Moderator: Jay Hoskins**

9:15 AM

10:30 AM

**State and Federal Drinking Water & Clean Water Regulatory Updates**

10:30 AM

10:45 AM

**BREAK**

10:45 AM

12:00 PM

**State and Federal Drinking Water & Clean Water Regulatory Updates**



**WEF Visiting Officer  
Thomas E. Kunetz  
2018-2019 President**



**Thomas E. Kunetz** is the 2018-2019 President of the Water Environment Federation (WEF), an international organization of water quality professionals headquartered in Alexandria, Va.

Tom is the assistant director of monitoring and research for the Metropolitan Water Reclamation District of Greater Chicago, leading the district's efforts on key strategic engineering initiatives. He has over 30 years of experience in the field of environmental engineering in both the public and private sectors, focusing on design of wastewater treatment facilities, improving the water environment, and protection of public health.

A WEF member since 1992, Tom is the past chair of the Municipal Wastewater Treatment Symposium, and served on the Program Committee, and the Municipal Water Resource Recovery Design Committee. He was a member of the Chicago WEFMAX organizing committee, and served on the Stockholm Junior Water Prize organizing committee with the Illinois Water Environment Association.

Tom is a registered professional engineer in the state of Illinois. He is a graduate of the WEF-sponsored Water and Wastewater Leadership Center at the University of North Carolina, the 2012 recipient of the Charles Walter Nichols Award for Environmental Excellence from the American Public Works Association, and a WEF Fellow. He has served as technical advisor to the student chapter of Engineers for a Sustainable World at Northwestern University, traveling to Panama with the students.

Tom earned his B.S. in environmental engineering from the Pennsylvania State University and an M.S. in water resources engineering from Villanova University.



**American Water Works  
Association**

*Dedicated to the World's Most Important Resource™*

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## **AWWA Visiting Officer**

**Mark Coleman**

**Vice-President (2017-2019)**



Mark Coleman is a Senior Vice-President with Wade Trim in Detroit, Mich., where he has been employed since 1979. Mark has been an active member of the Michigan Section of AWWA since joining in 1981. Mark is currently an AWWA Life Member.

Involved in many of the Section's committees, Mark has served as Chair and Co-Chair of the Strategic Planning Committee, Michigan Section Chair, and Co-Chair of the Management and Leadership Division. Mark is also a member of the Water Environment Association, American Council of Engineering Companies and Society of American Military Engineers. Mark has received several awards including the George Warren Fuller Award in 2013.

He holds a BS in Civil Engineering from the University of Detroit. Mark and his wife Margie reside in Dearborn, Michigan and are the parents of Mark and Patrick.

# 2019 Joint Conference Keynote Speaker



## George S. Hawkins, Esq.

**George Hawkins** launched his leadership and innovation-focused consulting business Moonshot LLC after stepping down as CEO and General Manager of DC Water, where he served for eleven years, including several as a Board member.

During his tenure, he became well known for transforming DC Water into an innovative, customer-driven enterprise, while tripling its investment in clean water. DC Water's innovations ranged from award winning Green Infrastructure and a \$500 million investment in clean energy, to creative social media campaigns and patents for new treatment technologies that require less energy and chemicals but achieve better results. DC Water issued the nation's first century bond, world's first environmental impact bond, and spearheaded programs to support low income customers and provide meaningful job opportunities for District residents.

George retains an advisory role with DC Water and its non-profit Blue Drop spin-off, which markets products and services developed by the utility. He also serves on the National Infrastructure Advisory Council, which provides advice to the White House on infrastructure policy. George is an Executive in Residence for XPV Water Partners, the only private equity firm that focuses exclusively on supporting new and innovative water technologies. George also is on the Board of Directors of the North American Electric Reliability Corporation, which ensures the reliability of the bulk electric grid.

Prior to joining DC Water, Mr. Hawkins was Director of the District of Columbia Department of the Environment and has also served as Executive Director of several non-profit organizations in New Jersey, and held senior positions with the U.S. Environmental Protection Agency and the law firm Ropes & Gray.

George is a popular speaker and story-teller on water, infrastructure and environmental issues and seeks every opportunity to interact with both C-suite leaders and front-line personnel. He graduated Summa Cum Laude from Princeton University and Cum Laude from Harvard Law School and taught environmental law and policy for the Princeton Environmental Institute from 1999 to 2018. George was appointed in 2018 as a Professor in Practice by American University's School of Public Affairs, where he plans to develop course work focused local government excellence and water and the environment.

He has been the recipient of numerous awards for leadership and public service, including Governing Magazine's Public Official of the Year and DC Chamber of Commerce's Business Leader of the Year in 2014, the US Water Prize in 2016, and Top Ten Most Influential Local Government Official on the ELGL Top 100 List (#2) 2107, and in December 2017 – Ronald F. Kirby Award for Collaborative Leadership from the Metro Washington Council of Governments.

George has hobbies that range from jazz piano and bass guitar to work as a farm hand. He is married with five kids and is an avid hiker with his wife Natalie, and is put to shame by her in skiing, skating, tennis and all sorts of other sports.



## **MWEA & MO-AWWA** ***Water For People***

### **Sponsorship & Participation Opportunities at** **2019 Joint Annual Meeting**

The Water For People Committees of MWEA and MO-AWWA will continue their fundraising efforts at the 2019 Joint Annual Meeting at Tan-Tar-A. All funds raised from our various activities, including the Golf Tournament, Silent and Oral Auctions, Bean Bag Tournament 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](http://www.waterforpeople.org).

**For the 15<sup>th</sup> 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

\$200 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 coordinator, Ken Gambaro at (314) 646-2421 or [kmgamb@stlmsd.com](mailto:kmgamb@stlmsd.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 Tan-Tar-A.**

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## **Silent Auctions at 2019 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 Tan-Tar-A, 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 Ken Gambaro (contact information below) prior to March 22, 2019, 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](http://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 **Ken Gambaro** (314)646-2421 or [kmgamb@stlmsd.com](mailto:kmgamb@stlmsd.com)

Hope to see you at Tan-Tar-A.





# Missouri Water Environment Association & Missouri Section AWWA

## 2019 Four Player Scramble Golf Tournament

### Benefitting “Water for People”

Sunday, March 31<sup>st</sup>, 2019

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 available this year. Visit the MWEA website – [www.mwea.org](http://www.mwea.org) -for the link.

- Please note that we accept Master Card, Visa, and American Express during pre-registration. On-site registration requires a check (payable to MWEA/MO AWWA).
- Please do **NOT** send your golf forms in pdf format in an email to the registration staff. We have concerns of not being able to provide adequate security for credit card information sent through the mail. Those who are registering for golf using a credit card should register on-line.
- If you are paying by check, please make check payable to MWEA/MO AWWA and mail along with the completed registration form to Diane Grossenheider at the address on the form.
- Golf entries need to be sent in by March 22, 2019.
- Entry Fee is \$90/person: includes greens fees, cart, range balls, and hole competitions.
- 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 (314) 425-8339***

**2019 JOINT MWEA/AWWA ANNUAL CONFERENCE  
- FOUR-PLAYER SCRAMBLE GOLF TOURNAMENT -**

**Benefiting "Water For People"**

**SUNDAY MARCH 31, 2019**

**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 (\$90 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 by going to the MWEA site – [www.mwea.org](http://www.mwea.org) – and clicking on the link.
- ❖ If you are paying with a check, please fax or email this form and mail checks (checks made payable to "MWEA / MO AWWA") to:

**Diane Grossenheider  
HDR Engineering  
401 South 18<sup>th</sup> Street, Suite 300  
St. Louis, MO 63103  
[diane.grossenheider@hdrinc.com](mailto:diane.grossenheider@hdrinc.com)**

**2019 JOINT MWEA/AWWA ANNUAL CONFERENCE  
- FOUR-PLAYER SCRAMBLE GOLF TOURNAMENT -**

**Benefiting "Water For People"**

**SUNDAY MARCH 31, 2019**

**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 - \$200

☐

**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 18, 2019**. 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 by going to the MWEA site – [www.mwea.org](http://www.mwea.org) – and clicking on the link.
- ❖ If you are paying with a check, please fax or email this form and mail checks (checks made payable to "MWEA / MO AWWA") to:

**Diane Grossenheider  
HDR Engineering  
401 South 18<sup>th</sup> Street, Suite 300  
St. Louis, MO 63103  
[diane.grossenheider@hdrinc.com](mailto:diane.grossenheider@hdrinc.com)**

**MWEA Laboratory Practices Committee**  
**ORDER FORM**

**MANUAL OF LABORATORY PRACTICES**  
**FOR WASTEWATER TREATMENT PLANTS**

**Section 1**

*Working in the Laboratory, Hazards, QA/QC, Sampling & Preservation, BOD, TSS,  
% Solids, Temperature, Turbidity, pH, Settability, DO, SOUR Test*

**Section 2**

*Documentation, Laboratory Safety, Solutions, Reagents, Alkalinity, Ammonia,  
Chlorine Residual, COD, Volatile Acids, Fecal Coliform,  
Microscopic Examination*

**Section 3**

*Personal Protection & Safety, Spectrophotometry, Chloride, Cyanide, Nitrates,  
TKN, Oil and Grease, Phenols, Phosphorus, Sulfate*

**Section 4**

*Flame Atomic Absorption, Graphite Furnace AA, ICP  
Basic and Gas Chromatography, Cold Vapor Atomic Absorption, Ion Chromatography  
Mercury by Cold Vapor Atomic Absorption Spectroscopy, WET Test, Laboratory  
Operations Management.*

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Please mark items with quantity ordered. Price includes shipping.

____ ea <b>Section 1</b> with binder - \$20.00	____ ea <b>Section 3</b> , loose - \$15.00
____ ea <b>Section 2</b> , loose - \$15.00	____ ea <b>Section 4</b> , loose - \$15.00
____ ea <b>Sections 1,2,3,4</b> with binder - \$50.00	

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Make checks payable to "MWEA." The LPC is unable to accept purchase orders or cards. Send order form and check to: Phil Adlich

City of Warrensburg  
Water Pollution Control  
102 S. Holden  
Warrensburg, MO 64093

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NAME: \_\_\_\_\_

COMPANY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

AMOUNT ENCLOSED: \_\_\_\_\_ PHONE NUMBER: \_\_\_\_\_

(Please print clearly.)

**Supervisor:** \_\_\_\_\_ **Telephone:** (\_\_\_\_) - \_\_\_\_\_

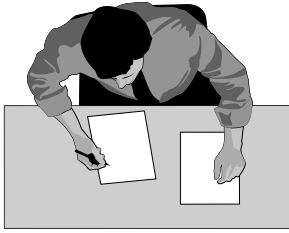
College: 1 2 3 4

**School or Institution Attended:** \_\_\_\_\_

**Duties:** \_\_\_\_\_

**Duties:**

P.O. 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 30<sup>th</sup>, 2019  
1:00 p.m. 'til 4:00 p.m.**

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

**John H Lopez**  
7300 Hawthorne Rd.  
Kansas City MO 64120  
Main Tel. 816-719-0446  
**[john.lopez@kcmo.org](mailto:john.lopez@kcmo.org)**

Submit Applications for examination by March 15<sup>th</sup>, 2019.

**Missouri Water Environment Association**  
**Collection Systems Committee**  
**Voluntary Collection Systems Operator Certification**  
**APPLICATION FOR EXAMINATION**

v. Oct2018

**Exam Date and Location** \_\_\_\_\_ **Time** \_\_\_\_\_

**Applicant Name** \_\_\_\_\_

(please **print clearly** the name you would want on your certificate)

**Email Address** \_\_\_\_\_

**Address** \_\_\_\_\_

**City/Town** \_\_\_\_\_ **State** \_\_\_\_\_ **Zip Code** \_\_\_\_\_

**Telephone** (\_\_\_\_\_) \_\_\_\_\_ **Employer** \_\_\_\_\_

**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:** \_\_\_\_\_

For information on exam levels and what can be expected at each exam level are provided on the MWEA website at: [www.mwea.org](http://www.mwea.org), under the **Continuing Education** header.

Make checks payable to "MWEA" and mail with application to:

MWEA Collection Systems Committee

John H Lopez  
7300 Hawthorne Rd.  
Kansas City MO 64120  
Main Tel. 816-719-0446  
[john.lopez@kcmo.org](mailto:john.lopez@kcmo.org)





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



Everyone is welcome to join the Young Professionals and Plant Operators after dinner as we have fun getting to know one another better while playing yard games and enjoying drinks and cookies!

**We will see you there!**



**SUNDAY NIGHT, MARCH 31<sup>st</sup>**

**Parasol I/II**

**8 - 11 PM**

## **NEW!** 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!*



**Missouri Section**  
American Water Works Association





SPONSORED BY VANDENANTER ENGINEERING

# Cornhole Tournament

April  
1st, 2019



location: TBD  
Registration at 8:30pm  
Teams or singles welcome  
\$10 per person



CALL JOE WITH QUESTIONS  
314-852-5385



# GRIFFIN

## AND THE GARGOYLES

Following the Joint Banquet  
Tuesday, April 2nd



Missouri Section  
American Water Works Association



Missouri Water  
Environment Association



# Rain Barrel Auction

## Don't Miss out!

**All Proceeds go to Water For People**

**Silent Auction Items**

**Decorated Rain Barrels**



**Come by the Water For People Booth and Bid on your favorite Barrel.**

**See how your dull rain barrel can be transformed into a work of art!**

## Participating Schools

- **Brittany Woods Middle School (University City School District)**
- **California Middle School, MO (Moniteau County R-1)**
- **Selvidge Middle School (Rockwood School District)**



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# 2019 MOAWWA/MWEA JOINT CONFERENCE

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## FRESH IDEAS STUDENT POSTER COMPETITION

**BE SEEN!** Meet water professionals from around the state, get yourself noticed, and make connections that just might land you a job.

**BE HEARD!** Share the results of your research or project work with the Missouri water community, and get thoughtful feedback and ideas for future work.

**WIN STUFF!** The winning student poster presenter will be sponsored to attend the AWWA national conference in June 2019 to compete against winners from other states. 2nd and 3rd place posters will win cash prizes (\$150 for 2nd place, \$75 for 3rd place).

**Apply starting January 2019, More information to come in early 2019!**

The competition is on April 1, 2019 at the 2019 MoAWWA/MWEA Joint Conference at Tan-Tar-A, 494 Tan Tar A Drive Osage Beach, MO 65065  
Student Members of MoAWWA or MWEA get FREE conference registration.

Topics related to drinking water, wastewater, stormwater, water resources and conservation are all eligible. Winning poster presenter will be expected to attend the AWWA national conference. Email Corinne Duckworth at [cduckworth@carollo.com](mailto:cduckworth@carollo.com) or Karen Marie Dietze at [DietzeK@bv.com](mailto:DietzeK@bv.com) for additional rules and guidelines.



# 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: COMMUNICATION!**

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 *amazing* prizes!

.....

## 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, April 2, 2019** 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.



## 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

**\$50 PrePaid Visa Gift Card**  
5 Business Cards

### Tier 2

**\$100 PrePaid Visa Gift Card**  
10 Business Cards



### Tier 3 Grand Prize

**\$150 PrePaid Visa Gift Card**

Submittal of one business card matching every description  
(15 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, April 2, 2019**.

Young Professional leadership will tally your business cards and return them to you. The winners of the raffle will be announced at the conference registration area **on Tuesday, April 2, 2019 (time TBD)**.

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.







## MWEA / AWWA 2019 Joint Conference

We are excited to be hosting MWEA / AWWA 2019 Joint Conference and look forward to a successful and memorable event. To receive MWEA/MO-AWWA discounted room rates, reservations must be made by Friday, March 1, 2019.

Per night room rates:

- \$100.00 guest room
- \$147.00 1-bedroom suite
- \$206.00 2-bedroom suite

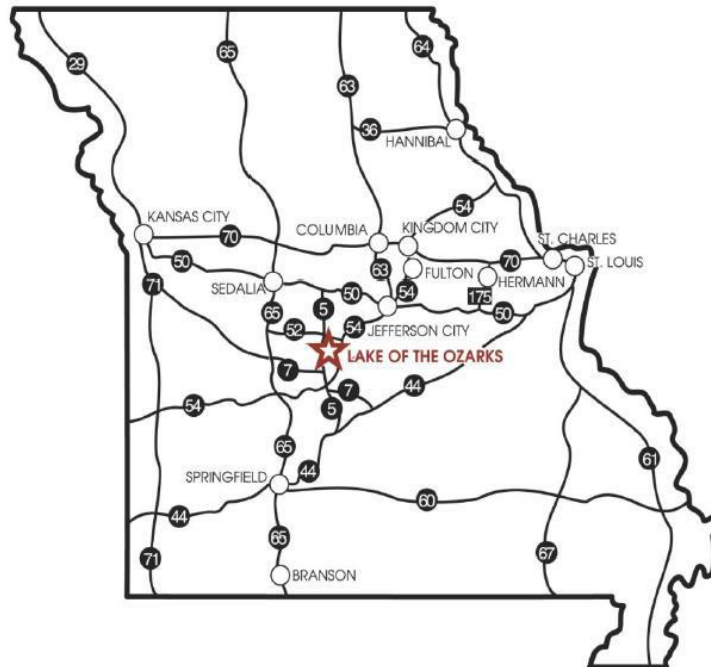
### To make reservations:

Call Tan-Tar-A Resort at 1-800-826-8272 and mention MWEA

-- OR --

- Go online at [www.tan-tar-a.com](http://www.tan-tar-a.com), click on "Groups & Conferences Click Here" box, enter group code: WATR

Hotel's customary check-in time is 4:00 pm and check-out time is at 11:00 am. You may request an early check-in or late check-out at the Front Desk. Tan-Tar-A 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. Tan-Tar-A 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. Tan-Tar-A 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. Tan-Tar-A 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. Tan-Tar-A will be 2 miles on the left. Approximate miles: 90

# 2019 Registration Information

***Registration Available On-Line for Conference***

<http://www.cvent.com/d/sbqtc8>

## **NEW THIS YEAR:**

**NEW Mailing Address for Registrations Paid by Check**

**Attendees ONLY – NOT EXHIBITORS**

**Mail your 2019 MWEA/Mo-AWWA Joint Meeting Registration Form to:  
Glenda McGaughey, 4103 Derby Ridge Drive, Columbia, MO 65202**

**No Poker Tournament this Year**

**No Spouse Program this Year**

## **REMINDERS:**

**We no longer accept paper registrations with credit card numbers due to security concerns; please register online.**

**Only paper registrations through the U.S. mail will be accepted if accompanied with check for payment.**

**You cannot register at the online registration site for MWEA voluntary exams or order the MWEA Lab Manual. Be sure to mail in the forms and checks as instructed for the following exams:**

- **Laboratory Voluntary Certification**
- **Collections Voluntary Exam**

**MWEA 5S Member Breakfast requires an additional payment of \$20 and needs to be marked off on your registration (paper or online).**

**AWWA Questions:** Please contact Gailla Rogers at 816-668-8561  
[gailla.rogers@gmail.com](mailto:gailla.rogers@gmail.com)

**MWEA Questions:** Please contact Nora Estopare at 314-436-8742  
[nestopare@stlmsd.com](mailto:nestopare@stlmsd.com)



## REGISTRATION INSTRUCTIONS 2019

Review the enclosed conference packet to determine the functions you wish to register for. Admission to all technical sessions and exhibits is by name badge only. Admission to each meal function is by ticket only. Clearly indicate meal tickets desired. Please print legibly or type clearly the information on the registration form. This information is used to prepare name badges. **Note: New Mailing Address for your Registration Form/Check shown below.**

1. Please note that we accept Master Card, Visa, Discover, and American Express either during pre-registration or on-site.
2. US Postal mailed paper registrations must be accompanied by check. Credit card numbers written on paper registrations will not be accepted.
3. **Online registration is available at: <http://www.cvent.com/d/sbqtc8>**
4. If you are paying by check or DNR vouchers, please make check payable to MWEA/MO AWWA and mail along with the completed registration form. **New Mailing Address: Glenda McGaughey, AWWA, 4103 Derby Ridge Drive, Columbia, MO 65202**  
To receive early registration rates, payment with registration form must be postmarked  
No later than **February 28, 2019.**

**Last day to Pre-Register is March 21, 2019.** On-site registration will resume Sunday March 31, 2019 @ 11:00 AM at TAN-TAR-A.

5. Cancellations must be received in writing, and sent to: **Glenda McGaughey AWWA, 4103 Derby Ridge Drive, Columbia, MO 65202.** A full refund will be made if the cancellation is emailed or postmarked no later than **March 13, 2019.** Phone cancellations will not be accepted.
6. Registration packets including name badges and event tickets will be located at the registration desk.
7. Contact the hotel directly for room reservations, by telephone or on-line at [www.tan-tar-a.com](http://www.tan-tar-a.com) using the Group Access Code **“WATR”**.
8. Exhibitors must complete a booth registration form, either downloaded from [www.awwa-mo.org](http://www.awwa-mo.org) or from Jeff Clarke at [jclarke@hydro-kinetics.com](mailto:jclarke@hydro-kinetics.com), 314-647-6104. Exhibitors are allotted complimentary registration badges for two (2) people with each booth registration. A maximum of two (2) additional badges per booth can be purchased for \$75 each. Exhibitors **DO NOT** need to purchase the buffet breakfast and deli lunch that takes place inside the exhibit area. All other meals must be purchased separately. Admission to exhibit area is by name badge only.
9. Those interested in the MWEA Voluntary Certification Exams and golf should complete the appropriate registration forms enclosed and return to the specified address with fee as instructed on each form or signup via online registration.
10. Speakers will receive a free one-day registration on the day they are speaking. If meals are desired, they must be purchased separately at the registration desk or via online registration.
11. Students who meet the criteria of the MWEA or MO AWWA student registration policy receive a free full registration. Please contact Allison Morris, MWEA Student Activities Committee Chair at: [aamorris@burnsmcd.com](mailto:aamorris@burnsmcd.com), 314-682-2966; or Corinne Duckworth, MO AWWA Student Activities Committee Chair at [cduckworth@carollo.com](mailto:cduckworth@carollo.com), 314-529-8511 for a Student Registration form.

Registration Questions: **MWEA** – Nora Estopare at 314-436-8742; [nestopare@stlmsd.com](mailto:nestopare@stlmsd.com)  
**MO-AWWA** – Gailla Rogers at 816-668-8561; [Gailla.Rogers@gmail.com](mailto:Gailla.Rogers@gmail.com)

# 2019 MWEA/MO-AWWA JOINT MEETING REGISTRATION FORM

(Please Print Legibly)

NAME:

Last First Middle

COMPANY:

ADDRESS:

Street City State Zip Code

EMAIL ADDRESS:

PHONE #:

On Site Emergency Contact Information:

Name Phone #  
WEF Member # AWWA Member # MWWC Member #

EARLY-REGISTRATION – Postmarked no later than 2/28/19		after 2/28/19	TOTAL
Full Conference Member	\$290	\$315	\$
Full Conference Non-Member	\$370	\$395	\$
Full Conference Retired Past-President/MO-AWWA Retiree	\$0		

**Full Registration includes these meals and Sunday Workshop; however, please indicate those you will be attending:**

☐ Sunday Lab Workshop  
☐ Sunday Meet & Greet  
☐ Monday Opening Breakfast  
☐ Monday MWEA Awards Lunch **← OR →** ☐ Monday MO-AWWA Lunch  
☐ Tuesday Breakfast  
☐ Tuesday Deli Lunch  
☐ Tuesday Evening Banquet  
☐ Wednesday MWEA Lunch **← OR →** ☐ Wednesday MO-AWWA Awards

**The following registrations DO NOT include the above meals**

	Conf Fee	Total
Speaker: <input type="checkbox"/> M <input type="checkbox"/> T <input type="checkbox"/> W Meals must be purchased below	\$0	-
MWEA Life Members Meals must be purchased below	\$0	-
Awardees: <input type="checkbox"/> M or <input type="checkbox"/> W Meals must be purchased below	See below	
Sunday Lab Workshop	\$50	\$
1-Day Registration <input type="checkbox"/> M <input type="checkbox"/> T <input type="checkbox"/> W Meals must be purchased below	\$150	\$
Spouse/Guest	\$0	-

**Extra Meal Tickets** (If you marked your meal selection above for full registration, do not repeat here)

	Meal Tickets			
Monday Opening Breakfast	\$20	\$		
Monday MWEA Awards Lunch	\$25	\$		
Monday AWWA Lunch	\$25	\$		
Tuesday Breakfast	\$20	\$		
Tuesday Deli Lunch	\$20	\$		
Tuesday Evening Banquet	\$45	\$		
Wednesday MWEA Lunch	\$25	\$		
Wednesday AWWA Awards Lunch	\$25	\$		
<b>Wednesday MWEA 5S Member Breakfast</b>	<b>\$20</b>	\$		
Voluntary contribution to Water for People	\$10	\$20	\$50	\$

On-line registration: <http://www.cvent.com/d/sbqtc8>

TOTAL \$

**FAXED REGISTRATIONS ARE NO LONGER RECEIVED; PLEASE NOTE DEADLINES**

Registrations with check may be mailed to: **NEW:** Glenda McGaughey AWWA, 4103 Derby Ridge Drive, Columbia, MO 65202. Registrations with credit card information no longer accepted in the US Mail, due to security concerns. For registration questions; **NEW:** MWEA, Nora Estopare at 314-436-8742; [nestopare@stlmsd.com](mailto:nestopare@stlmsd.com); AWWA, Gailla Rogers at 816-668-8561; [gailla.rogers@gmail.com](mailto:gailla.rogers@gmail.com)

**Last day for Pre-Registration is 3/21/2019. On-site registration will resume Sun., 3/31 - 11:00 AM at TAN-TAR-A.**

# Registration Checklist

Contact or send items to:	Activity
Missouri Section of AWWA 4103 Derby Ridge Drive Columbia, MO 65202	Annual Meeting Registration for members of both Associations
Gailla Rogers (816) 668-8561	Questions regarding MO-AWWA
Nora Estopare (314) 436-8742	Questions regarding MWEA
Tan-Tar-A 1-800-826-8272 or <a href="http://www.tan-tar-a.com">www.tan-tar-a.com</a>	To reserve hotel room
Jeff Clarke (314) 647-6104 or <a href="mailto:jclarke@hydro-kinetics.com">jclarke@hydro-kinetics.com</a>	Exhibit Area information
Ken Gambaro (314) 646-2421 or <a href="mailto:kmgamb@stlmsd.com">kmgamb@stlmsd.com</a>	To make donations for the Water For People auction & Student Scholarship Programs
Diane Grossenheider (314) 425-8339 or <a href="mailto:diane.grossenheider@hdrinc.com">diane.grossenheider@hdrinc.com</a>	Register for Golf Outing & Hole Sponsorship
John H Lopez 7300 Hawthorne Rd. Kansas City MO 64120	MWEA – Collection System Voluntary Certification Test
Phil Adlich City of Warrensburg Water Pollution Control 102 S. Holden Warrensburg, MO 61093	MWEA – Manual of Laboratory Practices for Wastewater Treatment Plants
Natalie Stahl PO Box 183 Catawissa, MO 63015	MWEA – Laboratory Analyst Voluntary Certification Test

Forms are also available on our websites. Please visit:

[www.awwa-mo.org](http://www.awwa-mo.org)

or

[www.mwea.org](http://www.mwea.org)

Missouri Water Environment Association  
P.O. Box 1572  
Jefferson City, MO 65102  
PERMIT 5452

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## Don't forget to Register for Fundraisers



**Start Planning for the 2020 Joint Annual Meeting!**  
**Contact the Awards Committee for nominating State**  
**and National Awards**