

The logo for 'One Water' features a stylized water drop icon composed of three overlapping shapes: a light green top, a blue left, and a purple bottom. To the right of the icon, the word 'one' is written in a blue, lowercase, sans-serif font, and the word 'Water' is written in a larger, blue, uppercase, sans-serif font below it.

# One Water

**2023 Technical Conference & Expo**  
Greater Columbus Convention Center  
August 21-24

**PRINTED PROGRAM SPONSORED BY**



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Instructions on back cover


# THANK YOU SPONSORS!

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IMPERIAL



ROYAL



COBALT










SAPPHIRE















AZURE















SKY






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Conference App ..... Back Cover

## CONTACT HOUR PROCEDURES

To receive credit for technical sessions, your name badge must be scanned in and out per session.





All attendees will receive a certificate of attendance after the conference via e-mail by September 8, 2023.












## CONFERENCE CO-CHAIRS

Melodi Clark, City of Columbus  
 Josh Holton, SWLCWS

Dick Lorenz, City of Westerville  
 Charles Moore, City of Columbus

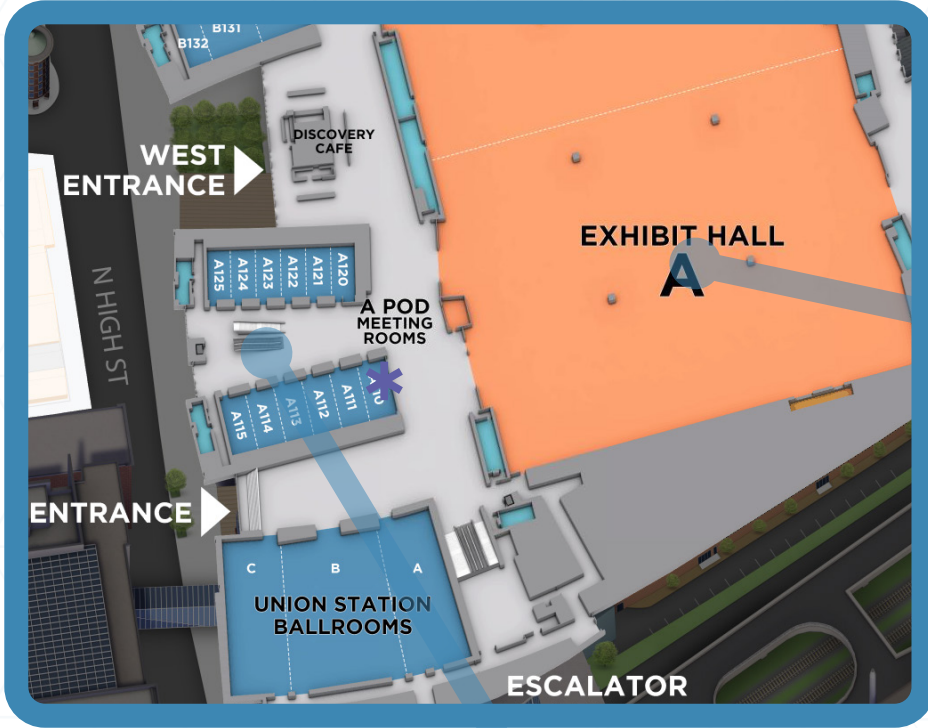
# SCHEDULE

Start	End	Event	CEUs/ Sponsor	Location
<b>Monday August 21</b>				
9:00 AM	5:00 PM	Attendee Registration		A110
9:00 AM	5:00 PM	Golf Outing	   	New Albany Links & Bent Tree Golf Course
10:00 AM	12:00 PM	Community Service Project		Hoover Reservoir
10:00 AM	5:00 PM	OWEA Challenges	 	Exhibit Hall A
12:00 PM	5:00 PM	Exhibitor Setup		Exhibit Hall A
5:30 PM	7:30 PM	Welcome Event Golfers, Attendees, & Exhibitors welcome!		Union Station Pre-Function
<b>Tuesday August 22</b>				
6:30 AM	5:00 PM	Attendee Registration		A110
7:00 AM	9:00 AM	Exhibitor Setup		Exhibit Hall A
8:00 AM	10:00 AM	Kickoff Breakfast & Keynote Kickoff One Water with Donnell Duncan		Union Station Ballroom AB
10:00 AM	5:00 PM	Exhibit Hall Open		Exhibit Hall A
10:00 AM	5:00 PM	OAWWA Competitions		Exhibit Hall A
10:00 AM	5:00 PM	OWEA Challenges		Exhibit Hall A
10:30 AM	11:30 AM	Fresh Ideas Posters Competition		Exhibit Hall A
10:45 AM	12:30 PM	AM Technical Sessions	1.5	A Pod
12:30 PM	2:30 PM	OWEA Awards Lunch Join us for lunch to honor the best in the wastewater industry. The OWEA & WEF awards will be presented. The 5S inductees will be announced and handed their red buckets.		Union Station Ballroom A
12:30 PM	2:30 PM	General Lunch		Exhibit Hall A
2:30 PM	5:15 PM	PM Technical Sessions	2.25	A Pod
5:00 PM	6:30 PM	Exhibit Hall Mixer Enjoy a beverage while seeing the latest in water & wastewater technology and products.		Exhibit Hall A
6:30 PM	9:30 PM	Meet & Greet Join us for heavy hors d'oeuvres and drinks to enjoy games such as foosball and pop a shot as you network with other industry professionals.	 	Union Station Ballroom

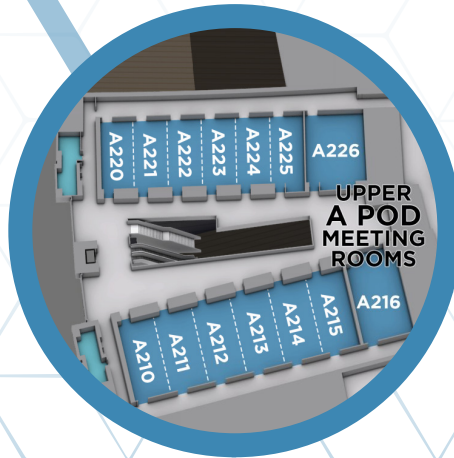
Start	End	Event	CEUs/ Sponsor	Location
<b>Wednesday August 23</b>				
7:00 AM	5:00 PM	Attendee Registration		A110
7:00 AM	8:30 AM	General Breakfast		Exhibit Hall A
7:00 AM	2:30 PM	Exhibit Hall Open		Exhibit Hall A
7:45 AM	12:30 PM	AM Technical Sessions	3.75	A Pod
8:00 AM	1:30 PM	Exhibit Hall Tours Tours will be at 8:00 AM, 9:30 AM, 11:00 AM, & 12:30 PM.	1	Exhibit Hall A
12:30 PM	2:30 PM	OAWWA Member Appreciation Lunch Join us for lunch to honor the best in the drinking water industry. The Ohio Section AWWA awards will be presented and the annual Business Meeting will be conducted.		Union Station Ballroom A
12:30 PM	1:30 PM	Crystal Crucible Lunch *Invitation Only		A223
12:30 PM	2:30 PM	General Lunch		Exhibit Hall A
2:30 PM	5:15 PM	PM Technical Sessions	2.25	A Pod
3:30 PM	4:30 PM	OWEA Business Meeting Open to OWEA members to hear updates and vote on the proposed bylaw change.		A224
4:30 PM	6:00 PM	Women's Networking Event Join us for refreshments & to expand your network.		A226
5:00 PM	6:00 PM	5S Induction		A224
5:00 PM	7:00 PM	Happy Hour Join us for happy hour to network with other industry professionals.		Union Station Pre-Function
<b>Thursday August 24</b>				
7:00 AM	3:00 PM	Attendee Registration		A110
7:00 AM	8:30 AM	General Breakfast		Union Station
7:00 AM	8:00 AM	OAWWA Past Chair/Awardee Breakfast *Invitation Only		A224
7:30 AM	8:30 AM	5S Breakfast *Invitation Only		A223
8:00 AM	10:00 AM	Regulatory Updates	1.5	Union Station Ballroom
10:00 AM	12:45 PM	AM Technical Sessions	2.25	A Pod
11:45 AM	1:15 PM	General Lunch		Union Station Ballroom
12:00 PM	1:30 PM	OWEA President's Lunch *Invitation Only		A223
1:15 PM	3:30 PM	Ethics Technical Sessions	2	A213-A215

# MAPS

## \* Registration

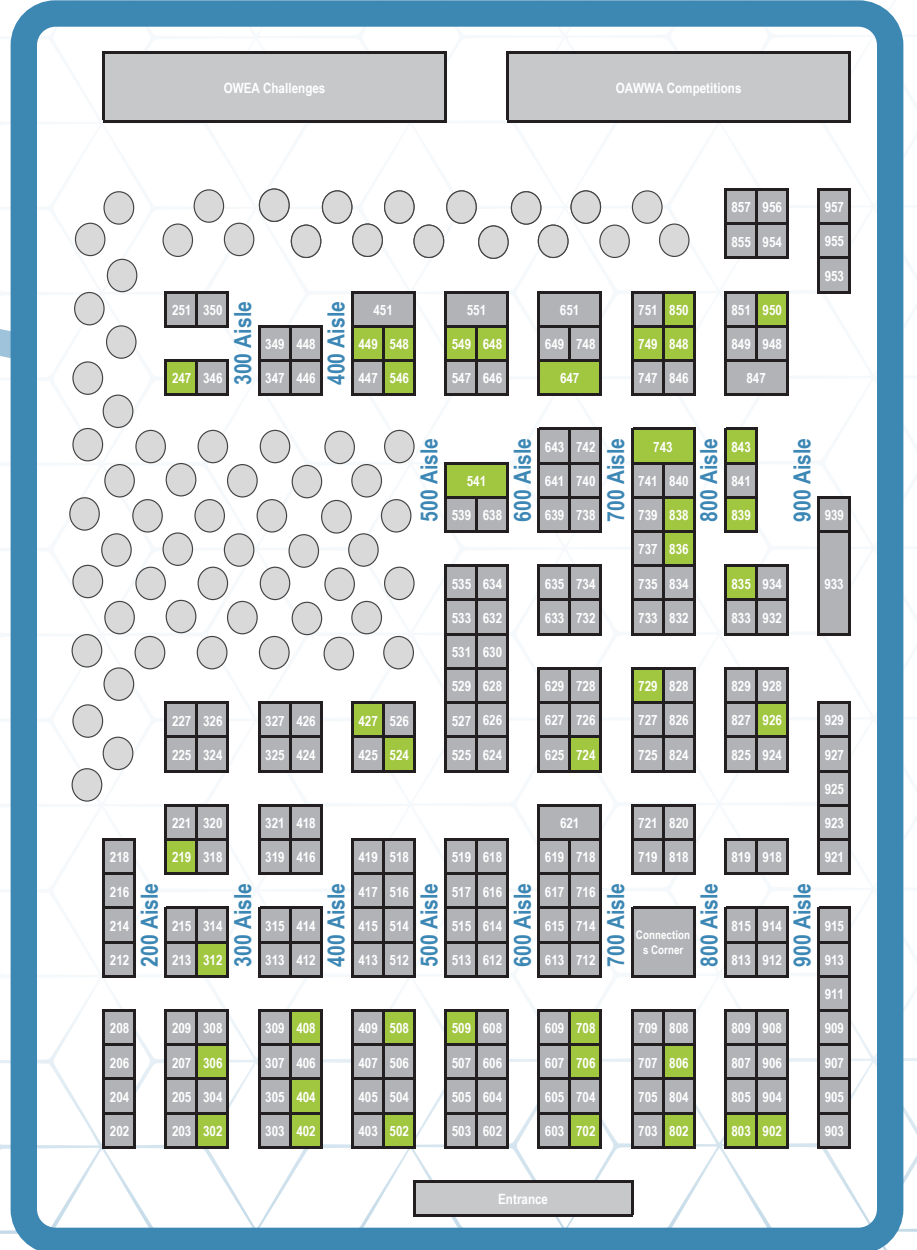


Take the escalator to get to the Upper A Pod



Exhibitors participating in the Exhibitor Passport are marked in green.

An Exhibitor Passport was provided with your registration materials. Additional information and replacement passports can be found at the front of the exhibit hall. Prizes include two \$500 Gift Cards, six \$100 Gift Cards, six \$75 Gift Cards, and numerous \$25 Gift Cards.



# CONNECTIONS CORNER

Plan now to join your fellow water and wastewater professionals in our new Connections Corner area in the Expo Hall! This area will be full of comfortable seating so you can relax and network. There will also be some great planned programming in this area that will help you stay connected to your organizations and One Water.

Start	End	Event
<b>Tuesday August 22</b>		
10:00 AM	12:00 PM	<b>One Water First Time Attendee</b> If it's your first time at One Water, then this is for you! You can meet with leaders of both organizations and get special first timers swag and information that will help you make the most of your experience.
1:30 PM	2:30 PM	<b>Chat with WPI (formerly ABC)</b> Do you have questions about the water or wastewater licensing exams? Talk to the experts!
3:00 PM	4:00 PM	<b>Chat with WEF/AWWA</b> This is your opportunity to talk to directly to YOUR WEF/AWWA national representatives. Come to share your thoughts or ask questions.
4:00 PM	5:00 PM	<b>DE&amp;I</b> Hear about what the OAWWA DI and the OWEA DEI committee are up to and how you can get involved!
5:30 PM	6:30 PM	<b>YP Meet-up</b> Are you a Young Professional? Plan to meet up with other YPs during this time.
<b>Wednesday August 23</b>		
10:00 AM	11:00 AM	<b>Chat with WEF/AWWA</b> This is your opportunity to talk to directly to YOUR WEF/AWWA national representatives. Come to share your thoughts or ask questions.
12:30 PM	1:30 PM	<b>Chat with WPI (formerly ABC)</b> Do you have questions about the water or wastewater licensing exams? Talk to the experts!

Connections Corner Sponsored by:



# EXPO HALL TOURS

<b>Wednesday   August 23</b>					
<b>Meet at Booth 909</b>					
8:00am-9:00am	<b>Tour 1 - Metering</b>	<ul style="list-style-type: none"> <li><span style="color: blue;">B</span> Variable Frequency Drives and Pump Control Applications</li> <li><span style="color: purple;">X</span> DRV, Inc.</li> </ul>	<b>VFD Drives - Harmonic Attenuation Strategies</b> ZESCO INC. A Galco Company	<b>Water Metering Basics</b> Neptune Equipment Company	<b>Advancements in Ultrasonic Transit Time Clamp On Flow Meters</b> Chaltron Systems Inc.
9:30am-10:30am	<b>Tour 2 - Data</b>	<ul style="list-style-type: none"> <li><span style="color: blue;">B</span> Getting Value out of Process Data</li> <li><span style="color: purple;">X</span> ATR Automation</li> </ul>	<b>Data Driven Intelligent Odor Control</b> Smith Environmental Inc.	<b>Case Studies in Statistical Modeling for Service Line Inventories</b> BlueConduit	<b>Catching COVID by Digitalized Wastewater Surveillance</b> Trinnex
11:00am-12:00pm	<b>Tour 3 - Maintenance</b>	<ul style="list-style-type: none"> <li><span style="color: blue;">B</span> Preventive Maintenance on Pumps/Wells</li> <li><span style="color: purple;">X</span> Layne - A Granite Company</li> </ul>	<b>Hydrant &amp; Valve Maintenance</b> Clow Valve Company	<b>Monoform+</b> HK Solutions Group	<b>Water Distribution Intervention Without Service Disruption</b> Hydra-Stop, LLC
12:30pm-1:30pm	<b>Tour 4 - Potpourri</b>	<ul style="list-style-type: none"> <li><span style="color: blue;">B</span> Using Solar Power to Power Water Treatment Centers</li> <li><span style="color: purple;">X</span> Kokosing Solar</li> </ul>	<b>Utilizing Energy Conservation Measures Alternative Contract Delivery Method in Water/Wastewater Projects</b> Bowen Engineering Corporation	<b>Texler Llamela Plate Settler Innovation</b> Xylem	<b>Waterline Service Tubing Advancements</b> Utility Solutions, Inc.

W = Drinking Water   
 WW = Wastewater   
 B = Both  
X = Other   
 OM = Operation & Maintenance   
 YP = YP Award Winner

# BOOTH LISTING

526	360water, Inc.	350	Cla-Val	809	Ferguson Waterworks/Pollard Water	514	INLINER SOLUTIONS	829	Nicholson Construction	718	Sullivan Environmental Technologies
548	540 Technologies	956	Clorox			519	In-Situ			648	Synagro Technologies, Inc.
605	ABB, Inc.	857	Clow Valve Company	906	Ferguson Waterworks/Pollard Water	734	Integrity Municipal Systems	923	OAWWA Membership/ Customer Service Committee	251	Tank Services
204	Aclara - Hubbell Utility Solutions	602	Commerce Controls, Inc.	908	Ferguson Waterworks/Pollard Water	420	Jacobi Carbons, Inc.	939	OAWWA YP Booth (posters in front of Concession)	726	TCI LLC
227	ADS LLC	913	Continental Carbon Group, Inc.	520	FER-PAL Construction	733	JAGS Environmental	921	OAWWA/OWEA D&I Committees	803	Technique Roofing Systems
407	Advance Instruments	325	Core and Main LP.	216	FieldForce	647	JGM Valve Corporation	448	Ohio Utilities Protection Service	613	The Bergren Associates, Inc.
547	Advanced Rehabilitation Technology	649	Corporate Equipment Company/North Shore Pump	932	Flow Gas and Moisture Solutions Inc	403	Jones & Henry Engineers, Ltd.	221	Oreco Water	504	The Henry P. Thompson Co.
954	Advanced Valve Technologies	651	Corporate Equipment Company/North Shore Pump	740	FMX	912	Kamstrup Water Metering	925	OWEA Membership	312	The RootX Company
	Aegion-Insituform Technologies, LLC- Underground Solutions, Inc	748	Corporate Equipment Company/North Shore Pump	446	Fontus Blue, Inc	914	Kamstrup Water Metering	417	Pace Analytical Services, LLC	948	The Vadle - JRC Supplies
855	Aerzen	308	Corrpro Waterworks	409	Ford Hall	318	Kasco marine	515	Parkson Corporation	728	Thompson Pipe Group
808	Akron Electric, Inc.	638	Crane Pumps & Systems	848	George E. Booth Co., LLC	806	Kimley-Horn and Associates, Inc.	629	Pelton Environmental Products, Inc.	927	TMACOG
525	Alloway	502	CWM Environmental a Metiri Group Member	850	George E. Booth Co., LLC	203	Kokosing Solar	507	Penn Valley Pump	634	Tnemec Company, Inc.
306	AMCS Group	406	CXT	315	GeoTree Infrastructure	918	Kraft Power Corporation	802	Peterson Construction	517	Tonka Water/Kurita
721	AMERICAN Ductile Iron/ SpiralWeld Pipe	826	Daman Superior	402	GFS Chemicals	703	Landmark Structures	819	Preload	346	Trihedral Engineering Inc.
805	American Flow Control	838	Delve Underground	208	Gilson Engineering Sales	832	Layne - A Granite Company	820	Primary Flow Signal - Venturi Flowmeters	632	Trinnex
426	American Pump Repair & Service, Inc.	825	Diamond Maps	621	Gorman-Rupp Pumps	321	Lindsay Precast LLC	606	Primex	506	Trojan Technologies, Inc.
709	Anser Advisory	903	Digital Water Solutions	612	GPD Group	451	Logan Clay Products	628	Process Wastewater Technologies	729	TRUMBULL MFG
207	AssetWatch	425	DIPRA	836	Graybar	614	Loprest	514	ProSource Water Products	546	UIS SCADA
725	ATR Automation	320	Dixon Engineering, Inc.	424	Great Lakes Water & Waste Systems, LLC	737	Lovibond	408	Pro-Tech Systems Group	503	Ulliman Schutte Construction, LLC
415	AWI	705	DN Tanks	641	Gripp Inc.	405	Lower 48 Instruments LLC	513	REXA, Inc.	404	United Systems & Software
738	BissNuss, Inc.	535	DRV, Inc.	608	Guardian Environmental/ Triplepoint Environmental	818	M.E. Simpson Co, Inc.	751	Riehl Systems Co.	305	USABLUEBOOK
604	BL Anderson	419	Dugan & Meyers	319	H2flow Controls	524	Maryland Biochemical Company	303	RoviSys	313	USALCO
551	Blue Tank and Pump	712	Duke's	719	Hach	247	MASI Environmental Labs	219	Sartorius Corporation	533	Utility Service Company Inc.
225	BlueConduit	412	Dutchland, Inc	843	Harco Fittings LLC	833	McWane Ductile	741	SAVECO	747	Utility Solutions, Inc.
627	Blue-White Industries, Inc.	418	Dynotec, Inc.	839	Harold Beck & Sons, Inc.	633	McWane Plant & Industrial	743	Schultz Fluid Handling	846	Utility Solutions, Inc.
834	Bonded Chemicals, Inc.	955	EJ Prescott Inc	302	Hartzell Air Movement	911	Microbac Laboratories	626	SEEPEX	915	Utility Technologies LLC
702	Bowen Engineering Corporation	957	EJ Prescott Inc	828	Haviland Products	630	Miller Energy Inc	625	Sentry Water Technologies	427	VEGA Americas
616	Brentwood Industries	539	EJ USA	309	Hawkins Inc.	926	Mississippi Lime Company	953	Share Corporation	531	Veolia Advanced Solutions (Utility Service Co Inc)
326	Buchi Corp	824	Enchanted Rock	742	HK Solutions Group	617	Mixtec	213	Sherwin Williams Company	615	Verder
706	Buckeye Pumps, Inc.	732	Engineered Fluid, Inc.	749	Hobas Pipe USA, Inc.	218	Moody's of Dayton, Inc.	603	Shook Construction	449	W.K. Merriman, Inc.
708	Buckeye Pumps, Inc.	840	Environmental Design Group	618	Huber Technologies, Inc	327	Moody's of Dayton, Inc.	524	Silversmith Data	707	WACO/Orege
512	Buckeye State Pipe	508	EnviroScience, Inc.	804	Hydra-Stop, LLC	905	Mosser Construction, Inc.	902	Skalar, Inc.	727	Water Works Metrology
847	Cage Gear & Machine	549	Eurofins Environment Testing	813	Hydro Controls	307	Motorola Solutions	635	SKS Waterworks, LLC	529	Waterly
624	Calgon Carbon	505	Evoqua Water Technologies	815	hydro controls	904	MSD Environmental Services	849	Smart Earth Technologies	639	Wateropolis Corp.
349	Carboline Global	541	Excel Fluid Group	205	Hydro Dynamics Company	347	Mueller Hymax	643	Smith Environmental Inc.	851	Watertap Inc. (Sub-Contractor)
509	Chaltron Systems Inc.	735	Fairfield Service Company	516	Hydro International	209	Municipal Associates LLC	324	Smith-Blair, a Xylem Brand	704	Watson Marlow/Headworks
933	Charitable Outreach	841	Fats, Oils, & Grease Best Management Plan	924	HydroCorp Cross-Connection Control Program Services	215	Muni-Link	421	Spectrashield Liner Systems	646	Wessler Engineering
		807	Ferguson Waterworks/Pollard Water	527	InfoSense (SL-RAT)	619	National Pump Company	827	StormTrap	950	Westlake Pipe and Fittings
				907	Infratech Solutions LLC	447	Neo Performance Materials	609	Structural Technologies	206	World Water Works
						202	Neptune Equipment Company	714	Sullivan Environmental Technologies	212	Xylem - YSI
						739	NETZSCH	716	Sullivan Environmental Technologies	928	Xylem Leopold
						518	Netzsch Pumps North America, LLC			607	Xylem Water Solutions
						835	New River Engineers, Inc.			724	ZESCO INC. A GALCO COMPANY
						413	Next Turbo				

	A121-A124	A111-A112
	<b>Sustainability</b>	<b>Customer Service</b>
10:45am-11:30am	<p><b>WW Jackson Pike WWTP Cogeneration Facilities: Integrating CHP with Existing Infrastructure</b> Daniel Germant, Arcadis; Todd Krenelka, City of Columbus</p>	<p><b>B Reconnecting With Your "Why": Immersive Understanding of Customer Service</b> Alex Litofsky, OHM Advisors</p>
11:45am-12:30pm	<p><b>B Solar Microgrid Provides Backup Power for Water Booster Station</b> Sara Ernst, Sustainable Columbus, Department of Public Utilities; Jason Roach, City of Columbus; Phil Schmidt, City of Columbus, Division of Water</p>	<p><b>W A Strategic Approach for Replacing Your CIS</b> Brian Schrantz, Del-Co Water Company</p>
	<b>Lab</b>	<b>Drinking Sourcewater</b>
2:30pm-3:15pm	<p><b>B Ensuring Reliable Data with Online Sensors</b> Benjamin Barker, YSI Inc, a Xylem brand</p>	<p><b>W Ultrasound as a Source Water Reservoir Management Strategy to Control Cyanobacteria Blooms</b> Mark Tischer, The Ohio State University</p>
3:30pm-4:15pm	<p><b>WW PFAS Analysis in Nonpotable Waters by EPA 8327: Challenges and Outcomes</b> Xiaochun Yu, Northeast Ohio Regional Sewer District; Debmalya Bhattacharyya, Northeast Ohio Regional Sewer District</p>	<p><b>W Ultrasonic Treatment of Harmful Algal Blooms</b> Skylar Reed, City of Newark, NJ - Department of Water &amp; Sewer; Felipe Contreras Jimenez, Kleinfelder</p>
4:30pm-5:15pm	<p><b>W Evaluating Field Analyzers for Lead Testing in School Drinking Water</b> Lauren Wasserstrom, Jacobs; Dawn Webb, Greater Cincinnati Water Works</p>	<p><b>W Columbus Hoover Dam Project: Maintaining Critical Water Supply through a Major Capital Upgrade</b> Bill Porteus, ms consultants, inc.; C.R. Weaver, City of Columbus</p>

	A210-A212	A213-A215
	<b>Pretreatment</b>	<b>Stormwater</b>
	<p><b>WW Developing an Industrial Pretreatment Program from the Ground Up</b> Loren Gormley, Geosyntec Consultants; Elizabeth Toot-Levy, Geosyntec Consultants</p>	<p><b>B Leveraging 2D Modeling in Retrofitting a Flooding Neighborhood</b> Alex Vieira, Hazen and Sawyer; Eric Onderak, Coldwater Consulting, LLC; William Glenn, City of Columbus, Dept of Sewerage and Drainage</p>
	<p><b>W What is a Toxicity Reduction Evaluation?</b> Elizabeth Wick, EnviroScience, Inc.</p>	<p><b>WW Level of Service Policy for Stormwater Capital Improvement Projects</b> Miles Hebert, EMH&amp;T; Fang Cheng, City of Columbus</p>
	<b>Residuals/Recovery</b>	<b>DEI/Workforce Development</b>
	<p><b>WW Two Birds, One Stone: Utilizing Biosolids Thermal Processing Technologies for PFAS removal</b> Stephanie Spalding, HDR</p>	<p><b>B The Great Culture Shift: Prioritizing DE&amp;I</b> Donnell Duncan, Arcadis</p>
	<p><b>W A Moving Target: PFAS Residuals Management</b> Kwasi Amoah, Stantec; Liz Garvey, Stantec</p>	<p><b>B 20 Years of Knowledge Capture! Tools, Procedures, and Protocols Used at DPU for Staff Sustainability</b> Laura Tegethoff, 360water, Inc.; Stacia Eckenwiler, City of Columbus; Beth Darnell, City of Columbus DPU</p>
	<p><b>WW Addressing High-Risk Aging Infrastructure Through a Thorough and Defensible Planning Process</b> Joshua Hensley, Jacobs</p>	<p><b>B Developing A Water Workforce Training and Placement Program Through Regional Collaboration</b> Charles Campbell, City of Toledo</p>

**Early Bird Session**  
7:45-8:30am

A213-A215

**WW** **Planning for Columbus' Fourth Water Plant**  
**OM** Bret Casey, Hazen and Sawyer; David Opferman, City of Columbus

A213-A215

**Water Treatment**

**W** **Evaluating and Implementing Surface Modified Clay for PFAS Removal: From Bench Test to Start-up**  
**OM** Scott Grieco, Jacobs

A121-A124

**Wastewater Treatment**

**WW** **Akron BioCEPT - Dealing with the Demons in a Demonstration Study**  
**OM** Brian Gresser, Burgess & Niple; Stephen Baytos, City of Akron

A113-A115

**Water Distribution**

**W** **Identifying the Adsorption of Specific Natural Organic Matter Components to Powdered Activated Carbon**  
**OM** Yuzhou Huang, The Ohio State University  
**YP**

**Early Bird Session**  
7:45-8:30am

A121-A124

**W** **A New Front Door: Replacing Akron's Original 1920's Era Sewer Bridge and Outgrown Headworks Facility**  
**OM** Andrew Toussant, City of Akron; Steve Baytos, City of Akron; Dave Frank, Arcadis

A210-A212

**Wastewater Collections**

**WW** **Devastation to Optimization and Everything In-between - Greene County, Ohio Lift Station Elimination**  
**OM** Adam, Athmer, Strand Associates, Inc.; Kenneth Stewart, Greene County Sanitary Engineering Department

A111-A112

**Utility Management**

**B** **Columbus and Intel: Planning for Utility Growth in Central Ohio**  
**X** Brian Haemmerle, City of Columbus; Stacia Eckenwiler, City of Columbus

A220-A222

**Asset Management**

**W** **Developing Water Service Inventories for Small and Medium Sized Water Systems**  
**OM** Nicholas Bouthilette, Stantec; Brendan O'Brien, Stantec

**W** **Greene Forward - Clean, Soft, Reliable Water for Greene County, Ohio**  
**OM** Eric Rees, Shook Construction; John Krinks, AECOM; Bradley Olson, Arcadis

**WW** **Weak In Worked Out**  
**OM** Robert Smith, Black & Veatch, Jon van Dommelen, Ohio EPA

**W** **Lead Service Line Replacement: Managing the Unknowns and reducing costs through Public Outreach**  
**OM** Luke Murry, GPD Group  
**YP**

**WW** **Newark South Second Street: Unlocking the Benefits After a Decade of Sewer Separation Projects**  
**OM** Brandon Fox, City of Newark, Division of Water and Wastewater; Stephanie Weagraff, Arcadis

**W** **Implementing An Advanced Metering System**  
**OM** Kevin Knisley, City of Columbus

**B** **We Found What We Were Looking For: MSD's Asset Inventory and Condition Assessment Journey**  
**OM** Ben Swain, Brown and Caldwell

**W** **Integrating a UV Disinfection Facility within Existing Plant Processes and Footprint**  
**OM** C.R. Weaver, City of Columbus, Erin Stachler, CDM Smith; Michael Giangordano, Jacobs; Scott Lockhart, City of Columbus

**WW** **Creative Solutions Achieve Compliance for Less Capital Dollars: A Case Study from Rocky River WWTP**  
**OM** Nick Barille, Rocky River WWTP; Corinne Sackett, Hazen and Sawyer; Joe Sicurezza, Brown and Caldwell  
**YP**

**W** **Keeping Up With Steel Transmission Mains in Akron**  
**OM** Rob Hrusovsky Jr., Burgess & Niple; Bill Marchand, City of Akron

**WW** **Steps to ensure Successful Startup of Large Pump Stations**  
**OM** Vito Cimino, Stantec; Vincent Beach, Stantec

**B** **Program Management for the Modern Age**  
**X** Dax Blake, Arcadis

**B** **Data-Driven Risk Assessments Result in Meaningful Capital Improvement Plans**  
**X** Nina Duerk, Strand Associates; Adam Athmer, Strand Associates

**W** **City of Defiance Water Treatment Plant GAC Facility**  
**OM** Justin Batt, Stantec

**WW** **Increasing Wet Weather Treatment Despite Encountering Many Challenges**  
**OM** Anthony Farina, Hazen and Sawyer

**W** **Emergency Water Line Over Ohio River Offers Lessons in Design, Construction, and Operations for All**  
**OM** Kris Ruggles, Strand Associates, inc.

**WW** **Machine Learning in the Real World for Predictive Operational Forecasting**  
**OM** Chris Ranck, Black & Veatch

**B** **More than Metrics: Enhancing Northeast Ohio Regional Sewer District's Customer Assistance Programs**  
**X** Constance Haqq, Northeast Ohio Regional Sewer District; Carol Malesky, Stantec

**W** **Condition Analysis Study for Ductile and Cast Iron Watermain Piping Deterioration**  
**OM** David Reimer, City of Miamisburg; Jason Abbott, Arcadis



A213-A215	A121-A124	A113-A115
Water Treatment	Wastewater Treatment	Water Distribution
<p><b>W</b> Removing PFAS with Reverse Osmosis Membranes: A Case Study of Two Water Plants in Southeast Ohio Robert Shoaf, Shoaf Consulting, LLC; John Huck, Putnam Community Water Corporation</p> <p><b>OM</b></p>	<p><b>WW</b> Sludge Drying - Controlling Disposal Options for an Uncertain Future Jamie Mills, Strand Associates, Inc.</p> <p><b>OM</b></p>	<p><b>W</b> What Happens When Everything Goes Wrong on a Large Diameter Valve Replacement Project? Phil Schmidt, City of Columbus</p> <p><b>OM</b></p>
<p><b>W</b> Optimizing Microorganism Inactivation, Repair Inhibition, and Electrical Efficiency of Multi-wavelength and Alternative-energy UV Daniel Ma, The Ohio State University</p> <p><b>OM</b></p> <p><b>YP</b></p>	<p><b>WW</b> Innovative Use of Zeta Potential to Optimize Coagulation in Tertiary Filtration at Valparaiso, IN Isabelle Hammer, Stantec; Emily Saban, Stantec</p> <p><b>OM</b></p>	<p><b>W</b> The Challenges of Extending Water Mains Through a Developed Community Tyler Converse; Canton Water Department; Brent Burrier, Canton Water Department</p> <p><b>OM</b></p>
<p><b>W</b> Akron Water Supply's Integration of a Virtual Tool to Support Operator Chemical Dosing Decisions Mark Brown, City of Akron; Atie Amirgol, Fontus Blue</p> <p><b>OM</b></p>	<p><b>WW</b> Nutrient Removal Operations-A Compilation of Lessons Learned Over 30 Years Jamie Mills, Strand Associates, Inc.</p> <p><b>OM</b></p>	<p><b>W</b> Part 1 - AQUA Ohio - Struthers Division Water System Expands to Solve Campbell Water Woes - Study Nicholas Sanford, AQUA Ohio; Kenneth Day, PE, DBIA, 12 Point Consulting, LLC; Alan Frygier, CT Consultants</p> <p><b>OM</b></p>

2:30pm-3:15pm

3:30pm-4:15pm

4:30pm-5:15pm

A210-A212	A111-A112	A220-A222
Wastewater Potpourri	Operations & Maintenance	Regulatory
<p><b>WW</b> Navigating the Progressive Design Build Process at OECC WRF Brad Stanton, Delaware County Regional Sewer District; Chad Dunn, Arcadis; Matthew Noelker, Peterson Construction</p> <p><b>OM</b></p>	<p><b>W</b> Dealing with HABs: Ozone Treatment Considerations at High pH Conditions Aswathi Pradeep, Black &amp; Veatch; Brian Loudenslager, City of Toledo</p> <p><b>OM</b></p>	<p><b>WW</b> Biological and Water Quality Assessment the Scioto and Olentangy Rivers Chris Yoder, Midwest Biodiversity Institute</p> <p><b>OM</b></p>
<p><b>WW</b> Leveraging Digital Tools to Implement the City of Wapakoneta I/I Reduction Project Dempsey Ballou, Jacobs; Justin Waid, City of Wapakoneta</p> <p><b>OM</b></p>	<p><b>B</b> Shedding Light on Standby Power Improvements Arvin Kasyouhanan, Arcadis; C.R. Weaver, City of Columbus; Gary Pittman, City of Columbus</p> <p><b>OM</b></p>	<p><b>WW</b> Constructing a Large Diameter CSO Tunnel Launch Shaft in a Former Municipal Solid Waste Fill Courtney McVay, Black &amp; Veatch; Clint Wilson, Black &amp; Veatch; Jeremy Cawley, City of Columbus</p> <p><b>OM</b></p>
<p><b>WW</b> Strategic or Luck - How Value Engineering Laid the Foundation for Economic Growth Michael Keller, EMH&amp;T; Ryan Ohly, City of New Albany; Cory Svatosky, EMH&amp;T</p> <p><b>OM</b></p>	<p><b>WW</b> PFAS Considerations for Wastewater Professionals and Understanding Potential Impacts in Wastewater Kevin Custer, Pace Analytical Services, LLC</p> <p><b>OM</b></p>	<p><b>B</b> To Protect or Not to Protect: The Changing Definitions of Waters of the U.S. Matthew Petty, Civil &amp; Environmental Consultants (CEC)</p> <p><b>OM</b></p>

# THURS. | August 24

EPA Updates	Union Station Ballroom AB
8:00-8:45am	<b>WW DSW Update</b> OM Ashley Ward, Ohio EPA; Joby Jackson, Ohio EPA
9:00-9:45am	<b>W DDAGW Update</b> OM Amy Klei, Ohio EPA

A213-A215	A113-A115	A210-A212
Regulatory	Construction	Potpourri
<b>WW Maumee Watershed General Permit for TP TMDL Implementation</b> OM Walter Ariss, Ohio EPA; Ryan Gierhart, Ohio EPA	<b>W Hap Cremean Water Plant Concrete Rehabilitation: Challenges from Assessment through Construction</b> OM Mark Eppich, City of Columbus; Arnol Gillum, Hatch Associates	<b>WW Performance Assessment of Conventional and Emerging Technologies for PFAS Treatment in Landfill Leac</b> OM Gary Hunter, Black & Veatch
<b>B PFAS: A Utility's Practical Response</b> OM Glenn Marzluf, Del-Co Water Company	<b>WW Sewer Construction Permits, Complexities, &amp; Tips -Newark's Fourth Street Combined Sewer Separation</b> OM Adam Bernard, City of Newark Division of Water and Wastewater; Kurt Kinney, Arcadis	<b>W Prioritizing Lead Pipe Replacement</b> OM Max Linder, University of Cincinnati; Xavier Yozwiak, University of Cincinnati
<b>W Avoid Pitfalls with Lead and Copper Rule Revisions Compliance</b> OM Emily Tummons, Black & Veatch	<b>WW Phased Commissioning of a New Headworks Facility Including 280 MGD Temp. Pumping, Lessoned Learned</b> OM Corbin Sweat, City of Akron; Steve Baytos, City of Akron; Kathryn DeMuesy, Anser Advisory	<b>W Looking At Data With a New Lens: Using PowerBi To Evaluate Algae</b> OM Tracy Kump, Greater Cincinnati Water Works

Ethics	A213-A215
1:15-2:15pm	<b>B The Ohio Ethics Law: Can I Do That?</b> X Susan Willeke, Ohio Ethics Commission
2:30pm-3:30pm	<b>B Ethics in Professional Practice</b> X Ted Bennett, Jones & Henry Engineers

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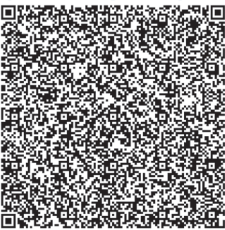
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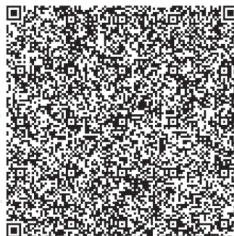
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