



	SOURCEWATER	TREATMENT	UTILITY/ASSET MANAGEMENT
7:50 - 8:20 AM	<b>Unique Tunnel Riverbank Filtration System Works to Supply Louisville with Filtered Water</b> Henry Hunt, <i>Layne</i>	<b>Innovative Upgrades to a 53 Year Old WTP for HABs, Crypto and Whatever Else the Maumee River Brings</b> Rob Shoaf, <i>AECOM</i> ; Scott Hoover, <i>City of Napoleon</i>	<b>City of Columbus DOW Vulnerability Assessment</b> Sarah Moore, <i>City of Columbus</i> ; Kurt Kinney, <i>Arcadis</i>
8:20 - 8:30 AM	BREAK	BREAK	BREAK
8:30 - 9:00 AM	<b>Michigan City DOWW West Intake Extension</b> Stan Diamond, <i>Wessler Engineering</i>	<b>Cleveland Water Treatability Study for Cuyahoga River Dredging Material</b> Chuck Smith & Scott Moegling, <i>Cleveland Water</i>	<b>Managing Generational Attitudes in the Utility Workforce</b> Roy Mundy, <i>McWane, Inc.</i>
9:00 - 9:10 AM	BREAK	BREAK	BREAK
9:10 - 9:40 AM	<b>Bio-Inspired Robotics and Open-Water Filtration Mechanisms for Harmful Algal Bloom Mitigation</b> Brian Trease & Adam Schroeder, <i>University of Toledo</i>	<b>Toledo Collins Park WTP 40 MGD Plant Addition Design Considerations and Challenges</b> Kurt Smith & Jack Kane, <i>Arcadis</i> ; Jim Donnell, <i>City of Toledo</i>	<b>The Three R's of Water System Operation: Renewal, Redundancy and Readiness</b> Karen Hawkins & Lance Livesay, <i>City of Fairborn</i>
9:40 - 9:50 AM	BREAK	BREAK	BREAK
9:50 - 10:20 AM	<b>Cyanotoxin Incidence and Control</b> Nick Burns, <i>Black &amp; Veatch</i> ; Warren Henry & Andy McClure, <i>City of Toledo</i>	<b>You Can't Make This Stuff Up - Water Quality Calls</b> Scott Moegling & Chuck Smith, <i>Cleveland Water</i>	<b>Asset Management Required Space Needed</b> Brad Lowery, <i>Jones &amp; Henry Engineering</i> ; Jake Goetz, <i>City of Toledo</i> ; Andy Welch, <i>Thomas Porter Architects</i>
10:20 - 10:30 AM	BREAK	BREAK	BREAK
10:30 - 11:00 AM	<b>Use of Real-Time Sondes to Support HABs Monitoring</b> Ed Verhamme, <i>LimnoTech</i>	<b>Innovative Approach to Expanding the Olentangy WTP</b> Bret Casey, <i>Hazen and Sawyer</i> ; Spencer Sheldon, <i>Del-Co Water</i>	<b>The Art of Water Rate Setting in a Water Utility</b> Ramesh Kashinkunti, Verna Arnette & Cathy Bailey, <i>Greater Cincinnati Water Works</i>
11:00 - 11:10 AM	BREAK	BREAK	BREAK
11:10 - 11:40 AM	<b>Applications of CO3: Removing Contaminants of Emerging Concern by UV/NO3-/HCO3 in Water Reuse and Detoxification</b> Ying Huang, <i>University of Cincinnati</i>	<b>Don't Let Manganese Become Your Boogeyman</b> Bob Hulsey, <i>Black &amp; Veatch</i>	<b>De-Mystifying Effective Asset Management Programs</b> Bryan Dickerson, <i>Black &amp; Veatch</i>
	DISTRIBUTION	TREATMENT	CUSTOMER SERVICE
1:20 - 1:50 PM	<b>Flint's Path to Distribution System Optimization</b> Rebecca Slabaugh & James Cooper, <i>Arcadis</i>	<b>HHACP: An Outcome -Focused Process Control Approach</b> Matt Charles, Troy Walker & Ben Standford <i>Hazen and Sawyer</i>	<b>Diversifying Customer Service</b> Abby Arnold, <i>City of Toledo</i>
1:50 - 2:00 PM	BREAK	BREAK	BREAK
2:00 - 2:30 PM	<b>Proactive Control KPI - Quantifying a Utility's Ability to Respond to Disruptions</b> Dave Lewis, <i>Wachs Water Services</i>	<b>The Use of UV / Peroxide for Treating Algal Derived Contaminants</b> Terry Keep, <i>Trojan UV</i>	<b>Diversifying Customer Service (continued)</b> Abby Arnold, <i>City of Toledo</i>
2:30 - 2:40 PM	BREAK	BREAK	BREAK
2:40 - 3:10 PM	<b>Uni-Directional Flushing: Is it worth it? Benefits and Lessons Learned from a Pilot Program</b> Christie Ogino & Dante Fiorino, <i>Brown and Caldwell</i>	<b>Hands-on Upgrade - The City of Painesville Water Treatment Plant's Approach to Upgrading their Filter Valves and Controls</b> Tim McCann, <i>AECOM</i> ; Frank McKeon, <i>City of Painesville</i>	<b>Community Services Available to Utility Customers</b> Cheryl Grice, <i>Pathways</i>
3:10 - 3:20 PM	BREAK	BREAK	BREAK
3:20 - 3:50 PM	<b>Home Plumbing Simulator for the Study of Copper and Lead Corrosion and Release, Disinfectant Demand, Biofilm Activity and General Water Quality</b> Darren Lytle, <i>USEPA</i>	<b>Effect of Biofilm Formation on the Removal of MC-LR in Granular Activated Carbon Filters</b> Youchul Jeon, <i>University of Toledo</i>	<b>Updating Your Technology without Losing Your Staff or Your Mind (Panel)</b> Diana Steck, <i>My Software Solutions</i> ; Ray Schwarz, <i>NECO Water</i> ; Caryn Dachner, <i>City of Westerville</i> ; Kelly O'Brien, <i>City of Toledo</i>
3:50 - 4:00 PM	BREAK	BREAK	
4:00 - 4:30 PM	<b>Current Technologies in Water Loss Management</b> Mark Beatty, <i>Utility Technologies</i>	<b>Operations and Construction Support for Successful Commissioning and Year One Operations of Ozone Treatment</b> Mike Giangiardano, <i>CH2M</i> ; Scott Lockhart, <i>City of Columbus</i>	
4:30 - 4:40 PM	BREAK	BREAK	
4:40 - 5:10 PM	<b>Air Valves Can Create Significant Pressure Spikes! System Studies On Pressure Spikes Related To Air Valves</b> Ravi Ravisangar & Brett Farver, <i>Brown and Caldwell</i>	<b>Making Ready for Change</b> Andy McClure, <i>City of Toledo DPU</i>	

	REGULATORY	DISTRIBUTION	COLLINS PARK WTP TOUR
7:50 - 8:20 AM	<b>Ohio EPA DDAGW Update</b> Beth Messer, <i>Ohio EPA</i>	<b>Influence of Algal Organic Matter on Biofilm and DBP Formation in Simulated Water Distribution System</b> Lei Li, <i>University of Toledo</i>	  <p>Participants will meet at the Park Inn loop during the 10:20-10:30 technical session break. There is no on-site parking at the Collins Park Plant due to construction. Attendees can expect to be dropped off to Park Inn by 1:30 pm.</p> <p>The Collins Park WTP Tour is worth 2.0 contact hours.</p>
8:20 - 8:30 AM	BREAK	BREAK	
8:30 - 9:00 AM	<b>Illinois Takes on Lead in Schools, Could Ohio be Next?</b> John Donahue, <i>North Park Public Water District</i>	<b>The Pressure to Provide Pressure: Critical Upgrades to the Columbus Water Distribution SCADA System</b> Phil Schmidt & John Gilmore, <i>City of Columbus</i>	
9:00 - 9:10 AM	BREAK	BREAK	
9:10 - 9:40 AM	<b>Distribution System Disruption Update</b> Andy Barienbrock, <i>Ohio EPA</i>	<b>The Facts about Tank Diving Evaluations or Someone is Swimming in Your Tank... How safe are they and YOU??</b> Jennifer Coon, <i>Tank Industry Consultants</i>	
9:40 - 9:50 AM	BREAK	BREAK	
9:50 - 10:20 AM	<b>Current and Future Opportunities Available Through Ohio's Drinking Water SRF Program</b> Jerome Rouch, <i>Ohio EPA</i>	<b>Improve Efficiency, Maximize Useful Life, Optimize Ease of Operation - Factors that Control Large Capacity/High Horsepower Pump Upgrades</b> Matt Leach & Mike Giangjordano, <i>CH2M</i> ; Mark Eppich, <i>City of Columbus</i>	
10:20 - 10:30 AM	BREAK	BREAK	
10:30 - 11:00 AM	<b>Ohio Community Engineering Corps project in Grover Hill, Ohio</b> Dan Barr, <i>ms consultants</i>	<b>Subaqueous HDPE Pipeine Projects</b> Travis Clower, <i>Integrity Aquatic</i>	
11:00 - 11:10 AM	BREAK	BREAK	
11:10 - 11:40 AM	<b>Hot Topics with Ohio EPA, Including Manganese and Corrosion Control</b> Susan Schell, <i>Ohio EPA</i>	<b>Water Distribution System - Analyzing the Impacts of Removing an Elevated Storage Tanks</b> Julio Williams, <i>Environmental Design Group</i> ; Tony Demsai, <i>City of Cuyahoga Falls</i>	

## WEDNESDAY VENDOR PRESENTATIONS

10:20 - 10:50 AM	<b>Calgon Treating Cyanotoxins with Granular Activated Carbon</b> Kendra Ryan, <i>Calgon Carbon Corp</i>
11:30 AM - 12:00 PM	<b>Recycled Water: A New Source for Private Water Systems</b> Missy Hayes & Michelle Matty, <i>Tangent Company</i>
1:00 - 1:30 PM	<b>A New Method of Monitoring Corrosion in Drinking Water Distribution Systems on a Real-Time Basis</b> John Walsh, <i>InstantMPY LLC</i>
2:10 - 2:40 PM	<b>Innovative Surface Water Plant Filter Control and Optimization Solutions</b> Jason Nord, <i>Industrial Control Systems</i>

## WEDNESDAY EDUCATIONAL BOOTH TOURS

### Booth Tour #1 - Hydrant Maintenance

Jeff Shivers, Clow Valve Company | Luke Darby, EJ | Jason Snell, Mueller Company

### Booth Tour #2 - Meters and More...

Ray Schwarz, NECO | Dan Miller, Pelton Environmental | Mike Carr, Quest

### Booth Tour #3 - Pipes, Part I

Daryl Bowling, SUEZ | Chris Van Wormer, FER-PAL Construction | Hardin Stephens, Mid America Pipe Fabricating & Supply

### Booth Tour #4 - Pipes, Part II

Jim Graber, Cla-Val | Dan Haines, Tnemec Coating Consultants | Jason Ross, MidAmerican Technology

### Booth Tour #5 - Water Treatment Trends

James Gray, Calgon Carbon Corp | Wei Zhang, ASA Chemsan | Christopher Miller, Fontus Blue

### Booth Tour #6 - New in Technology

Mark Beatty, Utility Technologies | Troy Roberts, SEDC | Jamie Yarger, Pro-Tech Systems Group

### Booth Tour #7 - Lab Process & Equipment

Eric Link, LabtronX | Paul Besenti, EarthTec | Ted Simmons, Hach

### Booth Tour #8 - Innovations in Energy, Fuel Storage and Project Management

Scott Hinsch, DRV | David Warner, Warner Diesel Filtration | Marc Bobby, Critical Business Analysis

Start	End	BOOTH TOURS							
10:45 AM	11:45 AM	#1		#3		#5		#7	
10:45 AM	11:45 AM		#2		#4		#6		#8
12:45 PM	1:45 PM	#1		#3		#5		#7	
1:55 PM	2:55 PM		#2		#4		#6		#8
3:05 PM	4:05 PM	#1		#3		#5		#7	
4:15 PM	5:15 PM		#2		#4		#6		#8

## TUESDAY RESEARCH WORKSHOP

8:00 AM - 8:20 AM	<b>Registration, Welcome &amp; Introductions</b>
8:20 AM - 9:05 AM	<b>Vertical Movements of HABs in Western Lake Erie</b> Thomas Bridgeman, <i>University of Toledo</i>
9:05 AM - 9:15 AM	<i>Break</i>
9:15 AM - 10:00 AM	<b>Phosphorus and Lake Erie: Perspectives From Between the Land and Lake</b> Laura Johnson, <i>Heidelberg University</i>
10:00 AM - 10:20 AM	<i>Break</i>
10:20 AM - 11:05 AM	<b>Combining Advanced Molecular Techniques and Near Real-Time Instrumentation to Monitor CyanoHABs and Microcystins in Lake Erie</b> Tim Davis, <i>Bowling Green State University</i>
11:05 AM - 11:15 AM	<i>Break</i>
11:15 AM - 12:00 PM	<b>Use of a Multi-plex qPCR Assay as a Cyanotoxin Screening Tool for Ohio Public Water Systems and Inland Lakes</b> Heather Raymond, <i>Ohio EPA</i>
12:00 PM - 1:00 PM	<i>Lunch (included)</i>
1:00 PM - 1:45 PM	<b>Microbial Pathogens in Source and Treated Waters From Drinking Water Treatment Plants in the United States and Implications for Human Health</b> Stacy Pfaller, <i>USEPA</i>
1:45 PM - 1:55 PM	<i>Break</i>
1:55 PM - 2:40 PM	<b>Manganese Compliance</b> Susan Schell, <i>Ohio EPA</i>
2:40 PM - 3:00 PM	<i>Break</i>
3:00 PM - 3:45 PM	<b>Lead in Drinking Water: Research Update</b> Darren Lytle, <i>USEPA</i>
3:45 PM - 3:55 PM	<i>Break</i>
3:55 PM - 4:40 PM	<b>The New MDL Procedure How To's</b> Marcy Bolek, <i>Alloway</i>
4:40 PM - 5:00 PM	<i>Wrap-Up and Questions</i>