



### Full Program

#### Saturday, 14 August 2021

7:00pm-9:00pm **Officers Dinner (Invitation Only)** (Public House (1110 Market St))

#### Sunday, 15 August 2021

10:00am-12:00pm	<b>CCC Meeting Room 9-10</b>	<b>CCC Meeting Room 16-17</b>
	<b>AWWA Board Meeting</b>	<b>CWP-KT Board Meeting</b>
11:30am-6:00pm	<b>Registration Open (Sunday)</b> (CCC North Prefunction)	
11:30am-4:00pm	<b>Exhibitor Setup</b> (CCC Exhibit Hall)	
1:00pm-4:30pm	<b>FACILITY TOUR</b>	<b>FACILITY TOUR</b>
	<b>CW-Meet Buses at CCC (Carter St)</b>	<b>CCC Meeting Room 11</b>
	<b>1011</b> <i>City of Chattanooga Moccasin Bend Wastewater Treatment Facility</i> Chris Mills, City of Chattanooga; Xavier Pedeux, Jacobs	<b>1012</b> <i>Tennessee American Water Company, Citico Water Treatment Plant Tour</i> Jason Campbell, TAW; Kitty Vaughn, TAW; Kimberly Pritchett, TAW
1:00pm-4:00pm	<b>Water For Life Event (and People's Choice Water Tasting Competition)</b> (Coolidge Park)	
2:00pm-4:00pm	<b>Utility Leadership Forum (Invitation Only)</b> (CCC Meeting Room 9-10)	
5:00pm-7:00pm	<b>Meet &amp; Greet Reception</b> (CCC Exhibit Hall)	

7:00am-5:00pm

**Registration Open (Monday)** (CCC North Prefunction)

7:00am-9:00am

**Coffee Bar (Monday)**

8:00am-5:00pm

CCC Meeting Room 9-10	CCC Meeting Room 16-17
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**AWWA Committee Meetings (Monday)**

**CWP-KT Committee Meetings (Monday)**

8:00am-3:00pm

**Speaker Ready Room Open (Monday)** (CCC Meeting Room 8)

8:00am-10:00am

**Continental Breakfast/Opening Session/Awards** (CCC Banquet Room)

9:30am-12:00pm

**Exhibit Hall Open (Monday AM)** (CCC Exhibit Hall)

10:00am-10:30am

**Break (Monday AM)**

10:30am-11:00am

OTHER/SPECIAL TOPICS	REGULATORY UPDATE KY	SMALL SYSTEMS	MODELING/PLANNING	DRINKING WATER QUALITY	STORMWATER	COLLECTIONS	BIOSOLIDS / WATER RESOURCE RECOVERY	WATER SUPPLY	CONSTRUCTION: ALTERNATIVE DELIVERY
CCC Meeting Room 2	CCC Meeting Room 3	CCC Meeting Room 4	CCC Meeting Room 5	CCC Meeting Room 6	CCC Meeting Room 11	CCC Meeting Room 12	CCC Meeting Room 13	CCC Meeting Room 14	CCC Meeting Room 15
<b>2011</b> <i>Crescent Hill WTP - High Service PS 36" Gate Valve Replacement</i> Kevin Brian, HDR Engineering, Inc.	<b>2111</b> <i>KY Drinking Water Update</i> KDOW Staff, KDOW	<b>2211</b> <i>Please Don't Rain - Temporary Biological Treatment Lessons Learned</i> Cole Mitcham, Kentucky American Water Company; John Martin, GRW Engineers, Inc.; Nicholas Gunselman, GRW Engineers, Inc.	<b>2311</b> <i>Maximizing your Sewer Model Update: City of Frankfort Hydraulic Modeling</i> Kristen Benick, Arcadis U.S., Inc.; Elizabeth Coyle, Coyle & Associates (with Frankfort Sewer Department); Sue Pressman, Arcadis U.S., Inc.; Khaled Abdo, Arcadis U.S., Inc.	<b>2411</b> <i>Distribution Network THM Mitigation in Consecutive and Wholesale Water Systems</i> Tom Caulfield, UGSI Solutions	<b>2511</b> <i>Staying High and Dry: Flood Mitigation on the Mississippi River</i> Clayton Foster, Barge Design Solutions	<b>2611</b> <i>Chattanooga's Real Ironman Challenge: Improving Reliability for Critical Assets</i> Trent Hollis, Burns & McDonnell	<b>2711</b> <i>Regionalizing Biosolids Operations to Share Risk</i> Ted Hull, Brown and Caldwell	<b>2811</b> <i>Bourbon and Water Don't Mix - Water System Response to Bourbon Spill in River</i> Dorothy Rader, Kentucky American Water; Dorothy Johnson, Kentucky American Water	<b>2911</b> <i>LMSD MFWQTC Emergency Dryer Replacement Project</i> David Osborne, Hazen and Sawyer; Kyle Novak, Hazen and Sawyer; Sharon Worley, Louisville MSD

11:00am-11:30am

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<b>2012</b> <i>Microplastics photodegradation: An implication for water resources protection</i> Gholamreza Bonyadinejad, Department of Civil Engineering, University of	<b>2112</b> <i>KY Clean Water Update</i> KDOW Staff, KDOW	<b>2212</b> <i>The Appalachian Community Technical Assistance and Training Program</i> Donna McNeil, Kentucky	<b>2312</b> <i>Ecological Flows Modeling for Water Management and Regulatory Assessment</i> Saya Qualls-Hickey, Hazen and Sawyer; Danielle Jones, Hazen and Sawyer;	<b>2412</b> <i>Improving the Resilience of Municipal Water Treatment Under a Changing Climate</i>	<b>2512</b> <i>Navigating FEMA Flood Zones</i> Tara Mallison, LDA Engineering	<b>2612</b> <i>Engineering a Solution to Remediate FOG, Prevent Concrete Corrosion &amp; Treat Odor</i> Patrick Resch, Vapex Environmental	<b>2712</b> <i>Design consideration and challenges of treating PFAS laden sludge</i> Sudhakar Viswanathan, Veolia Water Technologies	<b>2812</b> <i>Algae and Cyanotoxin Source to Treatment Update for Toledo's Collins Park WTP</i> Paul Hargette,	<b>2912</b> <i>Leveraging Alternative Delivery to Achieve the City of Memphis's Vision</i> Yari Hernandez, CDM Smith;

Memphis, Memphis, TN, USA; Maryam Salehi Esfandarani, Department of Civil Engineering, University of Memphis, Memphis, TN, USA; Farhad Jazaei, Department of Civil Engineering, University of Memphis, Memphis, TN, USA		Water Resources Research Institute; Lindell Ormsbee, Kentucky Water Resources Research Institute	Casey Caldwell, Hazen and Sawyer	Pamela Hoover, Vanderbilt University; Janey Camp, Vanderbilt University				Black & Veatch; Amanda Canida, Black & Veatch; Nick Burns, Black & Veatch	Zack Daniel, CDM Smith; Scott Morgan, City of Memphis Public Works
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11:30am-12:00pm

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<b>2013</b> <i>Embracing Diversity and Inclusion</i> Kimberly Strong, City of Chattanooga	<b>2113</b> <i>KY Legislative Update</i> Wesley Sydnor, Louisville MSD	<b>2213</b> <i>Small But Mighty - Economical Upgrades to Meet Tight Nutrient Limits at a Small</i> Karen Harrison, Water Management Services	<b>2313</b> <i>Planting Trees: Master Planning for Water &amp; Wastewater Utilities</i> Logan Dickinson, Goodwyn, Mills and Cawood; John Raiford, Goodwyn, Mills and Cawood	<b>2413</b> <i>Proactive Monitoring Protocol for HABs, T&amp;O Compounds, and Cyanotoxins</i> Hunter Adams, CITY OF WICHITA FALLS; Mark Southard, City of Wichita Falls; Sam Reeder, City of Wichita Falls; Randall Barker, City of Wichita Falls; Daniel Nix, City of Wichita Falls; Savannah Judge, Yokogawa Fluid Imaging Technologies	<b>2513</b> <i>Grassy Creek Stormwater Master Plan Tackles Neighborhood Flooding</i> Kathleen Smith, Hazen and Sawyer; Chris Reichle, Hazen and Sawyer; Alice Godsey, City of Perrysburg; Dustin West, Hazen and Sawyer	<b>2613</b> <i>Construction Challenges Associated with Two Wet Weather Storage Facilities</i> Amanda Dobbs, Gresham Smith; Kenneth Stewart, Gresham Smith	<b>2713</b> <i>Start-up and Performance Overview of Aerobic Granular Sludge at Wolf Creek WWTP</i> Paula Dorn, Aqua-Aerobic Systems, Inc.	<b>2813</b> <i>What Can Kentucky and Tennessee Learn from Other State's Water Planning Efforts?</i> John Boyer, CDM Smith	<b>2913</b> <i>Harpeth Valley Utilities District East Transmission Main Phase 2 - CMAR Delivery</i> Kevin Brian, HDR Engineering, Inc.; Jeff Seal, Garney Construction

12:00pm-1:30pm

**Awards Luncheon** (CCC Banquet Room)

1:00pm-6:30pm

**Exhibit Hall Open (Monday PM)** (CCC Exhibit Hall)

1:30pm-2:00pm

PHILANTHROPY	REGULATORY UPDATE TN	DISTRIBUTION	SAFETY & SECURITY	EXTERNAL AFFAIRS	STORMWATER	COLLECTIONS	MANAGEMENT	DRINKING WATER EMERGING ISSUES	CONSTRUCTION: ALTERNATIVE DELIVERY
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<b>2021</b> <i>Water For People Update</i> Luke Williams, Water for People	<b>2121</b> <i>TN Drinking Water Update</i> David Money, TDEC	<b>2221</b> <i>Creating Resiliency Under Pressure</i> Beau Mackie, CDM Smith; Robert Hirt, Town of Cary Public Utilities	<b>2321</b> <i>CITY OF MARYVILLE - USING STAFF RESOURCES FOR ARC FLASH STUDY DATA COLLECTION</i> Glenn Hanson, LDA Engineering	<b>2421</b> <i>Trending in an Instant: A Risk Communication Guide for Water Utilities</i> Kelley Dearing Smith, Louisville Water Company	<b>2521</b> <i>MSD's Federal Environmental Partnerships and Strategy Update - Three Forks Study</i> Erin Wagoner, Louisville & Jefferson County MSD; Wolfie Miller, Louisville & Jefferson County MSD	<b>2621</b> <i>Overflow-Free DREAMS - Dissecting Rehab Efforts At McEwen</i> Luke Burris, Barge Design Solutions; Rick Forehand, Barge Design Solution	<b>2721</b> <i>A New Paradigm through Human-Centric Digital Upgrades</i> Katie Umberg, Arcadis	<b>2821</b> <i>Avoiding Crisis: Preparing to Meet the Lead and Copper Rule Revisions</i> Tom Bruns, 120Water	<b>2921</b> <i>Massac Creek Phase III - permits, property owners and problems</i> Mike Hansen, HDR Engineering, Inc.
PHILANTHROPY	REGULATORY UPDATE TN	DISTRIBUTION	SAFETY & SECURITY	EXTERNAL AFFAIRS	STORMWATER	COLLECTIONS	MANAGEMENT	DRINKING WATER EMERGING ISSUES	CONSTRUCTION: ALTERNATIVE DELIVERY
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<b>2022</b> <i>Mobile Emergency Water Treatment Capability</i> Mark Hogg, WaterStep	<b>2122</b> <i>TN Clean Water Update</i> Jennifer Dodd, TDEC	<b>2222</b> <i>Improve your Isolation Valve Layout and Increase your Reliability</i> Erika Hernandez, Arcadis; Lindell Ormsbee, University of Kentucky	<b>2322 - NO SESSION SCHEDULED</b>	<b>2421 - continued</b>	<b>2522</b> <i>Memphis' Resolve to Increased Flooding Concerns</i> John Heard, HDR	<b>2622</b> <i>Leveraging Multiple Data Sources to Maximize Value - Clarksville TN Model Update</i> Seth Bradley, Hazen and Sawyer; Ethan Hypes, Hazen and Sawyer; Ryan Dean, Hazen and Sawyer	<b>2722</b> <i>Clear Chattanooga-Chattanooga's Consent Decree Program Update</i> Michael Marino, Jacobs; Jeff Rose, City of Chattanooga	<b>2822</b> <i>Advanced Treatment Pilot Testing for Removal of PFAS and Emerging Contaminants</i> Bill Dowbiggin, CDM Smith	<b>2922</b> <i>Preparing for PAA: Designing for Disinfection at Chattanooga's CSOTFs</i> Ashley Griffin, Brown and Caldwell; Shane Shepard, Brown and Caldwell; Kati Bell, Brown and Caldwell; Dan Davis, Brown and Caldwell
PHILANTHROPY	REGULATORY UPDATE TN	DISTRIBUTION	SAFETY & SECURITY	EXTERNAL AFFAIRS	STORMWATER	COLLECTIONS	MANAGEMENT	DRINKING WATER EMERGING ISSUES	CONSTRUCTION: ALTERNATIVE DELIVERY
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<b>2023</b> <i>Addressing water scarcity challenges in the Inca Sacred Valley</i> Josh Rivard, Center for Infrastructure	<b>2123</b> <i>TN Legislative Update</i> Saya Qualls-Hickey, Hazen and Sawyer	<b>2223</b> <i>Flying blind no more: Specific Energy at the Murfreesboro WTP</i> Mike Bernard, Specific Energy; Alan	<b>2323</b> <i>The Cybersecurity Black Box - How to Verify Control Systems Are Cyber Secure</i> Mike McGill, WaterPIO	<b>2423</b> <i>Preparing for the New Lead &amp; Copper Rule's Public Communication Challenges</i> Mike McGill, WaterPIO	<b>2523</b> <i>Infrastructure and Urban Planning for an Effective Stormwater Management Program</i>	<b>2623</b> <i>Jack Daniels &amp; GIS-How Paper Maps Drove a Man to Drink-Metro Lynchburg Utilities</i>	<b>2723</b> <i>The Power of Culture in Running a Utility</i> Sarah Chandler, Jackson Thornton &	<b>2823</b> <i>PFAS - What to Know, Where to Look, Why its so Difficult, How to Respond</i>	<b>2923</b> <i>Smart Sewer Operations: How Chattanooga, TN Plans To Solve Its SSO Problem</i>

2:00pm-2:30pm

2:30pm-3:00pm

Research at UofL; Thomas Rockaway, University Of Louisville; Mary Andrade, University of Louisville	Cranford, Murfreesboro Water Resources Department	David Ubert, CDM Smith Inc.	Aujuah Jackson, City of White House	Travis Wilson, LJA Engineering; Russell Sells, Lynchburg Metro Utility Department	Co; Kena Hyers, First Utility District of Knox County; Chloe Pool, First Utility District of Knox County	Brent Tippey, HDR	Tony Kinder, City of Chattanooga; Xavier Pedeux, Jacobs
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3:00pm-6:00pm **Tapping Competition (Demonstration)** (CCC Exhibit Hall)

3:00pm-4:30pm **Ice Cream Social (Monday)** (CCC Exhibit Hall)

4:00pm-6:00pm	CCC Exhibit Hall	CCC Exhibit Hall
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**Exhibitor Cocktail Hour**

**Next Round Brewing Beer Tasting**

4:00pm-5:00pm **Tap Water Taste Test Competition** (CCC Exhibit Hall)

7:00am-2:00pm

**Registration Open (Tuesday)** (CCC North Prefunction)

7:00am-9:00am

**Coffee Bar (Tuesday)**

7:00am-8:30am

**Awards Breakfast** (CCC Banquet Room)

7:45am-4:45pm

**Speaker Ready Room (Tuesday)** (CCC Meeting Room 8)

8:00am-5:00pm

CCC Meeting Room 9-10

CCC Meeting Room 16-17

**AWWA Committee Meetings (Tuesday)**

**CWP-KT Committee Meetings (Tuesday)**

8:00am-1:30pm

**Exhibit Hall Open (Tuesday)** (CCC Exhibit Hall)

8:45am-9:15am

WORKFORCE/CULTURE	MANAGEMENT	WATER RESOURCE RECOVERY (formerly WASTEWATER TREATMENT)	COLLECTIONS	CLEAN WATER EMERGING ISSUES	LABORATORY	CLEAN WATER: ENGINEERING & CONSTRUCTION	DRINKING WATER TREATMENT	WATER LOSS/NON-REVENUE WATER	DISTRIBUTION WATER QUALITY
CCC Meeting Room 2	CCC Meeting Room 3	CCC Meeting Room 4	CCC Meeting Room 5	CCC Meeting Room 6	CCC Meeting Room 11	CCC Meeting Room 12	CCC Meeting Room 13	CCC Meeting Room 14	CCC Meeting Room 15
<p><b>3011</b> <i>Fostering Innovation Everyday and for Everyone</i> Joanna Brunner, Arcadis</p>	<p><b>3111</b> <i>Test Drive Before You Buy – A Tale of Chattanooga’s THP Piloting Experience</i> Stephanie Kopec, Stantec Consulting Services, Inc; Terry Coffel, Moccasin Bend Wastewater Treatment Facility, City of Chattanooga; Nicole Stephens, Stantec Consulting Services, Inc.; Sudhakar Viswanathan, Veolia; Jeff Rose, Moccasin Bend Wastewater Treatment Facility, City of Chattanooga; Michael McWhirter, Stantec Consulting Services, Inc.</p>	<p><b>3211</b> <i>Reuse of Effluent requires High Level UV treatment for Class A Biosolids process</i> Bruce Stevens, Aquionics; Robert Wierzbicki, PC Construction; Gary Jeral, Aquionics</p>	<p><b>3311</b> <i>Troubleshooting to Optimize Pumping System Performance</i> Patrick Moore, Barge Design Solutions</p>	<p><b>3411</b> <i>A Multi-Pronged Approach for Managing PFAS in WRRFs</i> Kelly Landry, Hazen and Sawyer; Stephanie Ishii, Hazen and Sawyer; Mohammad Abu-Orf, Hazen and Sawyer; Erik Rosenfeldt, Hazen and Sawyer; Wendell Khunjar, Hazen and Sawyer</p>	<p><b>3511</b> <i>A Lab perspective: Regulatory Permit Limits and Requirements</i> Daymond Talley, Louisville MSD</p>	<p><b>3611 - NO SESSION SCHEDULED</b></p>	<p><b>3711</b> <i>PFAS Adsorption: Lessons Learned</i> Casey Theys, Calgon Carbon Corporation</p>	<p><b>3811</b> <i>Pressure Transient Monitoring Reduces Leaks and Main Breaks at WWA of Wilson Cou</i> John Abrera, Brown and Caldwell; Chris Leauber, Water and Wastewater Authority of Wilson County TN; John Smith, Water and Wastewater Authority of Wilson County TN; Erin Culbertson, Brown and Caldwell</p>	<p><b>3911</b> <i>Investigate the Impacts of Schools Closure on Lead Release to drinking water</i> Shima Ghoochani, University of Memphis; Dave DeSimone, University of Memphis; Linkon Bhattacharjee, University of Memphis; Mitra Salehi Esfandarani, University of Memphis; Maryam Salehi, University of Memphis</p>

9:00am-12:00pm

**Student Poster Competition** (Exhibit Hall Prefunction)

9:15am-9:45am

WORKFORCE/CULTURE	MANAGEMENT	WATER RESOURCE RECOVERY (formerly WASTEWATER TREATMENT)	COLLECTIONS	CLEAN WATER EMERGING ISSUES	LABORATORY	CLEAN WATER: ENGINEERING & CONSTRUCTION	DRINKING WATER TREATMENT	WATER LOSS/NON-REVENUE WATER	DISTRIBUTION WATER QUALITY
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<p><b>3012</b> <i>Next Level Leadership &amp; Management for the New Era</i> Peter Atherton, ActionsProve, LLC</p>	<p><b>3112</b> <i>Allocating Sanitary Sewer Service: Balancing Development Density with Available</i> Darren Gore, City of Murfreesboro, TN</p>	<p><b>3212</b> <i>Physical Modeling to Optimize Wetwell Design</i> Christopher Bentley, CDM Smith; Carl Frizzell, CDM Smith</p>	<p><b>3312</b> <i>Winning the War Against Wipes</i> Joe Clark, JWC Environmental</p>	<p><b>3412</b> <i>Nutrient Intensification: Achieving Better Results with Fewer Resources</i> Ali Teymouri, Brown and Caldwell; Andrew Smith, Brown and Caldwell; Pusker Regmi, Brown and Caldwell</p>	<p><b>3512</b> <i>Your Lab - Under New Management</i> London Oberleas, Smyrna Wastewater Treatment Plant</p>	<p><b>3612</b> <i>SARP10 Stream Stabilization Projects, Memphis, Tennessee</i> Adrian Ward, Barge Design Solutions</p>	<p><b>3712</b> <i>Building a Solid Foundation for Water Plant Solid Needs</i> Chris Lambert, Clarksville Gas &amp; Water; Rob Lantz, Smith Seckman Reid, Inc.</p>	<p><b>3812</b> <i>Nose to the Ground: Canine Leak Detection as a tool for Water Loss Management</i> Seth W. Rye, P.E., Rye Engineering</p>	<p><b>3912</b> <i>Improving Water Quality by Identifying and Eliminating Hazardous Dead-Ends</i> Brad Gresham, Wachs Water Services, a Xylem Brand</p>

9:45am-10:15am

WORKFORCE/CULTURE	MANAGEMENT	WATER RESOURCE RECOVERY (formerly WASTEWATER TREATMENT)	COLLECTIONS	CLEAN WATER EMERGING ISSUES	LABORATORY	CLEAN WATER: ENGINEERING & CONSTRUCTION	DRINKING WATER TREATMENT	WATER LOSS/NON-REVENUE WATER	DISTRIBUTION WATER QUALITY
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<p><b>3013</b> <i>Go with the Flow: Monitoring Burnout and the Route to Avoid It</i> Eddie Wade, Croy Engineering</p>	<p><b>3113</b> <i>Preparing Wastewater Utilities For PFAS Regulations</i> Joshua Balentine, Brown and Caldwell; Kati Bell, Brown and Caldwell</p>	<p><b>3213</b> <i>New Primary Bio-Filter Achieves High-Rate Treatment for Wet-Weather Inflows</i> Joseph Goergen, ARTP, Genesee County Drain Commissioner-WWS; Jon Liberzon, Tomorrow Water (BKT); David Rhu, Tomorrow Water (BKT); Glen Daigger, Department of Civil &amp; Environmental Engineering-University of Michigan</p>	<p><b>3313</b> <i>Coordination, Communication, and COVID-19 - LFUCG UK Trunk Sewer C, D, &amp; E</i> Stephanie Blain, Palmer Engineering; Worth Ellis, Palmer Engineering; Robert Peterson, LFUCG Division of Water Quality</p>	<p><b>3413</b> <i>Implementation of CMAR for a Complex Headworks Rehabilitation and Expansion</i> Powell Hinson, Carollo Engineers; Sanaan Villalobos, Carollo Engineers</p>	<p><b>3513</b> <i>Quality Assurance-Corrective Action (Step 9 of the 12 Steps of QA)</i> Brett Ward, UT-MTAS</p>	<p><b>3613</b> <i>Modeling and Testing Methods for Submersible Pumps in Extreme Deep Applications</i> Michael Rudisell, HDR Engineering, Inc.; Jacob Mathis, Louisville MSD</p>	<p><b>3713</b> <i>A New Era for Drinking Water for Dalton</i> Bill Hamilton, Barge Design Solutions; Raymond Cordon, Barge Design Solutions</p>	<p><b>3813 - NO SESSION SCHEDULED</b></p>	<p><b>3913</b> <i>Distribution System Water Quality - Implementation of Active Tank Mixing</i> Tom Caulfield, UGSI Solutions; Andy Seidel, UGSI Solutions</p>

10:00am-11:00am **WPC20/WPC21 Planning Committee Transition Meeting (Invitation Only)** (CCC Meeting Room 16-17)

10:15am-10:30am **Break (Tuesday AM)**

10:30am-11:00am

CUSTOMER RELATIONS	BIOSOLIDS	OTHER/SPECIAL TOPICS	WATER RESOURCE RECOVERY (formerly WASTEWATER TREATMENT)	COLLECTIONS	INDUSTRIAL PRETREATMENT	SYSTEM MANAGEMENT	DRINKING WATER TREATMENT	ASSET MANAGEMENT	DRINKING WATER: ENGINEERING & CONSTRUCTION
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<p><b>3021</b> <i>Meter Tampering</i> Kerri Wagner, Consolidated Utility District of Rutherford County; Kimberly Davenport, Consolidated Utility District of Rutherford County</p>	<p><b>3121</b> <i>Progressive Design Build Helps MSD Accelerate Solids Management Improvements</i> N. Aaron Thompson, Black &amp; Veatch; Jonathan Steflik, Black &amp; Veatch Corporation; Alex Novak, Louisville MSD</p>	<p><b>3221</b> <i>Integrating Water Reuse into Utility Planning in Kentucky and Tennessee</i> Scott Alpert, Hazen and Sawyer</p>	<p><b>3321</b> <i>Bledsoe County Correctional Complex Wastewater Treatment Plant Expansion</i> Neal Hall, CTI Engineers, Inc.</p>	<p><b>3421</b> <i>Taking Out "Flushable" Wipes: A Case Study on Eliminating Pump Cleanouts</i> Mark Hickok, Duperon Corporation; Steve Dill, Duperon Corporation; Megan Fenstermaker, Duperon Corporation</p>	<p><b>3521</b> <i>State Updates from TDEC and KDEP</i> Laurel Rognstad, TDEC; Chuck Durham, PG Environmental</p>	<p><b>3621</b> <i>Extreme Makeover... SCADA System Edition</i> Brent Cunningham, Jacobs Engineering; David Mitchell, City of Chattanooga TN</p>	<p><b>3721</b> <i>Collaborative Approach to Define Process Advancements and Achieve Consensus</i> Justin Bowling, Metro Water Services (Nashville, TN); Heather Crabtree, Metro Water Services (Nashville, TN); Glen Doss, Metro Water Services (Nashville, TN)</p>	<p><b>3821</b> <i>Emerging Uses of GIS and Technology to Support Utility Asset Management</i> Jayson Brennen, CDM Smith</p>	<p><b>3921</b> <i>Controlling and Securing a Greenfield Water Treatment Plant in the 21st Century</i> Chris Cherry, Clarksville Gas &amp; Water; Der'Ivan Kelly, Smith Seckman Reid, Inc.</p>

11:00am-11:30am

CUSTOMER RELATIONS	BIOSOLIDS	OTHER/SPECIAL TOPICS	WATER RESOURCE RECOVERY (formerly WASTEWATER TREATMENT)	COLLECTIONS	INDUSTRIAL PRETREATMENT	SYSTEM MANAGEMENT	DRINKING WATER TREATMENT	ASSET MANAGEMENT	DRINKING WATER: ENGINEERING & CONSTRUCTION
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<p><b>3022</b> <i>Preparing for Biden-Era Policy Pivots with Utility Management Perspectives</i> Sheryl Chino, HDR; Ameerah Palacios, HDR</p>	<p><b>3122</b> <i>Biosolids Program at M.C. Stiles WWTP, Memphis, TN - Development and Startup</i> Wade Yankey, Material Matters, Inc.</p>	<p><b>3222</b> <i>Generating As-built When None Exist</i> Greg Sanford, OHM Advisors</p>	<p><b>3322</b> <i>Innovative Phased Activated Sludge System for Biological Nutrient Removal</i> Manuel de los Santos, Aqua-Aerobic Systems, Inc.</p>	<p><b>3422</b> <i>Consent Decree Compliance: Halfway there, Project Case Studies from LFUCG-DWQ</i> Kurt Zehnder, Hazen and Sawyer; Bob Peterson, LFUCG Division of Water Quality</p>	<p><b>3522</b> <i>EPA Update</i> David Phillips, USEPA</p>	<p><b>3622</b> <i>City of Kingsport SCADA Upgrades</i> Greg Czerniejewski, CDM Smith; Dave Ubert, CDM Smith</p>	<p><b>3722</b> <i>Once in a Lifetime - Water Flowing from a Greenfield Water Treatment Plant</i> Phillip Whittinghill, Clarksville Gas &amp; Water; Luke Williams, Smith Seckman Reid, Inc.</p>	<p><b>3822</b> <i>GIS - What Type of User Are You? What Type Do You Want to Be?</i> James Albert, LDA Engineering</p>	<p><b>3922</b> <i>Construction and Startup of TN American Water's Upgraded Flocculation-Sedimenta</i> David Bible, Stantec; Grady Stout, Tennessee American Water</p>

11:30am-12:00pm

CUSTOMER RELATIONS	BIOSOLIDS	OTHER/SPECIAL TOPICS	WATER RESOURCE RECOVERY	COLLECTIONS	INDUSTRIAL PRETREATMENT	SYSTEM MANAGEMENT	DRINKING WATER TREATMENT	ASSET MANAGEMENT	DRINKING WATER:
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			(formerly WASTEWATER TREATMENT)						ENGINEERING & CONSTRUCTION
CCC Meeting Room 2	CCC Meeting Room 3	CCC Meeting Room 4	CCC Meeting Room 5	CCC Meeting Room 6	CCC Meeting Room 11	CCC Meeting Room 12	CCC Meeting Room 13	CCC Meeting Room 14	CCC Meeting Room 15
<b>3023</b> <i>Cybersecurity - Water Utility Focus</i> Michael Sumner, Consolidated Utility District	<b>3123</b> <i>Tapping food waste to develop a net positive resource recovery facility</i> Sudhakar Viswanathan, Veolia Water Technologies; Thomas Darby, Hermitage Municipal Authority; Jason Wert, Rettew	<b>3223</b> <i>Alternative Geotechnical Exploration Techniques for Underground Utilities</i> Eric Gasielki, ECS Southeast, LLP	<b>3323</b> <i>Steps to Diagnose Your Grit Problems and Optimize Grit Removal System Design</i> Teri Raasch, Carollo Engineers; Walid Karam, Carollo Engineers; Mary-Ellen Esquer, Carollo Engineers	<b>3423</b> <i>Hitting the Bulls Eye through Cleveland Utilities' SCOPE10 I/I Removal Program</i> Travis Wilson, LJA Engineering; Greg Clark, Cleveland Utilities	<b>3523</b> <i>The CWF and Production-Based Standards - Revisited</i> Chuck Durham, PG Environmental	<b>3623</b> <i>Real-time Software for Distribution Systems: An Operator-Focused Design Approach</i> Justin Bowling, Metro Water Service (Nashville, TN); Samantha White, Metro Water Service (Nashville, TN); Jim Uber, Xylem; Sam Hatchett, Xylem; Marcelo Cusacovich, Xylem; Srinivas Kulkarni, Xylem	<b>3723</b> <i>DETERMINING A TREATMENT TECHNOLOGY FOR GROUNDWATER IMPACTED BY PFAS</i> Jim Benjamin, Layne Christensen Company	<b>3823</b> <i>More Than Just the Kentucky Derby: Smart Asset Management at KAW's Workhorse WTP</i> Ross Guffey, HDR; Krista Citron, Kentucky American Water Company	<b>3923</b> <i>Anything but Boring - Designing and Constructing a New Raw Water Tunnel</i> Kyle Mangum, Barge Design Solutions, Inc.; Joe Schrank, McMillen Jacobs Associates

12:00pm-1:30pm

CCC Exhibit Hall	Marriott Plaza C	Marriott East/West Room
<b>Lunch Buffet</b>	<b>5-S Luncheon (Invitation Only)</b>	<b>WPLA Luncheon (Invitation Only)</b>

1:30pm-4:00pm

**Exhibitor Move-Out (CCC Exhibit Hall)**

1:30pm-2:00pm

CUSTOMER RELATIONS	GREEN INFRASTRUCTURE	OTHER/SPECIAL TOPICS	WATER RESOURCE RECOVERY (formerly WASTEWATER TREATMENT)	REHABILITATION - CW	INDUSTRIAL PRETREATMENT	STUDENTS	CLEAN WATER TECHNOLOGY	DRINKING WATER TREATMENT	DRINKING WATER QUALITY
CCC Meeting Room 2	CCC Meeting Room 3	CCC Meeting Room 4	CCC Meeting Room 5	CCC Meeting Room 6	CCC Meeting Room 11	CCC Meeting Room 12	CCC Meeting Room 13	CCC Meeting Room 14	CCC Meeting Room 15
<b>3031</b> <i>Policy in a pandemic: Letting customers know importance of water during a crisis</i> Ann Abrams, Louisville Water Company;	<b>3131</b> <i>Addressing Tomorrow's Stormwater Challenges Through Hybrid Infrastructure</i> Jacob Dorman, Contech Engineered Solutions; Chris Allen, Contech	<b>3231</b> <i>Conversion of a former Farm Pond to Meet Dam Safety Compliance Requirements</i> David Mason, CDM Smith	<b>3331</b> <i>IFAS UPGRADES COMING TO A CITY NEAR YOU</i> Chandler Johnson, World Water Works, Inc	<b>3431</b> <i>Manhole Rehabilitation in Cleveland, TN</i> Jeff Woodcock, Spectra Tech LLC	<b>3531</b> <i>How PFAS Regulations May Impact Pretreatment Programs</i> Laurel Rognstad, Brown and Caldwell	<b>3631</b> <i>What I Wasn't Taught in School - Starting a Job During a Pandemic</i> Serena Hostetter, Smith Seckman Reid, Inc.	<b>3731</b> <i>Emerging Technology: Adaptable Screening for Resilient Hydraulic Design</i> Mark Hickok, Duperon Corporation; Bryce Funchion,	<b>3831</b> <i>Long-Term Piloting of Pretreatment and Microfiltration in Columbia TN</i> Matthew Charles, Hazen and Sawyer; Jonathan Hardin,	<b>3931</b> <i>Critical WTF's Project Implementation to Mitigate Risk &amp; Ensure Resiliency</i> Heather Crabtree, Metro Water Services; Glen Doss, Metro Water Services

Kelley Dearing Smith, Louisville Water Company; Erika Brown, Louisville Water Company	Engineered Solutions						Duperon Corporation; Megan Fenstemaker, Duperon Corporation	Columbia Power and Water Systems; Alissa Diminich, Inflo Design Group; Joanna LeMieux, Suez	
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2:00pm-2:30pm

CUSTOMER RELATIONS	GREEN INFRASTRUCTURE	OTHER/SPECIAL TOPICS	WATER RESOURCE RECOVERY (formerly WASTEWATER TREATMENT)	REHABILITATION - CW	INDUSTRIAL PRETREATMENT	STUDENTS	CLEAN WATER TECHNOLOGY	DRINKING WATER TREATMENT	DRINKING WATER QUALITY
CCC Meeting Room 2	CCC Meeting Room 3	CCC Meeting Room 4	CCC Meeting Room 5	CCC Meeting Room 6	CCC Meeting Room 11	CCC Meeting Room 12	CCC Meeting Room 13	CCC Meeting Room 14	CCC Meeting Room 15
<b>3032</b> <i>Improving Revenue Collections for Utilities</i> Gary Sanders, Edmunds GovTech	<b>3132</b> <i>Moccasin Bend's Green Future</i> Chris Palmer, Jacobs; Jeffrey Rose, City of Chattanooga	<b>3232</b> <i>Modeling for Success: Upgrading Lagoon Based Treatment Systems</i> Mark Rasor, Lemna Environmental Technologies, Inc.	<b>3332</b> <i>Reducing Chemical Costs While Consistently Achieving Compliance Using Automation</i> Victoria Reuvers, EOSI	<b>3432</b> <i>Ring the Bell - Bell Buckle vs I/I, How the Fight Was Won</i> Travis Wilson, LJA Engineering; Ronnie Lokey, Town of Bell Buckle - Mayor	<b>3532</b> <i>Metal Finishing Operations and Treatment Technology</i> Chuck Durham, PG Environmental	<b>3632</b> <i>Student Chapter Updates</i> Hugh Harris, Tennessee Tech; Maci Arms, Tennessee Tech; Sam Kessler, University of Louisville; Lea Mitchell, Western Kentucky University	<b>3732</b> <i>Memphis Two-Step: Comparing the World's Largest PAA Disinfection Systems</i> Jacob Van Geffen, CDM Smith	<b>3832</b> <i>Building Resilience and Overcoming Rare Source and Plant Issues in Owensboro</i> Brent Tippey, HDR; Russ Evans, OMU	<b>3932</b> <i>A Water Quality Resiliency Plan - Cultivating Critical Customers</i> Will Willis, Louisville Water Company; Vince Monks, Louisville Water Company

2:30pm-3:00pm

CUSTOMER RELATIONS	GREEN INFRASTRUCTURE	OTHER/SPECIAL TOPICS	WATER RESOURCE RECOVERY (formerly WASTEWATER TREATMENT)	REHABILITATION - CW	INDUSTRIAL PRETREATMENT	STUDENTS	CLEAN WATER TECHNOLOGY	DRINKING WATER TREATMENT	DRINKING WATER QUALITY
CCC Meeting Room 2	CCC Meeting Room 3	CCC Meeting Room 4	CCC Meeting Room 5	CCC Meeting Room 6	CCC Meeting Room 11	CCC Meeting Room 12	CCC Meeting Room 13	CCC Meeting Room 14	CCC Meeting Room 15
<b>3033</b> <i>A Good Flush: Collaboration Creates an Important Water Quality Message</i> Kelley Dearing Smith, Louisville Water Company; Peter Goodmann, Louisville Water Company	<b>3133</b> <i>Gray and Green Infrastructure Provides Benefits for Kansas City Sewer Separation</i> Brian Clow, Carollo Engineers, Inc	<b>3233</b> <i>Louisville MSD COVID Response</i> Wesley Sydnor, Louisville & Jefferson County MSD; Paul Maron, Strand Associates, Inc.	<b>3333</b> <i>Teaching an Old Dog New Tricks - Optimizing WW Chlorine Disinfection Systems</i> CDM Smith	<b>3433</b> <i>Oak Ridge Sanitary Sewer Rehab Approach</i> Cory Newman, LDA Engineering; Jason Brooks, LDA Engineering	<b>3533</b> <i>Pretreatment Enforcement</i> Yatasha Moore, PG Environmental; Jane Leatherland, Humboldt Utilities	<b>3632 - continued</b>	<b>3733</b> <i>Unlocking Treatment Capacity using Densified Activated Sludge</i> Alyssa Mayer, Hazen and Sawyer	<b>3833</b> <i>Pass on the Pepto, We Have UV</i> Patrick Bollman, P.E., Evoqua	<b>3933</b> <i>Planning for Implementation - Maximizing Funding to Make Resiliency Happen</i> Boone Proffitt, Arcadis

3:00pm-4:30pm

**Ice Cream Social (Tuesday)** (CCC North Rotunda)

3:00pm-3:15pm

**Break (Tuesday PM)**

3:15pm-3:45pm

EXTERNAL COMMUNICATIONS	ASSET MANAGEMENT	ENGINEERING & CONSTRUCTION	CLEAN WATER TECHNOLOGY	SUSTAINABILITY	INDUSTRIAL PRETREATMENT	YOUNG PROFESSIONALS	FINANCE/MANAGEMENT	DRINKING WATER QUALITY	DATA ANALYTICS
CCC Meeting Room 2	CCC Meeting Room 3	CCC Meeting Room 4	CCC Meeting Room 5	CCC Meeting Room 6	CCC Meeting Room 11	CCC Meeting Room 12	CCC Meeting Room 13	CCC Meeting Room 14	CCC Meeting Room 15
<p><b>3041</b> <i>We're Still Here: Outreach in a Virtual World</i> Channa Newman, Louisville Water</p>	<p><b>3141</b> <i>Advances in SW CA and Inventory Methods for Resiliency &amp; Accuracy</i> David Elliott, Brown and Caldwell</p>	<p><b>3241</b> <i>Subaqueous Outfall Line Installation within Melton Hill Reservoir</i> Zack Bloomfield, Garney Companies, Inc.; Jim Reese, West Knox Utility District</p>	<p><b>3341</b> <i>Automating Lab Methods for Continuous Process and Effluent Discharge Monitoring</i> Derek Walker, Hach Company; Lance Williams, Hach Company; Terry Smith, Hach Company</p>	<p><b>3441</b> <i>Free solar? Well, almost.</i> John Barnett, Metro Water Services; David Adams, Wilmot Inc.</p>	<p><b>3541 - NO SESSION SCHEDULED</b></p>	<p><b>3641</b> <i>YP Speaker</i> Joseph Sahl, US Army Corp of Engineers; Kate Macindoe, YP Committee Co-Chair; Seth Dobyns, YP Committee Co-Chair</p>	<p><b>3741</b> <i>Funding Project Dreams - A Success Story for Memphis and WIFIA Funding</i> Zack Daniel, CDM Smith; Sarah Stewart, CDM Smith; Scott Morgan, City of Memphis Public Works</p>	<p><b>3841</b> <i>The Trouble with Manganese - Controlling Dissolved Metals in Water Treatment</i> Scott Alpert, Hazen and Sawyer; Caleb Sanders, Hazen and Sawyer</p>	<p><b>3941 - NO SESSION SCHEDULED</b></p>

3:45pm-4:15pm

EXTERNAL COMMUNICATIONS	ASSET MANAGEMENT	ENGINEERING & CONSTRUCTION	CLEAN WATER TECHNOLOGY	SUSTAINABILITY	INDUSTRIAL PRETREATMENT	YOUNG PROFESSIONALS	FINANCE/MANAGEMENT	DRINKING WATER QUALITY	DATA ANALYTICS
CCC Meeting Room 2	CCC Meeting Room 3	CCC Meeting Room 4	CCC Meeting Room 5	CCC Meeting Room 6	CCC Meeting Room 11	CCC Meeting Room 12	CCC Meeting Room 13	CCC Meeting Room 14	CCC Meeting Room 15
<p><b>3042</b> <i>Protecting and Educating Our Newest Assets</i> Kelli Lee, Hardin County Water District No. 2</p>	<p><b>3142</b> <i>Innovation through Asset Management</i> Taylor Hagood, LDA Engineering; Fadi Khayatt, Metro Water Services</p>	<p><b>3242</b> <i>Construction and Commissioning of New Chemical Facilities through COVID-19</i> Austin Thore, Kentucky American Water; David Laliberte, Hazen and Sawyer</p>	<p><b>3342</b> <i>Three Advantages of Closed Vessel UV Disinfection that Pay Off</i> Patrick Bollman, P.E., Evoqua</p>	<p><b>3442</b> <i>Food Waste to Energy: Co-Digestion of Municipal and Organic Wastes and its Benef</i> Dustin Craig, CDM Smith; Laurel Schaich, CDM Smith</p>	<p><b>3542</b> <i>Understanding the Basics of Local Limits</i> Joshua Balentine, Brown and Caldwell</p>	<p><b>3641 - continued</b></p>	<p><b>3742</b> <i>The Price is Right</i> Andrew Clark, Barge Design Solutions; Jarred Reber, Barge Design Solutions</p>	<p><b>3842</b> <i>How we Did It Ourselves-The Silver Creek Water Corp Study</i> Scott Ham, Silver Creek Water Corp; Thom Tackman, Kasco Marine; Lucy Allen, Kasco Marine</p>	<p><b>3942</b> <i>Data-driven Distribution Flushing: Leveraging Technology for a Targeted Approach</i> Casey Doyle, Louisville Water Company; Tim Joice, Louisville Water Company; Vince Monks, Louisville Water Company</p>

4:15pm-4:45pm

EXTERNAL COMMUNICATIONS	ASSET MANAGEMENT	ENGINEERING & CONSTRUCTION	CLEAN WATER	SUSTAINABILITY	INDUSTRIAL PRETREATMENT	YOUNG PROFESSIONALS	FINANCE/MANAGEMENT	DRINKING WATER	DATA ANALYTICS
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	TECHNOLOGY					QUALITY			
CCC Meeting Room 2	CCC Meeting Room 3	CCC Meeting Room 4	CCC Meeting Room 5	CCC Meeting Room 6	CCC Meeting Room 11	CCC Meeting Room 12	CCC Meeting Room 13	CCC Meeting Room 14	CCC Meeting Room 15
<b>3043</b> <a href="#">A Picture Says 1000 Words: Using Video to Encourage Stormwater Runoff Prevention</a> Jennifer Myatt, Lexington-Fayette Urban County Government; Angela Poe, Lexington-Fayette Urban County Government	<b>3143</b> <a href="#">How Rural Communities Can Do More With Less</a> Mark Grabowski, ITpipes	<b>3243</b> <a href="#">Bank Destabilization – Preserving Access to the Knob Creek Wastewater Plant</a> Reuben Robertson, LDA Engineering	<b>3343</b> <a href="#">Enhanced Treatment Plant Operations Through Digital Water</a> Gary Hunter, Black & Veatch; Ben Cownie, Black & Veatch Corporation; Grant Smith, Black & Veatch Corporation	<b>3443</b> <a href="#">Turning Biosolids Green with Raleigh's Bioenergy Recovery Project</a> Amy Hanna, Hazen and Sawyer; Michael Bullard, Hazen and Sawyer; Aaron Brower, City of Raleigh Public Utilities; TJ Lynch, City of Raleigh Public Utilities	<b>3543</b> <a href="#">Pretreatment Trivia</a> Yatasha Moore, PG Environmental; Chuck Durham, PG Environmental	<b>3643</b> <a href="#">YP Networking Ice Breaker</a> Kate MacIndoe, SSR; Seth Dobyns, Guthrie Sales & Service	<b>3743</b> <a href="#">Project Funding with BRIC – FEMA's New Mitigation Program Lessons Learned</a> Kari Mackenbach, ms consultants, inc.	<b>3843</b> <a href="#">Recent Changes to NSF Std. 60 &amp; 61: Implications for the Potable Water Industry</a> Randy Moore, TNEMEC Company, INC>; Justin Taute, Tnemec	<b>3943</b> <a href="#">Implementing a Smart Water Network and Data Analytics at the City of Memphis</a> Joshua Balentine, Brown and Caldwell; Tasha King-Davis, City of Memphis, TN; John Abrera, Brown and Caldwell; Kati Bell, Brown and Caldwell

5:00pm-6:00pm **Social Hour (hosted by YP Committee - All are welcome!)** (Naked River Brewing)

6:00pm-10:00pm **Member Celebration** (Chattanooga Brewing Co.)

## Wednesday, 18 August 2021

7:00am-2:00pm **Charity Golf Tournament (Preregistration Required)** (Bear Trace at Harrison Bay (8919 Harrison Bay Road, Harrison, TN 37341))

7:30am-8:30am **Continental Breakfast** (CCC North Prefunction)

8:30am-10:00am	WORKSHOP - CLEAN WATER	WORKSHOP - DRINKING WATER
	CCC Meeting Room 3	CCC Meeting Room 4
<b>4011</b> <a href="#">Workshop - Clean Water: Clear Chattanooga, Part I</a> Mike Marino, Jacobs; Xavier Pedoux, Jacobs; Brent Cunningham, Jacobs		<b>4111</b> <a href="#">Workshop - Drinking Water: Tennessee American, Part I</a> David West, Tennessee American Water; Bret Lavey, Stantec; Caroline Archer, Tennessee American Water; Grady Stout, Tennessee American Water

10:00am-10:30am **Break (Wednesday)**

10:30am-12:00pm	WORKSHOP - CLEAN WATER	WORKSHOP - DRINKING WATER
	CCC Meeting Room 3	CCC Meeting Room 4
<b>4021</b> <a href="#">Workshop - Clean Water: Clear Chattanooga, Part II</a> Mike Marino, Jacobs; Xavier Pedoux, Jacobs; Brent Cunningham, Jacobs		<b>4121</b> <a href="#">Workshop - Drinking Water: Tennessee American, Part II</a> Tyler Cross, Tennessee American Water; Justin Bolender, HDR; Grady Stout, Tennessee American Water; Michael Griffith, Tennessee American Water