

Technical Program - Sunday, August 18, 2019			Technical Program - Sunday, August 18, 2019							Technical Program - Monday, August 19, 2019			
SUN	Meet Buses at KICC-WW	Meet Buses at KICC-DW											
TOPICS	WASTEWATER FACILITY TOUR	DRINKING WATER FACILITY TOUR											
Moderator	Alex Novak	Channa Newman											
Email	alex.novak@louisvillemtd.org	cnewman@lwkcy.com											
Cell Phone	502-396-5057	502-424-9110											
Monitor	Alex Novak	Channa Newman											
Email	alex.novak@louisvillemtd.org	cnewman@lwkcy.com											
Cell Phone	502-396-5057	502-424-9110											
1:00 PM	1011 Bells Lane High Rate Treatment Facility and Morris Forman Laboratory Alex Novak, Louisville MSD; Daymond Talley, Louisville MSD	1012 Louisville Water's Pumping Station and Treatment Facilities Larry Bryant, Louisville Water Co.; Richard (Scott) Smith, Louisville Water Co.											
			WW & PDH							DW & PDH			
Technical Program - Monday, August 19, 2019			Technical Program - Monday, August 19, 2019							Technical Program - Monday, August 19, 2019			
7:30 AM - 8:30 AM			Welcome Breakfast										
8:00 AM - 10:00 AM			Opening Session/Awards										
9:30 AM - 12:00 PM			Exhibit Hall Open										
10:00 AM - 10:30 AM			Break - Exhibit Hall										
MON AM	KICC Room M100	KICC Room M101/M102	KICC Room M103	KICC Room M104	KICC Room M105	KICC Room M106	KICC Room M107	KICC Room M108	KICC Room M109/M110	KICC Room M111			
TOPICS	REGULATORY UPDATE KY	DRINKING WATER QUALITY	SUSTAINABILITY	MODELING/ PLANNING	DIVERSITY	STORMWATER	COLLECTIONS	BIOSOLIDS	WATER SUPPLY	ENGINEERING & CONSTRUCTION			
Moderator	Kena Hyers	Matthew Charles	Martha Segal	Mark McKinney	Krista Citron	Scott Woodard	Jennifer Carey	Patrick McFadden	Trent Hollis	David Osborne			
Email	khyers@fudknox.com	mcharles@hazenandsawyer.com	martha.segal@nashville.gov	mmckinney@fudknox.org	krista.citron@amwater.com	swoodard@hazenandsawyer.com	jcarye@lexingtonky.gov	patrickm@lexingtonky.com	thollis@burnsmcd.com	dosborne@grwinc.com			
Cell Phone	865-539-0845	954-863-3941	615-456-7037	865-228-8129	859-382-6946	615-642-2644	859-948-6792	859-533-6723	205-240-0231	859-630-6131			
Monitor	Michael Macindoe	Jerry Hightower	Shannon Campbell	Jason Griffin	Michelle Dellinger	Danielle Kirkpatrick	Matthew Rice	Amanda Dobbs	Aaron Crenshaw	Jessica Cooper			
Email	macindoe@fulghummacindoe.com	jhightower@ctiengr.com	campbellsj@cdmsmith.com	jason.griffin@ohm-advisors.com	michelle.dellinger@nashville.gov	kirkpatrick_95@hotmail.com	mrice@e-u.cc	amanda.dobbs@greshamsmith.com	crenshaw@fulghummacindoe.com	jrcooper@maryville-tn.gov			
Cell Phone	865-548-6165	423-596-5268	502-693-1050	615-202-8670	615-330-1598	931-434-0521	423-741-5255	423-322-6949	865-719-7171	865-363-1763			
10:30 AM	2011 KY Drinking Water Update Pete Goodmann, KDOW	2111 ORSANCO's Ohio River Source Water Protection Program Update Richard Harrison, Ohio River Valley Water Sanitation Commission (ORSANCO)	2211 Case study of PONDUS TCHP installation at a 25MGD Waste Water Treatment Plant Gerhard Forstner, CNP	2311 Considering Reuse: Incorporating Water Reuse into Integrated Planning in KY & TN Scott Alpert, Hazen and Sawyer; Rosalyn Matthews, Hazen and Sawyer	2411 Psychologically Safe: Critical to an Inclusive Environment Roderick Sherman, Kentucky American Water	2511 Case Study: Chattanooga's St. Elmo Drainage Project (Chattanooga's Big Dig) Philip Nelson, Civic Engineering and Information Technologies, Inc.; Rick Bruce, S&ME, Inc.	2611 NIMBE (Not in My Basement, Ever!) – Investigating Sewer Odors Downstream of a PS Lindsey Hassenauer, Hazen and Sawyer; Lydia Watkins, Sanitation District No. 1 of Northern Kentucky (SD1)	2711 THP: What to Watch for in Planning, Design and Startup Mohammad Abu-Orf, Hazen and Sawyer	2811 Reducing Source Water Taste & Odor through Algal Treatment of Jacobson Reservoir Dorothy Rader, Kentucky American Water; Ciera Baird, Aquatic Control, Inc	2911 Challenges associated with expanding a 150 year old Water Treatment Plant Lindsay Bryant, SSR, Inc.; Brett Jones, Bowling Green Municipal Utilities			
			DW & PDH			PDH Only			DW & PDH			DW & PDH	
11:00 AM	2012 KY Clean Water Update Pete Goodmann, KDOW	2112 Replacing Century Old Sedimentation Basins David Bible, Stantec Consulting Services Inc.	2212 Measuring Success - The Triple Bottom Line of MWS' Biosolids Facility David Adams, Wilmot Inc	2312 The Importance of Proper Influent Characterization and Solids Train Modelling Paul Steele, Jacobs	2412 Corporate Social Responsibility: Being Proactive to Changing Norms Shane Crow, Kentucky American Water	2512 Preparing For a Flood of Development - Broadway District Stormwater Improvements Dylan Fisher, Town of Clarksville, Indiana; Benjamin Fennell, Strand Associates, Inc.; Seth Winslow, Strand Associates, Inc.	2612 Eastern Kentucky Water Quality Success - Ashland Reduces CSO Volumes by 65% Brent Tippey, HDR; Ryan Eastwood, City of Ashland	2712 Reducing the Costs for WWTP Digester Clean-outs Jesus Rodriguez, JWC Environmental	2812 ORSANCO Ohio River Bacteria Trend Report Richard Harrison, Ohio River Valley Water Sanitation Commission (ORSANCO)	2912 To Boldly Go...Murray's Decade of Enterprise Joe Pavoni, GRW			
			DW & PDH			PDH Only			DW, WW, & PDH			WW & PDH	
11:30 AM	2013 KY Legislative Update Wes Sydnor, MSD	2113 Process of Elimination: DBP reduction in two ozone/BAF pilot trains Christine Moore, Metro Water Services (Nashville, TN); Nacole McCormick, Metro Water Services (Nashville, TN)	2213 Murfreesboro's Integrated Plan for Water Resource Management Darren Gore, Murfreesboro Water Resources Department; Joseph Griffey, Smith Seckman Reid, Inc.	2313 Model, Citizen: A brief overview of hydraulic models, from simple to complex Nathaniel Green, James C. Hailey & Company, Consulting Engineers	2413 Why Supplier Diversity Matters Joy L. Walker, Louisville and Jefferson County Metropolitan Sewer District	2513 Stormwater & Flood Risk Management in Louisiana - A System Wide Approach Atri Sen, HNTB Corporation	2613 Force Main Management- Run to Failure or Assess, Address, and Manage this Asset Jimmy Stewart, Pure Technologies	2713 Advances in Aerobic Digestion Paul Bizier, Barge Design Solutions	2813 What Clean Water Can Do - Mobilizing A Global Change for a Better Tomorrow Luke Williams, Smith Seckman Reid, Inc.	2913 Digital As-Built Harmony, Promoting Simplicity for both Utilities and Contractor Jeff McCann, S&ME, Inc. - Water Resources			
			DW, WW, & PDH			PDH Only			WW & PDH			PDH Only	
12:00 PM - 1:30 PM			Awards Luncheon										
1:00 PM - 6:30 PM			Exhibit Hall Open										
MON PM	KICC Room M100	KICC Room M101/M102	KICC Room M103	KICC Room M104	KICC Room M105	KICC Room M106	KICC Room M107	KICC Room M108	KICC Room M109/M110	KICC Room M111			
TOPICS	REGULATORY UPDATE TN	DISTRIBUTION	WATER LOSS	WASTEWATER TREATMENT	LABORATORY	STORMWATER	COLLECTIONS	MANAGEMENT	WATER TREATMENT	ENGINEERING & CONSTRUCTION			
Moderator	Kena Hyers	Trent Hollis	Tony Sneed	Jennifer Carey	Clayton Foster	George Kurz	Jason Maxwell	Martha Segal	Matthew Charles	Mark Dickson			
Email	khyers@fudknox.com	thollis@burnsmcd.com	tsneed@alliancewater.com	jcarye@lexingtonky.gov	clayton.foster@bargedesign.com	george.kurz@comcast.net	jason.maxwell@stantec.com	martha.segal@nashville.gov	mcharles@hazenandsawyer.com	mdickson@crowderusa.com			
Cell Phone	865-539-0845	205-240-0231	256-278-1264	859-948-6792	615-498-8086	615-714-6120	859-333-9716	615-456-7037	954-863-3941	470-442-4035			
Monitor	Michael Macindoe	Kevin McCullough	Charlie Martin	Heather Stringfield	Keith Davis	Jason Brooks	Amanda Dobbs	Patrick McFadden	David Bible	Jessica Cooper			
Email	macindoe@fulghummacindoe.com	kevin.mccullough@infodesign.com	chmartin@lexingtonky.com	hstringfield@bgmu.com	keith.davis@hdengr.com	jbrooks@daengineering.com	amanda.dobbs@greshamsmith.com	patrickm@lexingtonky.com	david.bible@stantec.com	jrcooper@maryville-tn.gov			
Cell Phone	865-548-6165	615-426-0263	859-983-4857	270-784-5568	615-604-6727	865-368-3187	423-322-6949	859-533-6723	423-847-5716	865-363-1763			
1:30 PM	2021 TN Drinking Water Update Will Pride, TDEC	2121 Ensuring Water Supply to "It City's" Front Door: BNA Model and Master Plan Luke Burris, Barge Design Solutions	2221 The AWWA Non-Revenue Performance Indicator Task Force Committee Report Chris Leauber, Water & Wastewater Authority of Wilson County	2321 Protecting Our Freedom One Wastewater Treatment Plant At A Time Benjamin Clyde Luke, Gresham Smith	2421 I Eat Macros for Lunch:An interactive discussion on excel productivity David Radke, Louisville & Jefferson County MSD	2521 Wet Weather – Overflow Liability and Other Wet Weather Issues Gary Cohen, Hall & Associates	2621 Escape from Regulatory Purgatory? The Proposed Wet Weather Blending Rule Saya Qualls, Hazen and Sawyer; Wesley Sydnor, Louisville MSD	2721 Kentucky's Drinking Water Infrastructure Report Card Greg Heitzman, BlueWater Kentucky; Russell Rose, Oldham County Water District	2821 NOM Removal from Bench-scale to Conceptual Design: Making Timely Decisions Russell Ford, Jacobs	2921 Is Design-Build Right for Your Project Matt Bracewell, Burns & McDonnell Engineering Company			
			DW & PDH			PDH Only			DW & PDH			PDH Only	
2:00 PM	2022 TN Clean Water Update Jennifer Dodd, TDEC	2122 Large Diameter PCCP Water Main in Historic Cincinnati Ken Roseman, Gresham Smith	2222 Minimizing Apparent Losses: New Best Practices in Prioritizing Meter Testing BRYON BOYD, Valor Water	2322 Dewatering for a Sustainable Future in Memphis, Tennessee Bill Hamilton, Barge Design Solutions	2422 Back to Basics - The Basics of pH Eric Link, LabtronX	2522 MS4 Permitting - Common Issues of Concern Gary Cohen, Hall & Associates	2622 Avoiding Road Rage - Lessons Learned in Utility Relocation Projects Mark Noe, Barge Design Solutions, Inc.	2722 Grading Kentucky's Wastewater Infrastructure 2018 Dakotah DeRoche, Burgess & Niple Inc; Vicki Coombs, Louisville Jefferson County MSD	2822 Implementation of Mixed Oxidants at the Bowling Green Water Treatment Plant Michael Bernard, SSR; Doug Kimbler, BGMU	2922 Engineering Challenges with Replacement of a 1930s Reservoir in Johnson City, TN Steve Bostic, LDA Engineering			
			DW & PDH			PDH Only			DW, WW, & PDH			DW & PDH	
2:30 PM	2023 TN Legislative Update Saya Qualls, Hazen and Sawyer; Ryan Swindell, Windrow Phillips Group	2123 Crossing the Mighty Tennessee River with a 30-Inch Waterline Jerry Hightower, CTI Engineers, Inc.; Kurt Stafford, Tennessee American Water	2223 Asheville NRW Program Takes CMT to the Next Level for Real Payback Will Jernigan, Cavanaugh & Associates, P.A.	2323 KUB FWWT CP Phase 2 Improvements Biologically Enhanced High Rate Clarification Eric Goodman, CDM Smith	2423 Should I Perform an Audit on My Contract Lab? Jane Leatherland, Humboldt Utilities	2523 Navigating the New Jersey and Washington Stormwater Programs for BMP Evaluations Mark Miller, AquaShield, Inc.	2623 Clifton Heights CSO Basin - Design, Construction & Operations Challenges Todd Solomon, GRW Engineers; Meskerem Eshetu, Louisville MSD	2723 The State of Taste and Odor Response in TN: Results of a Survey of Water Utility Pamela Hoover, Vanderbilt University; Janey Camp, Vanderbilt University	2823 Reclaimed Water Brew – A Step toward Sustained Water Resources Management Milad Ebrahimi, Louisville MSD; Robert Bates, GRW Inc.	2923 Big Design Changes with a CMAR and Time Constraints David Laliberte, Hazen and Sawyer; Adam Tilley, Kentucky American Water			
			DW, WW, & PDH			PDH Only			DW, WW, & PDH			DW & PDH	
3:00 PM - 6:00 PM			Competitions										
3:00 PM - 4:30 PM			Ice Cream Social										
5:00 PM - 6:00 PM			Exhibitor Cocktail Hour - Exhibit Hall										

Technical Program - Tuesday, August 20, 2019		Technical Program - Tuesday, August 20, 2019																			
7:00 AM - 8:30 AM		Awards Breakfast																			
8:30 AM - 1:30 PM		Exhibit Hall Open																			
TUES AM		KICC SOUTH HALL - DW					KICC SOUTH HALL - WW														
TOPICS		DW MOBILE TECH SESSION					WW MOBILE TECH SESSION														
Moderator		John Ricketts					Allen Cox														
Email		john.ricketts@aecom.com					acox@dlpra.org														
Cell Phone		423-598-0682					205-790-6705														
Monitor		Mary Carol Wagner					Terry Hendrick														
Email		wagner@nkywater.org					thendrick@bgmu.com														
Cell Phone		859-991-1623					270-535-1832														
8:35 AM		8801a - Drinking Water Mobile Session Create a Safe Working Environment around Chemical Feed/Dosing Equipment Rodney Van; Asahi/America <i>DW & PDH</i>					9901a - Clean Water Mobile Session Pump it, Grind it, Screen it; Current Best Practices for Handling Wipes and FOG Robert Domkowski; Xylem, Inc. - Flygt <i>WW & PDH</i>														
		8801b - Drinking Water Mobile Session HMI Touch Screen & Stepper Motor Technology for Enhanced Metering Pump Controls Kerry Ayres; Verder, Inc. / Our Rep is Guthrie Sales & Service <i>DW & PDH</i>					9901b - Clean Water Mobile Session Monitoring Tools for Wastewater and Discharge Process Control Amanda Scott; Suez Water Technologies and Solutions Analytical Instruments <i>WW & PDH</i>														
		8801c - Drinking Water Mobile Session An Innovative approach to Reducing Real Water Loss in Oak Ridge, TN Brad Gresham, Wachs Water Services; Bryan Mills, City of Oak Ridge, TN <i>DW & PDH</i>					9901c - Clean Water Mobile Session Membrane Aerated Biofilm Reactor technology offers promising solutions to nitrog Amit Kaldate; SUEZ <i>WW & PDH</i>														
		8801d - Drinking Water Mobile Session Give Me the Bad News First: Automated Bacteriological Testing for DW Labs Seth Rye; Rye Engineering PLC <i>DW & PDH</i>					9901d - Clean Water Mobile Session Attacking I&I with Safety in Mind Terry Adams; Gonzalez Companies <i>WW & PDH</i>														
TUES AM		KICC Room M100		KICC Room M101/M102		KICC Room M103		KICC Room M104		KICC Room M105		KICC Room M106		KICC Room M107		KICC Room M108		KICC Room M109/M110		KICC Room M111	
TOPICS		BIOSOLIDS		WORKFORCE/CULTURE		WASTEWATER TREATMENT		COLLECTIONS		SAFETY & SECURITY		ENGINEERING & CONSTRUCTION		MANAGEMENT		WATER TREATMENT		METERING-BILLING		DISTRIBUTION WATER QUALITY	
Moderator		Reese True		Aaron Crenshaw		Shannon Campbell		Matthew Rice		Mason Hamilton		George Kurz		Jill Davis		Patrick McFadden		David Bible		George Woolwine	
Email		truer@bv.com		crenshaw@fulghummacindoe.com		campbellsj@cdmsmith.com		mrice@e-u.cc		mason.hamilton@bgmu.com		george.kurz@comcast.net		jill.davis@eone.com		patrickm@lexingtonky.com		david.bible@stantec.com		george.woolwine@askforpremier.com	
Cell Phone		502-221-5754		865-719-7171		502-893-1050		423-741-5255		270-791-1894		615-714-6120		423-744-0340		859-533-6723		423-847-5716		859-321-0339	
Monitor		Michael Macindoe		Adalyn Haney		Gabriel Anderson		Jason Maxwell		Jennifer Carey		Linda Sullivan		Mike Gardner		Caryl Ann Giles		Tim Kazmier		Jessica Cooper	
Email		macindoe@fulghummacindoe.com		ahaney@grwinc.com		gabriel.anderson@hydromaxusa.com		jason.maxwell@stantec.com		jcarey@lexingtonky.gov		lsullivan@cia-engineers.com		mike.gardner@bgmu.com		cgiles@springhilltn.com		tim@kazmierinc.com		jrcoper@maryville-tn.gov	
Cell Phone		865-548-6165		502-432-0570		812-207-7999		859-333-9716		859-948-6792		615-516-2852		270-535-4366		931-384-0626		865-250-1768		865-363-1763	
8:45 AM		3011 The Evolution of Thermal and Hydrothermal Processes for Sludge K. Richard Tsang, CDM Smith <i>WW & PDH</i>		3111 Proactively Implementing Community Benefits into Capital Programs Victoria Johnson, Jacobs Engineering; Tony Parrott, Louisville Metropolitan Sewer District <i>PDH Only</i>		3211 Grit it Out: Design of Vortex-Type Grit Removal Systems Clayton Foster, Barge Design Solutions; Luke Burris, Barge Design Solutions <i>WW & PDH</i>		3311 Spring Creek Interceptor Replacement Project for Morristown, TN Greg Jones, LDA Engineering <i>WW & PDH</i>		3411 Active Shooter! Now What? Brad Montgomery, GRW Engineers, Inc.; Scott O'Brien, APB Consulting Solutions <i>DW, WW, & PDH</i>		3511 Repairing Some of the Largest Vertical Column Pumps in the Country...in a Hurry Johnathan Thomas, HDR; Josh Dickerson, Louisville MSD <i>WW & PDH</i>		3611 Workforce Development/Retention/Diversity Darren Gore, Murfreesboro Water/Wastewater; Roy Mundy, McWane Ductile; Valoria Armstrong, TN American; Kena Hyers, First Utility District Knox County <i>PDH Only</i>		3711 Evaluating Surface Water Parameters for Treatment and Optimization Taylor Rosenhagen, Louisville Water Company; Nicole Tremblay, Louisville Water Company <i>DW & PDH</i>		3811 Are We Promoting Apparent Water Loss and Unbilled Water and Sewer Revenue? Craig Hannah, Johnson Controls, Inc. <i>PDH Only</i>		3911 Pursuing Excellence: Louisville Water and the Partnership for Safe Water Chris Bobay, Louisville Water Company <i>DW & PDH</i>	
9:15 AM		3012 Sustainable Approaches to Water Treatment Residuals Management Matt Charles, Hazen and Sawyer <i>WW & PDH</i>		3112 Securing and Cultivating the Next Generation Heather House, CDM Smith <i>PDH Only</i>		3212 New WWTP takes Control to meet Historic Effluent Limits Christopher Taylor, Evoqua Water Technologies; Doug Ralston, Engineering Resource Inc. <i>WW & PDH</i>		3312 Southwestern Parkway CSO Basin: A Journey into Progressive Design-Build Dakotah DeRoche, Burgess & Niple, Inc.; Brandon Flaherty, Louisville MSD <i>WW & PDH</i>		3412 One Bright and Sunny Day, Tragedy Struck Tamika Parker, Independent <i>DW, WW, & PDH</i>		3512 Making it "Works": Large Diameter Headworks Piping Design at Central WWTP Patrick Moore, Barge Design Solutions <i>WW & PDH</i>		3611 <i>PDH Only</i>		3712 The Evolution of Onsite Hypochlorite Generation - Case Studies from TN Utilities Gunnar Thordarson, UGSI Solutions, Inc; Thomas Flynn, South Blount Utility District <i>DW & PDH</i>		3812 Leaking it or Giving it Away? Understanding Real Water Loss vs. Meter Inaccuracy Jonathan Gunn, Johnson Controls Inc. <i>DW & PDH</i>		3912 Storage Tank Mixing and Distribution System Water Quality Improvements David Haines, PAX Water Technologies <i>DW & PDH</i>	
9:45 AM		3013 Optimizing Polymer Efficiency for Better Sludge Treatment - Two Case Studies Yong Kim, UGSI Solutions, Inc. <i>WW & PDH</i>		3113 A Workforce in Transition: How to Assure Water Infrastructure Quality Jim Wathen, NICET (National Institute for Certification in Engineering Technologies); Bob Stauble, Louisville MSD <i>PDH Only</i>		3213 Why Do An Odor Study? Lee Blakeman, Webster Environmental Associates, Inc.; Buz Rush, Webster Environmental Associates, Inc. <i>WW & PDH</i>		3313 We All SCREAM for Sewer Rehabilitation Planning - Utilizing SCREAM as a Toolset Adam Byard, Jacobs; Courtney Kennedy, Jacobs <i>WW & PDH</i>		3413 Water/Waste Water Security Udaya Kumar, Rockwell Automation; MATTHEW BUCHER, Rockwell Automation <i>DW, WW, & PDH</i>		3513 Foundation Challenges of a 10 MG Prestressed Concrete Tank Joe Henry, GRW Engineers, Inc. <i>DW & PDH</i>		3611 <i>PDH Only</i>		3713 Where's the Beef? Biofiltration Monitoring and Optimization in Low-TOC Waters Rebecca Lindsay, Gresham Smith <i>DW & PDH</i>		3813 Don't Make a Dumb Decision About Smart Meters Scott Clark, GRW <i>DW & PDH</i>		3913 Begin With the End in Mind: Rehabilitation to Six of Nashville's Water Tanks Jennifer Osgood, CDM Smith; Richard Woodroof, Metro Water Services <i>DW & PDH</i>	
10:15 AM - 10:30 AM		Break																			

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TUES AM			KICC SOUTH HALL - DW			KICC SOUTH HALL - WW								
TOPICS			DW MOBILE TECH SESSION			WW MOBILE TECH SESSION								
Moderator			Seth Bradley			Jason Brooks								
Email			sbradley@hazenandsawyer.com			jbrooks@ldaengineering.com								
Cell Phone			859-391-4824			865-368-3187								
Monitor			Scott Alpert			Kim Martin								
Email			salpert@hazenandsawyer.com			kmmartin99@yahoo.com								
Cell Phone			704-608-3796			225-241-3715								
10:20 AM			8811a Create a Safe Working Environment around Chemical Feed/Dosing Equipment Rodney Van; Asahi/America <i>DW & PDH</i>			9911a Pump it, Grind it, Screen it; Current Best Practices for Handling Wipes and FOG Robert Domkowski; Xylem, Inc. - Flygt <i>WW & PDH</i>								
			8811b HMI Touch Screen & Stepper Motor Technology for Enhanced Metering Pump Controls Kerry Ayres; Verder, Inc. / Our Rep is Guthrie Sales & Service <i>DW & PDH</i>			9911b Monitoring Tools for Wastewater and Discharge Process Control Amanda Scott; Suez Water Technologies and Solutions Analytical Instruments <i>WW & PDH</i>								
			8811c An Innovative approach to Reducing Real Water Loss in Oak Ridge, TN Brad Gresham, Wachs Water Services; Bryan Mills, City of Oak Ridge, TN <i>DW & PDH</i>			9911c Membrane Aerated Biofilm Reactor technology offers promising solutions to nitrog Amit Kaldate; SUEZ <i>WW & PDH</i>								
			8811d Give Me the Bad News First: Automated Bacteriological Testing for DW Labs Seth Rye; Rye Engineering PLC <i>DW & PDH</i>			9911d Attacking I&I with Safety in Mind Terry Adams; Gonzalez Companies <i>WW & PDH</i>								
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TOPICS			ASSET MANAGEMENT		SPECIAL TOPICS		WASTEWATER TREATMENT	COLLECTIONS	SMALL SYSTEMS	INDUSTRIAL PRETREATMENT	MANAGEMENT	WATER TREATMENT	CUSTOMER RELATIONS	REHABILITATION - DW
Moderator			Trent Hollis		Joseph Griffey		Heather Housel	Carey Johnson	Maryam Salehi	Shannon Pratt	Timothy Tucker	Katie Umberg	Wendy Creek	Krista Citron
Email			thollis@burnsmcd.com		joe.griffey@infodesign.com		houselh@cdmsmith.com	carey.johnson@ky.gov	mssfndrn@memphis.edu	spratt@labtronx.com	ttucker@cannon-cannon.com	katie.umberg@arcadis.com	wendy.creek@bargedesign.com	krista.citron@amwater.com
Cell Phone			205-240-0231		615-804-0725		615-631-8466	502-352-0030	251-463-9309	615-691-2182	865-414-1061	502-203-7668	770-634-6766	859-382-6946
Monitor			Monte Casto		Claire Sichko		Becky Hachenburg	David Adams	Michael Jacobs	Keith Davis	Alex Tweel	Dean West	Sheila Brumley	Rachael LeGoubin
Email			mcasto@murreesboroln.gov		claire.sichko@arcadis.com		becky.hachenburg@stantec.com	dadams@wilmotinc.com	mjacobs@grwinc.com	keith.davis@hdengr.com	alex@kazmierinc.com	dwest@murreesboroln.gov	sbrumley@tdknox.org	rlegoubin@ctiengr.com
Cell Phone			615-785-2407		614-395-7546		561-301-5616	330-844-1906	859-552-0406	615-604-6727	865-719-3602	615-642-6753	865-680-1759	281-860-5285
10:30 AM			3021 A Triple Crown Approach to Pipeline Management in Derby City Andrew Williams, LWC; WILLIAM BARLOON, Pure Technologies <i>DW & PDH</i>		3121 Taking Off: Improving Utility Management Using Drones Jim Albert, LDA Engineering; Shane Snoderly, City of Alcoa <i>PDH Only</i>		3221 Optimizing nutrient removal: A study on the microbial communities of three WRRFs Grace McClellan, Tennessee Technological University; Tania Datta, Tennessee Technological University <i>WW & PDH</i>	3321 KUB Jones St PS and TN River Crossing John Perry, Jacobs; Dwayne Frye, Knoxville Utilities Board <i>WW & PDH</i>	3421 Key Management Challenges in Operating Small Water Distribution Systems Lindell Ormsbee, Kentucky Water Resources Research Institute; Steve Evans, Kentucky Water Resources Research Institute; Steven Hoagland, Kentucky Water Resources Research Institute; Erika Hernandez, Kentucky Water Resources Research Institute <i>DW & PDH</i>	3521 State Pretreatment Updates Laurel Rogstad, TDEC - Division of Water Resources; Diana Robertson, Kentucky Energy and Environment Cabinet <i>WW & PDH</i>	3621 Municipal Collection System Metrics in Tennessee Robert O'Dette, State of Tennessee <i>WW & PDH</i>	3721 "Scenic City Says Sayonara to Chlorine Gas" Tennessee American Water Company's C Justin Bolender, HDR Engineering, Inc.; Tyler Cross, Tennessee American Water Company <i>DW & PDH</i>	3821 Customer Service's Role in Water Theft and the Effects on Business and Family Kerri Wagner, Consolidated Utility District of Rutherford Co.; Kimberly Davenport, Consolidated Utility District of Rutherford Co. <i>PDH Only</i>	3921 Great Hill Tunnel Repair and Rehabilitation Joe Schrank, McMillen Jacobs Associates <i>DW & PDH</i>
11:00 AM			3022 Considerations for Actuators Used in High Flow Management Erik Saitta, REXA, Inc. <i>WW & PDH</i>		3122 The Secret of Life Is... Craig Hannah, Johnson Controls, Inc. <i>PDH Only</i>		3222 Integrating Nutrient Removal into the Hite Creek Expansion Mark Sneve, Strand Associates, Inc.; Sharon Worley, Louisville and Jefferson County MSD <i>WW & PDH</i>	3322 Hydraulics of Pressure Sewer Systems Keith McHale, Environment One Corporation <i>WW & PDH</i>	3422 Life-Cycle Evaluation of Decentralized Collection Systems for Small Communities Lindsay Tucker, Orenco Systems <i>WW & PDH</i>	3522 Federal Pretreatment Program Update David Phillips, EPA Region4 <i>WW & PDH</i>	3622 Quantitative Data Management of the City of Chattanooga's Wet Weather Consent Shihua Xie, Jacobs Engineering Group Inc.; Mike Marino, Jacobs Engineering Group Inc. <i>PDH Only</i>	3722 A negative modification in a positive direction: Impacts of pre-ozonation on coa Rachel Weber, Metro Water Services (Nashville, TN); Samantha White, Metro Water Services (Nashville, TN) <i>DW & PDH</i>	3822 Customer Complaints After the Meter Randy Harrell, Consolidated Utility District of Rutherford Co.; Mark Lee, Consolidated Utility District of Rutherford Co. <i>DW & PDH</i>	3922 Repair v Replace: A Comparative Analysis of Large Valve Solutions Brad Gresham, Wachs Water Services <i>DW & PDH</i>
11:30 AM			3023 An Agile Implementation of GIS-Based Tools and Data to Support Asset Management Justin Graham, Barge Design Solutions <i>WW & PDH</i>		3123 Water For People Update JJ Van Dyke, Hazen and Sawyer <i>PDH Only</i>		3223 Implementing the World's Largest PAA Delivery System - Testing & Lessons Learned Brian Hilt, CDM Smith; Scott Morgan, City of Memphis <i>WW & PDH</i>	3323 Is Your Sanitary Sewer a Floodplain Drain? Thomas Cattlett, S&ME, Inc.; Travis Wilson, S&ME, Inc. <i>WW & PDH</i>	3423 Applying Innovative GIS and Dashboard Tools to Support Asset Management Jayson Brennen, CDM Smith <i>PDH Only</i>	3523 Common Industrial User Permitting Errors Chuck Durham, PG Environmental; Yatasha Moore, PG Environmental <i>WW & PDH</i>	3623 Maximizing Value in Automation Projects Andrew Green, Revere Control Systems <i>PDH Only</i>	3723 Cyanotoxin Incidence and Control Amanda Canida, Black & Veatch <i>DW & PDH</i>	3823 Investigating Customer Pressure/Flow Complaints Randy Harrell, Consolidated Utility District of Rutherford Co.; Mark Lee, Consolidated Utility District of Rutherford Co. <i>DW & PDH</i>	3923 Tennessee Ave. Water Distribution System Improvements (Hospital Area) Oak Ridge Greg Jones, LDA Engineering <i>DW & PDH</i>
12:00 PM - 1:30 PM			Lunch Buffet											

Technical Program - Tuesday, August 20, 2019		Technical Program - Tuesday, August 20, 2019								Technical Program - Tuesday, August 20, 2019	
TUES PM		KICC Room M100	KICC Room M101/M102	KICC Room M103	KICC Room M104	KICC Room M105	KICC Room M106	KICC Room M107	KICC Room M108	KICC Room M109/M110	KICC Room M111
TOPICS		GREEN INFRASTRUCTURE	SPECIAL TOPICS	WASTEWATER TREATMENT	REHABILITATION - WW	STUDENTS	INDUSTRIAL PRETREATMENT	WASTEWATER TECHNOLOGY	WATER TREATMENT	CUSTOMER RELATIONS	DISTRIBUTION
Moderator		Trent Hollis	John Ricketts	Mindy Scott	Joe Wauford	Allen Cox	Wendy Creek	George Kurz	Matthew Charles	David Bible	Krista Citron
Email		thollis@burnsmcd.com	john.ricketts@aecom.com	msscott@sd1.org	joe.wauford@nashville.gov	acox@dipra.org	wendy.creek@bargedesign.com	george.kurz@comcast.net	mcharles@hazenandsawyer.com	david.bible@stantec.com	krista.citron@amwater.com
Cell Phone		205-240-0231	423-598-0682	513-315-1163	865-567-4662	205-790-6105	770-634-6766	615-714-6120	954-863-3941	423-847-5716	859-382-6946
Monitor		Michael Macindoe	Adalyn Haney	Luke Burris	Jonathan Childs	Kate Macindoe	Heather Housel	Rachael LeGoubin	Jerry Hightower	Sheila Brumley	Mary Carol Wagner
Email		macindoe@fulghummacindoe.com	ahaney@grwinc.com	luke.burris@bargedesign.com	jonathan.childs@bargedesign.com	kmacindoe@ssr-inc.com	houselh@cdmsmith.com	rlgoubin@ctiengr.com	jhightower@ctiengr.com	sbrumley@tuckknox.org	wagner@nkywater.org
Cell Phone		865-548-6165	502-432-0570	615-812-4839	334-324-6644	865-228-7017	615-631-8466	281-660-5285	423-596-5268	865-680-1759	859-991-1623
1:30 PM	3031 Sustainability Design for the Central Waste Water Treatment Plant (CWWTP) Steve Drummer, LDA Engineering	3131 Collaborate, Innovate, Win: Roadmap to a Successful Project William "BJ" Christman, Crowder Construction Company; Darric Beach, Crowder Construction Company	3231 Comprehensive Performance Assessment of Wastewater Treatment Plants Milad Ebrahimi, Louisville MSD; Thomas Rockaway, University of Louisville	3331 Concrete Pipe Inspection – How to Maximize the Benefit from Laser and LIDAR Data Sean O'Rourke, Hazen and Sawyer	3431 Student Design Team: Baker Creek Springhouse Restoration Matthew Howard, University of Tennessee - Knoxville	3531 More Than One Way to Skin the Local Limit Cat Yatasha Moore, PG Environmental; Jane Leatherland, Humboldt Utilities	3631 Enhancing Marketability of Biosolids via Thermal Drying and Pelletization Sudhakar Viswanathan, Veolia Water Technologies; Meg Hollowed, Veolia Water Technologies	3731 Geotubes - An Innovative Approach for Meeting Residuals Challenges Bret Lavey, Stantec; Adam Tilley, Kentucky American Water	3831 Communicating Emerging Contaminants to Your Customers Mike McGill, WaterPIO	3931 Water distribution monitoring to inform Non-Renue Water reduction Zachary Barker, Visenti; Brian Ellis, Pure Tech	
	PDH Only	PDH Only	WW & PDH	WW & PDH	PDH Only	WW & PDH	WW & PDH	DW & PDH	PDH Only	DW & PDH	
2:00 PM	3032 Identifying and Prioritizing Green Infrastructure for Phosphorus Load Reduction Matthew Jones, Hazen and Sawyer; Kathleen Smith, Hazen and Sawyer	3132 ABC's of VFD's Chris Dugas, ABB	3232 Saving Energy and Money through Better Wastewater Treatment Plant Mixing Matt Johnson, Xylem Inc.	3332 Sewer System Rehabilitation: Lessons Learned to Improve Construction Quality Amanda Dobbs, Gresham Smith; Mike Burgett, Gresham Smith	3432 University of Louisville/University of Kentucky Student Chapter Updates Samuel Kessler, U of L; Lauren Reinersman, U of L; Erika Hernandez, UK	3532 The Five Q's of Industrial User Inspections: Who, What, Where, Why, and When Chuck Durham, PG Environmental	3632 THK Technology Innovation For the Purpose of Biosolids Sludge Thickening Nathan Nowicki, Centrisys	3732 Under A Salt! – A Unique Look at Reverse Osmosis Concentrate Disposal Methods Michaela Rempkowski, Burns & McDonnell	3832 The Customer Engagement Path to Advanced Metering Infrastructure Lori Hammett, WaterSmart Software	3932 Automating SCADA Controls for Tank Maintenance and Emergency Response Joseph Goodin, Stantec Consulting; Adam Tilley, Kentucky American Water	
	PDH Only	DW, WW, & PDH	WW & PDH	WW & PDH	PDH Only	WW & PDH	WW & PDH	DW & PDH	PDH Only	DW & PDH	
2:30 PM	3033 More than a Buzzword - Energy Efficiency Master Planning Cassandra Johnson, Jacobs Engineering Group	3133 Control of Harmful Algal Blooms through a more Rational Use of Copper David Hammond, Earth Science Labs, Inc.; Fred Singleton, Earth Science Labs, Inc.	3233 Aeration System Improvements at the Bristol Regional WWTP Daniel Unger, CDM Smith; Chris Bentley, CDM Smith	3333 The Sky is the Limit: Using Cloud based Tech to Monitor SSOs & Target Rehab Seth Rye, Rye Engineering PLC	3433 WKU/TTU Student Chapter Updates Rachel Kaiser, WKU; TBD TBD, TTU	3533 How Smart Metering Technology takes Monitoring to a Whole New Level Josh Balentine, City of Memphis; Derrick Porter, City of Memphis	3633 Advanced Trickling Filter Forced Air Ventilation System and Odor Control Design Stephen Burdett, CDM Smith; Jordan Wilson, CDM Smith	3733 Taking Control of Change – Long Term Reliable Solutions for SRWTP Source Water Luke Williams, Smith Seckman Reid, Inc.; Alan Cranford, Murfreesboro Water Resources Department	3833 "And the survey says!" – Using data to evaluate and guide public outreach Angela Poe, Lexington-Fayette Urban County Government; Jennifer Carey, Lexington-Fayette Urban County Government	3933 The Importance of Routine Maintenance of Water Storage Tanks Patrick Brown, Tank Industry Consultants	
	PDH Only	DW & PDH	WW & PDH	WW & PDH	PDH Only	WW & PDH	WW & PDH	DW & PDH	PDH Only	DW & PDH	
3:00 PM - 3:15 PM	Break										
3:00 PM - 4:30 PM	Ice Cream Social										
TUES PM		KICC Room M100	KICC Room M101/M102	KICC Room M103	KICC Room M104	KICC Room M105	KICC Room M106	KICC Room M107	KICC Room M108	KICC Room M109/M110	KICC Room M111
TOPICS		ASSET MANAGEMENT	ENGINEERING & CONSTRUCTION	WASTEWATER TECHNOLOGY	REHABILITATION - WW	YOUNG PROFESSIONALS	INDUSTRIAL PRETREATMENT	FINANCE	DRINKING WATER QUALITY	EXTERNAL COMMUNICATIONS	DISTRIBUTION
Moderator		Aaron Thompson	Richard Yarbrough	Rob Coleman	George Woolwine	Travis Hamby	Seth Bradley	Jason Griffin	Patrick McFadden	Becky Hachenburg	Scott Alpert
Email		thompsonn@bv.com	ryarbrough@c2r1.com	rob@cahabawatersolutions.com	george.woolwine@askforpremier.com	thamby@ctiengr.com	sbradley@hazenandsawyer.com	jason.griffin@ohm-advisors.com	patrickm@lexingtonky.com	becky.hachenburg@stantec.com	salpert@hazenandsawyer.com
Cell Phone		502-777-9021	865-599-3687	205-821-2511	859-321-0339	931-239-8233	859-391-4824	615-202-8670	859-533-6723	561-301-5616	704-608-3796
Monitor		Monte Casto	Akeem Turner	Dwayne Frye	Aaron Crenshaw	Contact Travis Hamby and Ben Fennell	Caleb Sanders	Kayla Durham	Caryl Ann Giles	Shanna Stone	Kim Childress
Email		mcasto@murfreesboroln.gov	akeem.turner@greshamsmith.com	dwayne.frye@kub.org	crenshaw@fulghummacindoe.com		csanders@hazenandsawyer.com	kdurham@murfreesboroln.gov	cgiles@springhilltn.com	sstone@grwinc.com	labmanager@druc.org
Cell Phone		615-785-2407	615-347-0353	865-806-2700	865-719-7171		615-636-7046	615-947-6690	931-384-0626	502-836-6244	931-273-1075
3:15 PM	3041 Condition Assessment of the Zorn Raw Water Transmission Mains in Louisville, KY Andrew Williams, LWC; William Barloon, Pure Technologies	3141 NCS's Ashley Interceptor Rehab Phase 8 by Cured-in-Place Pipe Methodology James Reigart, WK Dickson & Co., Inc.; Jarred Jones, North Charleston Sewer District	3241 Optimizing Polymer Mixing and Activation: Following the Science Yong Kim, UGSI Chemical Feed	3341 Retrofitting an SBR with MBR technology for Municipal Wastewater Treatment Samantha Kendrick, H2O	3441 How to Get Involved with AWWA/WEA Young Professionals, Committee	3541 Distillery Wastewater Case Study Larry Moore, Retired	3641 Municipal Utility Wholesale Rate Adjustments in Kentucky (Part I) Daren Thompson, Lebanon Water Works; Damon Talley, Stoll Keenon Ogden PLLC	3741 Enhanced Source Water Monitoring Roger Tucker, Louisville Water Company	3841 Louisville Water Company's School & Daycare Lead Monitoring Program Emily Fritz, Louisville Water Company	3941 Preparing for I-65 Corridor Growth: CPWS Distribution System Master Plan Clay Zielinski, Barge Design Solutions; Jonathan Hardin, CPWS	
	DW & PDH	WW & PDH	WW & PDH	WW & PDH	PDH Only	WW & PDH	PDH Only	DW & PDH	PDH Only	DW & PDH	
3:45 PM	3042 Condition Assessment of Critical Water Mains, A Tiered Cost-Effect Approach Robert (Robbie) Cook, Jacobs; Danny Maxwell, Knoxville Utilities Board	3142 Lessons Learned in the Preconstruction Phase of the Central WWTP Design Project Trey Cavin, Metro Water Services	3242 Enhanced and Simple Wet Weather Treatment with Pile Cloth Media Filtration Tatiana Mazzei, Aqua-Aerobic Systems, Inc.	3342 Mammoth Cave NP Sewers: A Resource Protection Project Richard Smith, HDR Engineering, Inc.	3442 Historical Overview of Louisville: A City at the Falls of the Ohio River Tom Owen, University of Louisville	3542 Activated Sludge for Pretreatment? Pete Shack, Phoenix Environmental Engineers, Inc.	3642 Overlapping Effective Utility Management and Asset Management Planning Craig Calvert, RA Consultants	3742 Anticipated costs of potential revisions to the Lead and Copper Rule Rebecca Slabaugh, Arcadis	3842 Quality, Service, Innovation and Value: Louisville Water's Vision & Strategy Matthew Griffith, Louisville Water Company	3942 Ice Pigging - Advanced Pipe Cleaning Paul Treloar, Suez	
	DW & PDH	WW & PDH	WW & PDH	WW & PDH	PDH Only	WW & PDH	PDH Only	DW & PDH	PDH Only	DW, WW, & PDH	
4:15 PM	3043 The New Validation Standard for AWWA Water Auditing Will Jernigan, Cavanaugh & Associates, P.A.	3143 Let's Get Physical! Optimizing CWWTP Primary Inf Baffles with Physical Modeling Eric Mayhaus, Brown and Caldwell; Cody McGee, Brown and Caldwell	3243 Solids Treatment Technology Evaluation and Selection for Collierville, TN's Shel Jason Ogg, Gresham Smith; Clay Holabird, Shelton Road WWTP, Collierville, TN	3343 Perkins Creek Pump Station Rehabilitation – Rehabbing JSA's Largest Pump Station Michael Hansen, HDR Engineering	3443	3543 Phased Approach to FOG Then & Now Jason Crawford, Sanitation District No. 1	3643 If you build it, they will come...or they may come even if you don't! Then what? Jason Brooks, LDA Engineering; Cyrus Toosi, Metro Water Services	3743 Tap Water Quality at a Residential Green Building: Intensive One-Year Monitoring Maryam Salehi, University of Memphis	3843 Crafting a Successful Crisis Communications Plan Mike McGill, WaterPIO	3943 Sustainable Energy Savings Using Proper Pipe Materials John Simpson, McWane	
	DW & PDH	WW & PDH	WW & PDH	WW & PDH		WW & PDH	PDH Only	DW & PDH	PDH Only	DW & PDH	
4:30 PM - 5:30 PM	Social Hour (Hosted by YP Committee)										
6:00 PM - 10:00 PM	Member Celebration - Frazier Museum										

Technical Program - Wednesday, August 21, 2019			Technical Program - Wednesday, August 21, 2019			Technical Program - Wednesday, August 21, 2019		
WED AM	Morris Forman Water Quality Treatment Center Lab							
TOPICS	LAB WORKSHOP							
Moderator	Daymond Talley							
Email	daymond.talley@louisvillemtd.org							
Cell Phone	502-540-6730							
Monitor	Shannon Pratt							
Email	spratt@labtronx.com							
Cell Phone	615-691-2182							
8:00 AM	4311 Laboratory Practices Workshop Lab Staff, Louisville MSD; Patrick Garrity, KDDW; Barbara Loudermilk, TDEC; Will Pride, TDEC; Derek Walker, Hach <i>DW, WW, & PDH</i>							
Technical Program - Wednesday, August 21, 2019			Technical Program - Wednesday, August 21, 2019			Technical Program - Wednesday, August 21, 2019		
WED	7:30 AM - 8:30 AM	Continental Breakfast						
TOPICS	Marriott Salon VII & VIII WORKSHOP - DW	Marriott Salon IX & X WORKSHOP - WW	Marriott Bluegrass I & II DIVERSITY					
Moderator	Kay Ball	Doug Kimbler	Contact RJ Sherman					
Email	kball@lwcky.com	doug.kimbler@bgmu.com						
Cell Phone	502-821-0410	270-782-9941						
Monitor	JJ VanDyke	Michelle Hatcher	Contact RJ Sherman					
Email	jvandyke@hazenandsawyer.com	michelle.hatcher@franklntn.gov						
Cell Phone	615-374-5980							
8:30 AM	4111 99.9989% is Not Good Enough! (Session 1) Daniel Tegene, Louisville Water; Larry Bryant, Louisville Water; Greg Thielmeier, Louisville Water; Mike Meyer, Louisville Water; MarySusan Abell, Louisville Water; Kevin Brian, HDR <i>DW & PDH</i>	4011 Waterway Protection Tunnel: Louisville's Innovative Solution to 4 Storage Basins Jacob Mathis, Louisville MSD; Jonathan Steflik, Black & Veatch Corporation <i>WW & PDH</i>	4211 Women's Networking Event Roderick Sherman, Kentucky American Water; Shane Crow, Kentucky American Water; Joy Walker, MSD; Jasmine Mungo, Kentucky American Water; Lianna Castillo, Tennessee American Water <i>PDH Only</i>					
10:00 AM - 10:30 AM								
TOPICS	Marriott Salon VII & VIII WORKSHOP - DW	Marriott Salon IX & X WORKSHOP - WW						
Moderator	Kay Ball	Doug Kimbler						
Email	kball@lwcky.com	doug.kimbler@bgmu.com						
Cell Phone	502-821-0410	270-782-9941						
Monitor	JJ VanDyke	Michelle Hatcher						
Email	jvandyke@hazenandsawyer.com	michelle.hatcher@franklntn.gov						
Cell Phone	615-374-5980							
10:30 AM	4121 99.9989% is Not Good Enough! (Session 2) Daniel Tegene, Louisville Water; Larry Bryant, Louisville Water; Greg Thielmeier, Louisville Water; MarySusan Abell, Louisville Water; Kevin Brian, HDR <i>DW & PDH</i>	4021 Ohio River Interceptor Structural Rehabilitation Project Heather Dodds, Louisville MSD; David Hafner, Brown and Caldwell; Nick Ulliman, Ulliman Schutte Construction <i>WW & PDH</i>						
11:30 AM	4123 Lead Service Replacement Program Update Daniel Tegene, Louisville Water; Jamie Long, Louisville Water; Denise Hettinger, Louisville Water; MarySusan Abell, Louisville Water <i>DW & PDH</i>	4023 The State of Our Streams Water Quality Monitoring Update Erin Wagoner, Louisville MSD; Melissa Tucker, Stantec <i>PDH Only</i>						