

**Monday, July 29, 2019**

Time	Room 106A		Room 106B		Room 107A		Room 107B		Room 202A		Room 202B	
	WATER TREATMENT	PRESENTER	WATER SUPPLY AND DISTRIBUTION	PRESENTER	WASTEWATER TREATMENT	PRESENTER	PIPELINES / REHABILITATION	PRESENTER	ENERGY AND DIGITAL SOLUTIONS	PRESENTER	RISK / UTILITY MGMT	PRESENTER
10:00 - 10:30	Granular Activated Carbon Contactor Treatment for PFOA and PFOS Removal – C.B. Collier Water Treatment Plant GAC Contactor Facility	<i>Kate Zills Hazen and Sawyer</i>  <i>Chad Hare Gadsden WW&amp;SB</i>	Lead Testing in Drinking Water at Child Care Facilities	<i>Jason R. Barrett Center for Government &amp; Community Development</i>	"Is your plant constipated? Improving Anaerobic Digester Efficiency"	<i>Jim Smith Constantine Engineering</i>	Big Pipe in the Big Easy	<i>James Ballintine American Cast Iron Pipe Company</i>	Successful Strategies for Energy Cost Management	<i>Clay McKee CDG Engineers</i>	Risk-Based Prioritization of the MAWSS System Master Plan	<i>Daniel Broxson &amp; David Stejskal Jacobs</i>
10:30 - 11:00	Selecting the Right Oxidant for Your Drinking Water Treatment Plant Using Application- and Operations-Based Criteria	<i>Ashley Pifer Garver</i>	Water in the Third World: Providing Water Supply in Haiti	<i>Austin Moore Heflin Engineering</i>	Grit Happens Designing a Grit Removal System That Works	<i>Don Shoaf Hydro International</i>	"We Complied" 315 Miles of Force Main Network Prioritized, Assessed, and Managed	<i>Justin Midgette Emerald Cost Utilities</i>  & <i>Jimmy Stewart Xylem</i>	Should Our Utility Invest in Solar: A Financial Case for Renewable Energy	<i>Sam Selig Entegrity</i>	Emergency Response Plan: It's not just for the AWIA, but it helps.	<i>Alicia Keeter South Walton Utility Company</i>
11:00 - 11:30	Aeration TOC Reduction Options	<i>Ellen Gaby IXOM</i>	"Grappling with the Beast – A Discussion of Water Loss Control Methods"	<i>Ray Sloan Birmingham Water Works</i>	Bypass Plants: Continuing Wastewater Service During Major Repairs	<i>John Croom AUC Group</i>	Save Time, Money, and Headaches: Choosing the Best HDPE Installation Method	<i>Peter Dyke PE Pipe Alliance</i>	GIS - The Morgan Freeman of the Water/Wastewater Engineering Industry	<i>Justin Graham Barge Design Solutions</i>	The IoT (Internet of Things): Data (Points, Sets, Diverse) - It's Big Data that Drives a Risk-Based Approach to Manage Your Utility into the Future	<i>Graham Bell Xylem</i>
11:30 - 1:00	<b>LUNCH</b>											
1:00 - 1:30	Evaluating Powdered Activated Carbon, Granular Activated Carbon, and Ion Exchange for Per- and Poly-Fluoroalkyl Substances (PFAS) Removal from Water	<i>Samantha Black HDR</i>	Storage Tank Mixing and Distribution System Water Quality Improvements	<i>David Haines PAX Water Technologies</i>	How Dry I Am: A Life Cycle Analysis of Wet vs. Dry Emergency Scrubbers	<i>Michael Cole DeNora Water Technologies</i>	Pipe Bursting: A Municipal Perspective	<i>Alan Goodman Hammerhead Trenchless</i>	Digital Solutions to Eliminate Uncertainty, Reduce Costs, and Improve Efficiency	<i>Kathryn Grimball Hach</i>	Assessment, Alternative Review and Use of Dynamic Hydraulic Modeling in Development of the Best Long-Term Solution	<i>Doug Cote MAWSS &amp; Mike Stickley and Michelle Mayes Jacobs</i>
1:30 - 2:00	Getting the Iron Out: Case Studies on Meridian and Culkin WTP's	<i>Emily Gilbert SUEZ</i>	The Effect of Network Topology on the Resilience and Water Quality in Urban Water Distribution Systems	<i>Arka Pandit University of South Alabama</i>	Oxidation Ditch Upgrade from Rotors to Diffused Air and Lower O&M costs with TN and TP	<i>Jeff Holmes Hydra Service</i>	Horizontal Directional Drilling Utilizing Ductile Iron Pipe	<i>Jim Watterson American Cast Iron Pipe Company</i>	Digitalization Monitoring of Processes and Plant Assets	<i>Todd Loudin Flowrox</i>	The Unknown and Missing Pieces of Asset Management	<i>Jimmy Stewart Xylem</i>
2:00 - 2:30	How SURE? Sustainability and RESiliency for Conventional Filters and Underdrain Systems	<i>Stuart Humphries Orthos Liquid Systems</i>	Improve Water Quality and Restore Capacity with Unidirectional Flushing	<i>Brad Gresham Wachs Water Services</i>	Choosing the Right Blower Technology for Your Wastewater Treatment Plant	<i>Zachary Azra Atlas Copco</i>	Alternative Project Delivery for Sewer Collections Systems - Developing and Implementing the Sullivan's Island Turnkey Sewer Rehab Construction Program	<i>Jim Shelton Arcadis</i>	Cellular Technology for Control Systems/SCADA	<i>Phil Fricks INS</i>	Empowering Utilities through Corporate Asset Management	<i>Dinorah Sanchez Cityworks</i>
2:30 - 3:00	<b>BREAK</b>											
3:00 - 3:30	GAC for Removal of PFAS Precursors	<i>Eli Townsend Calgon Carbon</i>	Mix It Up: Potable Water Storage Tanks	<i>Lucy Allen Kasco</i>	Beat Ultra-Low Phosphorus and Metals Targets with Reactive Filtration: How Your WWTP Could Consistently Hit µg/L Targets	<i>Perry Pelitera Nexom</i>	Exploring Solutions in Pressure Pipe Rehabilitation	<i>Chad Andrews Underground Solutions</i>	Best Practices for Deploying Cellular Connectivity & Cloud-Based Solutions	<i>Justin Hogue LEC</i>	Effective Utility Management Strategies – Customer Service	<i>Jeff Duplantis Constantine Engineering</i>
3:30 - 4:00	Autonomous RO: The Innovative Way to Reduce Costs and Simplify Your Life	<i>Todd Sturtz &amp; Mike Boyd Desalitech</i>	Monitoring Effectiveness of Corrosion Control Programs in the Distribution System	<i>Leigh Jester HDR</i>	"Why One Utility said "Screw It" - Revisiting the Selection of Screw Press Technology for Solids Dewatering Improvements	<i>Rusty Tate Garver</i>	Fundamentals of Pipe Bursting	<i>Mike Woodcock Portland Utilities Construction</i>	Energy Efficiency and Nutrient Reduction Through Process Optimization in the Aerobic Digester	<i>Alex Krapas Xylem</i>	Pitfalls in Security: Why it Happened and How to Fix it	<i>Bob Craig Jacobs</i>
4:00 - 4:30	Making the Best Use of Powdered Activated Carbon for the removal of Cyanobacteria Bloom Byproducts	<i>Zaid Chowdhury Garver</i>	Design and Construction of Prestressed Concrete Tanks	<i>Alex Ciasca Crom Corporation</i>	Cutting-edge Innovations in UV Lamp Technology and Reactor Design	<i>Michael Shortt Trojan Technologies</i>	Basics of Pipe Corrosion and Protection	<i>John Simpson McWane Pipe</i>	Energy Savings Utilizing Variable Frequency Drives	<i>Trey Mayfield Electric Maintenance Associates</i>	EPA Risk and Resiliency: An All Hazards Approach to Security and Preparedness	<i>Kevin Mullins Garver</i>
4:30 - 5:00	Methodology and Documentation for Drinking Water testing of pH, Chlorine and Turbidity	<i>Lennette West Hach</i>	Active Mitigation of THM Levels in Drinking Water Distribution Systems	<i>Pete Kyrkos PSJ Water Technologies</i>	Advances in Sludge Drying Technologies: Case History of an Indirect Contact Sludge Dryer Installation in Albertville, AL	<i>Sean Mack BCR Environmental &amp; Dale Williams MUB-Albertville</i>	Trenchless Sewer Rehab: Options and Lessons Learned	<i>Spencer Tuell Gulf Coast Underground</i>	Developing Minimum Bills and Other Revenue Related Items	<i>Jim Marshall Jackson Thornton</i>	Wastewater Management Challenges in the Rural Alabama Black Belt: Conditions and a Path Forward	<i>Kevin White, Mark Elliot &amp; Mark Barnett University of South Alabama</i>
5:00 - 6:00	<b>EXHIBIT HALL - HAPPY HOUR</b>											

**Tuesday, July 30, 2019 - OPERATOR DAY**

Time	Room 106A		Room 106B		Room 107A		Room 107B		Room 202A		Room 202B	
TRACK	REGULATORY UPDATES	PRESENTER	COLLECTION SYSTEMS	PRESENTER	ENGINEERING / OPERATIONS	PRESENTER	TECHNOLOGY	PRESENTER	STORMWATER	PRESENTER	INSTRUMENTATION / AUTOMATION	PRESENTER
8:00 - 8:30	The State of Water Use in Alabama	<i>Tom Littlepage Alabama Office of Water Resources</i>	There is No Substitute for Velocity	<i>Andrew Kirby &amp; Luis Mijares ADS Environmental</i>	Mississippi Well Owner Network: How we got here!	<i>Jason Barrett Center for Government &amp; Community Development</i>	Advances in Groundwater Drilling Technology	<i>Chris Hay Morrow Water Technologies</i>	Make it Rain: Stormwater Utilities in Alabama	<i>Courtney Reich Goodwyn Mills &amp; Cawood</i>	Modernizing a Legacy SCADA System: The Journey of Riviera Utilities	<i>Lee Kibler Riviera Utilities</i>
8:30 - 9:00	Achieving Class AA Biosolids Utilizing A Full-Scale Design/Build/Operate Approach	<i>Ted Merrell Merrell Brothers</i>	Structural Polyurethane and Rehabilitation of America's Infrastructure	<i>Chip Johnson Sprayraq</i>	Opportunities to Work Together for Source Water Protection	<i>Adam Carpenter AWWA</i>	Rare Earth Technology in Wastewater Treatment	<i>Logan Wherry Neo Water Treatment</i>	Big Creek Drainage Study and Flood Mitigation Design Project, Shelby County, Tennessee	<i>Adrian Ward Barge Design Solutions</i>	Single Platform for Smart Water	<i>Danny Hutcheron CC Lynch &amp; Associates</i>
9:00 - 9:30	ADEM's Proposed Biosolids Program	<i>Scott Story ADEM</i>	CIP Funding and Implementation Optimization	<i>Alex Shannon HDR</i>	Water's Worth It! "Is it Leaking? Where? Looked for it, found it, fixed it!"	<i>Jimmy Stewart Xylem</i>	Carbamazepine Removal in Decentralized Wastewater Treatment Systems	<i>Kevin White University of South Alabama</i>	The Kinetics of Nutrient Sorption from Stormwater Runoff Through a Permeable Reactive Barrier	<i>Rachel Chai &amp; Arka Pandit University of South Alabama</i>	A Rigorous Approach to Protect from Lightning Strikes	<i>Steven Weber DEHN</i>
9:30 - 10:00	<b>BREAK</b>											
10:00 - 10:30	Mississippi Clean Water State Revolving Loan Program Update	<i>Tony Caldwell MDEQ</i>	An Overview of Sewer Modeling to Eliminate SSOs in Jefferson County, Alabama	<i>Md Alam Hazen and Sawyer &amp; Daniel White Jefferson County</i>	Best Practice Training Techniques for Field Personnel	<i>Carrie Parker Blue Heron Engineering</i>	A Picture is Worth a Thousand Words	<i>Robert Brown Goodwyn Mills &amp; Cawood</i>	How Much is Maintaining an Old Storm System Going to Cost? A Case Study in Comprehensive CIP Development	<i>David King &amp; Ben Adams Barge Design Solutions</i>	Instrument Management – Mobile Sensor Management	<i>Kathryn Grimball Hach</i>
10:30 - 11:00	Mississippi Wastewater Permitting Update	<i>Bradley Crain MDEQ</i>	How The City of Tuscaloosa Infrastructure and Public Services (IPS) Department Uses SCREAM Next Step and Costing Logic Aide in its CMOM Program and Reduce Dry Weather SSOs	<i>Jarrold Milligan City of Tuscaloosa</i>	Upgrading for the Future: Dothan, Alabama's Omussee Creek Wastewater Treatment Plant	<i>Tonny Peters Barge Design Solutions</i>	Establishing and Evaluating Strategic Dredging Plans	<i>J'ohnnie Wilson SFC Contract Services</i>	FC Series Flood Control Structures	<i>Jon Rasmussen Flood-Con</i>	Minimizing Apparent Losses: New Best Practices in Prioritized Meter Testing Replacement and Revenue Recovery	<i>Alex Puryear Valor Water</i>
11:00 - 11:30	Mississippi Drinking Water State Revolving Loan Program Update	<i>Harry Gong MSDH</i>	Calculating SSO Volumes	<i>David Henson Anniston WW&amp;SB</i>	Operation Audits: A Proactive Approach in a Reactive Environment	<i>Wes Cardwell Garver</i>	A Collaborative Adaptive Management Approach to TMDL Development and Implementation	<i>David Denard Jefferson County ESD</i>	Flood Mitigation at Garden Park Medical Center	<i>Clayton Foster Barge Design Solutions</i>	Pressure Surge for Dummies	<i>Bill Nicholl GA Industries</i>
11:30 - 1:00	<b>LUNCH</b>											
1:00 - 1:30	Mississippi Regulatory Update	<i>Amy McLeod MSDH</i>	What's Under That Lid?	<i>Danny Holmberg Krebs Engineering</i>								
1:30 - 2:00	ADEM Water Update	<i>Aubrey White ADEM</i>	Equalization Storage To Solve a Chronic SSO Problem In Tuscaloosa	<i>Tina Sheikheinzoddin Hazen and Sawyer &amp; Bryan Gurney City of Tuscaloosa</i>								
2:00 - 2:30	ADEM Wastewater Update	<i>Emily Anderson ADEM</i>	Importance of Lateral Inspection and Renewal as part of your Comprehensive CIPP Rehabilitation	<i>Hugh Cornell BLD Services</i>								
2:30 - 3:00	<b>BREAK</b>											
3:00 - 3:30	AL PE Board Update	<i>Griffin Pritchard BELS</i>	Horizontal Directional Drilling 101	<i>Chad Andrews Aegion Underground Solutions</i>								
3:30 - 4:00	Small System Partnership	<i>Todd Brewer USDA</i>	I & I Micro Detection	<i>Mark LaPlante Duke's Root Control</i>								
4:00 - 4:30	Alabama 811	<i>Hayes Vinson Alabama 811</i>	I/I Reduction Success: How Lateral Lining Achieved Over 90% Reduction in I/I	<i>Stephen H. King Hazen and Sawyer</i>								
4:30 - 5:00	Complying with American Iron and Steel Requirements on Federally Funded Projects	<i>Harry Gong MSDH</i>	Holistic Trenchless Rehabilitation for Wastewater Collection Systems	<i>Jeff Maier Garver</i>								
5:00 - 6:00	<b>EXHIBIT HALL - HAPPY HOUR</b>											

Wednesday, July 31, 2019

Time	Room 106A		Room 106B		Room 107A		Room 107B	
TRACK	COMMUNICATION / FINANCE	PRESENTER	INSTRUMENTATION	PRESENTER	PUMPS / WASTEWATER	PRESENTER	TECHNOLOGY	PRESENTER
7:30 - 8:00	Strategic Communications - Managing Political and Social Risk to Help Utilities Maintain Positive Perception	<i>Marsha Miller HDR</i>	Mitigating Risk in Your Instrumentation and Control Strategy	<i>Andrew Green Revere Control Systems</i>	Tecta-PDS: A Fully Automated Rapid Microbiological Pathogen Detection System	<i>Stephen Gerber Gerber Pumps</i>	No Sweat: Aerogel-Infused Thermal Insulating Coatings For Condensation Control	<i>Robert Crumbaugh Tnemec</i>
8:00 - 8:30	Educating Stakeholders to Become Ambassadors Through MAWSS Citizen Water Academy	<i>Monica Allen MAWSS</i>	Ultrasonic Transient-Time Meters: A Hands-On Exercise to Determine Accuracy, Calibration, and Proper Use	<i>Danny Hutcheron CC Lynch &amp; Associates</i>	Protects Sewer Pumps from Non-Dispersible Materials: Installation of a Vertical Bar Screen	<i>Olivier Monfort Aqualitec Corp</i>	Control of Zebra and Quagga Mussels through a More Rational Use of Copper	<i>David Hammond Earth Science Labs</i>
8:30 - 9:00	Water Main Repair and Replacement Program Highlighting Their Strategies and Technologies Utilizing GIS Models	<i>Shane Dressback &amp; Trisha Brown Arcadis</i>	Alarm Management, Trending, and Reporting in Utility-Wide SCADA Systems	<i>Alan Hudson VTScada by Trihedral</i>	Avoiding Dangerous Curves with Pressure Sewer Systems	<i>Keith McHale Environment One Corp</i>	A Safe and Reliable Disinfection Alternative to Bulk Sodium Hypochlorite and Gas Chlorine	<i>Gunnar Thordarson PSI Onsite Disinfection</i>
9:00 - 9:30	Communicating Rates with the Alabama Water and Wastewater Rates Dashboard	<i>Austin Thompson UNC Chapel Hill</i>	The Value of Comprehensive Leak Detection: An Innovative Approach to Reducing Real Water Loss	<i>Brad Gresham Wachs Water Services</i>	Life-Cycle Evaluation of Effluent Sewer Systems	<i>Bo Tucker Orenco Systems</i>	Multi-Barrier Trident® HS Successfully Used to Expand Water Treatment Plant	<i>Mitchell Matthews WesTech Engineering</i>
9:30 - 10:00	<b>BREAK</b>							
10:00 - 10:30	Developing the Workforce of the Future	<i>Margaret Tanner Jefferson County ESD</i>	Discussion on Level Technologies	<i>Grady Andrews Hile Controls ABB / Ktek Partner</i>	Life Cycle Costing Approach for Evaluating Sludge Thickening Options: a Case Study of San Antonio Water System's Sludge Thickening Upgrade	<i>Nathan Nowicki Centrisys</i>	National Sanitation Foundation (NSF) Requirement and Solutions	<i>Tony Carson Specification Rubber</i>
10:30 - 11:00			Advances in Non-Contact Flow Meter Technology	<i>Malcolm Lynch CC Lynch &amp; Associates</i>	Methods for Assessing/Troubleshooting Wastewater Lagoon Performance	<i>David Spencer Environmental Business Specialists</i>	Design and Operation Considerations for Pressure Filtration Equipment in the Treatment of Ground Water Contaminate	<i>Brian Reynolds Hungerford &amp; Terry</i>
11:00 - 11:30			You Don't Know What You Don't Know	<i>Stephen Daly Hach</i>	Modeling for Success: Taking Lagoon Process Design to the Next Level	<i>Jim Martin LEMNA Environmental</i>	Facultative Lagoon Polishing Using Recirculating PolyGeyser Technology	<i>Ronald Malone AST Filters</i>
<b>CONFERENCE ENDS</b>								