

Technical Sessions

Day	Time	Session	Presentation Title	Contact
Monday Sept. 29	1:30 PM	Applications and Optimization of MBR Technology	0.6 MGD Validation of a Unique Tertiary MBR Process to Provide NdN for Pure Water	Bryce Danker, Ron Latimer, Paul Pitt, Yewei Sun, Wendell Khunjar
	1:30 PM	Biosolids Planning from WRF to the WRRF	Evaluating Innovative and Sustainable Treatment Options for Biosolids (WRF Project # 5169)	Micah Blate, Mohammad Abu-Orf, Anne Sun
	1:30 PM	Low SRT Performance of Membrane Aerated Biofilm Reactors (MABR)	Hybrid MABR Technology for Nitrogen Removal in a Low Suspended Growth SRT	Paul Pitt, Ron Latimer
	2:30 PM	Densified Activated Sludge (DAS) Fundamentals	Unraveling the many benefits of DAS: Insights into nitrifier enrichment through SRT decoupling of flocs versus granules	Wendell Khunjar, Yewei Sun, Kelley Florence, Ron Latimer
	2:30 PM	Tackling the PFAS Puzzle: Addressing Wastewater Effluent Concerns for Reuse	Beyond the PFAS treatment Barrier: Key Lessons from an 18-Month Pilot on PFAS removal from Wastewater	Conner Murray, Gayathri Ram Mohan
	4:00 PM	Efficient Flow: Innovative Strategies for Asset Management	Human Capital in Condition Assessment Programs: Analyzing Resource Requirements for Execution of a Successful CAP Program	Shelbie Puglio, John Sorrell
	4:00 PM	Understanding Clarifier Settability from Fundamental to Intensification Process	Optimizing Suspended Solids Removal in Secondary Clarifiers from DAS Systems	Anna Scopp, Ryan Priest, Alonso Griborio, Wendell Khunjar, Will Martin
	4:30 PM	Full-Scale Shortcut Nitrogen Removal	Unlocking Resource Intensification through Full-Scale Densification and PdNA	Gregory Pace, Wendell Khunjar, Elizabeth Manning, Yewei Sun

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Day	Time	Session	Presentation Title	Contact
Tuesday Sept. 30	9:00 AM	Microplastics In Wastewater Treatment: Insights from Recent Research	WRF Project 5221- Impact of Solid Stream Treatment on Microplastics in Biosolids	Anne Sun, Cayla Cook
	9:30 AM	Technology Spotlight		See email for details
	1:30 PM	Innovative Carbon-Based Advanced Treatment Solutions Transforming Water Reuse	Innovative Carbon-based Advanced Treatment in Action: Unveiling Key Lessons Learned from Pilot Demonstrations	Gayathri Ram Mohan, Wendell Khunjar, Jiefu Wang
	2:00 PM	A Story of Struvite Survival and a Sidestream Saga	Thermal Hydrolysis of Biosolids: Reducing Microbial Inhibition in Sidestream Treatment	Wendell Khunjar, Michaela Morales
	3:50 PM	Densified Activated Sludge Full Scale Performance and Optimization	Towards Unifying Densification and Low TN / TP Operation at the South Durham Water Reclamation Facility	David Wankmuller, Patricia Drummey Stiegel, Wendell Khunjar, Yewei Sun
	4:00 PM	Concept to Completion: Pump Station Improvement and Construction	TRWRA Pleasure Bay Interceptor Tunnel Crossing and Main Pump Station Replacement	Kevin Haney
	4:30 PM	Decarbonizing Water: Mathematical Modeling and Digital Twins to Reduce N ₂ O Emissions from WWTP	Operational Strategies and N ₂ O Emission Hotspots: Integrating Monitoring Campaigns with Process Modelling	Katherine Bell
Wednesday Oct. 1	9:00 AM	Decarbonizing Water: Across Space and Time - Techniques for CH ₄ and N ₂ O Monitoring	Advanced Quantification of Fugitive Methane Emissions in Wastewater Treatment Plants	Katherine Bell
	9:00 AM	PdNA: Insights into Pilot and Full-scale Implementations	Primary Effluent- and Glycerol-Driven PdNA for Large-Scale Potable Reuse: Maximizing Benefits from MBBR to IFAS Transition	Yewei Sun, Bryce Danker, Wendell Khunjar, Paul Pitt, Ron Latimer, Anne Sun
	10:30 AM	Operational Optimization through Digital Transformation Enablement and Adoption	Enhanced Information Retrieval in the Digital Age	Charles Woldorff
	11:00 AM	Thermal Treatment of PFAS in Biosolids	Understanding Gasification for PFAS Removal in Residuals: Full-Scale Study Results from WRF Project 5107	Mohammad Abu-Orf, Micah Blate, Kamruzzaman Khan
	1:30 PM	Decarbonizing Water: GHG Measurement vs Estimates	Beyond One-Size-Fits-All: How Operational Patterns and Compliance Limits Shape Fugitive GHG Emission Variability in Wastewater Treatment Plants	Katherine Bell

Moderated Panels

Day	Time	Session	Contact, Role
Monday Sept. 29	1:30 p.m.	Training and Retaining Tomorrow's Workforce	Malia Turner, Assistant Facilitator
	1:30 p.m.	Biosolids Planning from WRF to the WRRF	Matthew Van Horne, Discussion Lead Facilitator
	1:30 p.m.	Transforming Stormwater Management with Next-Generation Digital Technologies	Christopher Tabor, Discussion Lead Facilitator
	1:30 p.m.	Low SRT Performance of Membrane Aerated Biofilm Reactors (MABR)	Joseph Rohrbacher, Moderator
	3:30 p.m.	What Stinks? Community Engagement to Odor Solutions	Richard Pope, Speaker
Tuesday Sept. 30	1:30 p.m.	Collaborative Case Studies: Design-Build for Effective Capital Delivery	Malia Turner, Assistant Moderator
	1:30 p.m.	Exploring the Capability and Flexibility of MABRs	Alyssa Mayer, Assistant Moderator
	1:30 p.m.	Collaborative Case Studies: Design-Build for Effective Capital Delivery	Shane Bragg, Moderator
Wednesday Oct. 1	8:30 a.m.	PdNA: Insights into Pilot and Full-scale Implementations	Nandita Ahuja, Assistant Moderator
	8:30 a.m.	Innovative Approaches to Micropollutant Removal in Wastewater	Andrew Matsumoto, Discussion Lead Facilitator
	10:30 a.m.	Pathways for Decarbonization and Circular Water Economy	Jennifer Walsh, Moderator
	1:30 p.m.	Can Current Knowledge of CECs Keep Future Contaminants from Emerging?	Jennifer Walsh, Assistant Facilitator