

WEFTEC 2022 Technical Sessions at a Glance

as of 4/28/22

Monday, October 10												
	BIOSOLIDS & RESIDUALS MANAGEMENT/ENERGY	COLLECTION SYSTEMS & DISTRIBUTION	DISINFECTION & PUBLIC HEALTH	FACILITY OPERATIONS & MAINTENANCE	FUTURE ISSUES & GLOBAL INSIGHTS	INDUSTRIAL ISSUES & TREATMENT TECHNOLOGIES	MUNICIPAL WASTEWATER TREATMENT PROCESS & DESIGN	RESEARCH & INNOVATION	STORMWATER MANAGEMENT	UTILITY MANAGEMENT & LEADERSHIP	WATER REUSE & RECLAMATION	WATERSHED RESOURCES MANAGEMENT & SUSTAINABILITY
1:30 PM	Co-Digestion of High-Strength Wastes Biosolids Planning and Management	Digital Water Tools to Evaluate and Optimize Collection Systems	The Great UV Dose Debate	Sewer Process and Ventilation Modeling: The Underground Menace Optimizing Post Aerobic Digestion		Managing Upsets at Petroleum Refinery Wastewater Treatment Plants	Secondary Clarifiers: CFD or Not Understanding the Benefits of Low DO Operation Monitoring and Mitigation of Nitrous Oxide Emissions from WRRFs	WEF/AEESP Master Lecture	Solving Stormwater Mysteries Through Modeling New Tools for Planning and Executing Effective Stormwater O&M	Water Policy Update Current Topics in Equipment Procurement	Fundamentals of Planning for Potable Reuse	
3:30 PM		Collection Systems Design and Construction Challenges	Wastewater-Based Disease Surveillance Part I: Paving the Path Forward	Thermal and Energy Opportunities	Building DE&I Within the Water Sector	The Drive to Net Water Positivity for Industry	Low DO Case Studies Fundamentals of Sludge Densification Making MBR More Cost Effective	PFAS From Coast to Coast: Five Perspectives on Strategies and Next Steps	Building Better Communities Through Green Infrastructure	Alternative Project Delivery Methods Non-Traditional Stakeholder Coordination for Public Engagement Transforming Data Into Insight and Knowledge	Using Federal Infrastructure Funding to Advance Water Reuse	Uptake Your Nutrients!

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8:30 AM	Pyrolysis and Gasification	The Ultimate Collection Systems Fundamentals Trivia Challenge!		Digital Twins I: Introduction to Process Improvement	Case Studies in Climate Change Impacts and Adaptability	Industrial Pretreatment: Utility and Industry Perspectives	Advanced Aeration: The Whole Package Knowledge Development Forum: Designing for Emerging and Innovative Technologies	PdNA Research Highlights: Does the Carbon Source Matter?	Real Time Control and Modeling for Design & Operation of Stormwater & Wetland Restoration Systems	Small Communities I: Wastewater Treatment Options Energy Reliability Is Core to Business DE&I Aspects of Resource Planning	Regulations for Direct Potable Reuse in the United States Microconstituents Removal in Potable Water Biofiltration Systems	What Makes Integrated Planning and One Water Approaches Beautiful?
1:30 PM	PFAS in Biosolids: New Approaches to Removing These Forever Chemicals	Buzzword Bingo: Digital Solution Applications in the Collection System	Wastewater-Based Disease Surveillance Part II: Improving Sampling and Interpretation of Results Microplastics: Everything You Want To Know	Guidelines for Optimizing Nutrient Removal Performance	Defining Environmental Justice For The Water Sector	Refinery Wastewater Technology Advances Industrial Water Reuse for Sustainability	Knowledge Development Forum: Internally Stored Carbon for Intensifying BNR	Application of Process Modeling for Intensification of Secondary Treatment	MS4s and The Clean Water Act Innovative Stormwater Research Beyond Green Infrastructure	Where Could Your Funding Be Hiding? Data Analytics and Performance Reporting	Innovative Approaches to Increase Your Potable Water Supply	
3:30 PM	Enhancing Anaerobic Digestion With Pretreatment	Using Technology for I/I Identification		Digital Twins II: Process Improvement Case Studies	Environmental Justice in Practice: Stories from around the U.S.	Innovative Solutions for Treatment of Petrochemical Wastewaters Solutions and Ideas From Award Winning Industrial Experts	Process Aeration Modeling and Optimization Intensification Intersection: Comparing Process Intensification Technologies Progress of Carbon Diversion Using Advanced Primary Treatment	PFAS: Sources and Occurrence in Water and Wastewater	Stakeholder Engagement and Design for Adapting to Climate-Driven Rainfall Changes	Utility Leaders Round Table Wastewater Management Options for Small Communities Communicating the Importance of Biosolids with the Public		Muddied Waters, Managed by Many Models

Wednesday, October 12

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8:30 AM	Anaerobic Digestion Optimization	Inflow and Infiltration (I/I): Get Off My Property!	UVC-LED From Lab to Full Scale Operating Facilities	Clearing the Air With Sustainable Odor Control How to Improve EBPR Through RAS Fermentation		Removal of Perchlorate and 1,4-Dioxane From Industrial Wastewaters Pharmaceutical Wastewater Best Practices	Comprehensive Wet Weather Solutions at WRRFs Evolution of Biologically-Enhanced Carbon Diversion New Adventures in Shortcut Nitrogen Removal	Latest Sensor Developments for Solids Management	Stormwater Finance Needs Minimize Flood Risk: Mapping and Solutions in Dense Urban Areas	Delivering the Goods Through Program Management, P3, and PDB	Ozone/BAC in CBAT Operations: It's Time for Optimization	
10:30 AM	Creating Value from Wet Organic Wastes: How The DOE Is Helping		Peracid Progress: On-Site Generated PAA, Delivered PAA, and Performic Acid	Updates to ASCE's Clean Water and In-Process Oxygen Transfer Standards	Decarbonization Status and Global Trends	Applied Metagenomic Testing for Treatment Plant Operators and Engineers Innovative Approaches and Considerations for Industrial Pretreatment Compliance	Carbon Generation for BNR Knowledge Development Forum: PdNA Prime Time - Moving Into Practice	Control and Monitoring for Improved EBPR	Mitigating Flood Risk In Urban Areas	Future Visualization Tools for Utilities Incorporating Risk Evaluations in Design and Modeling for Utility Management Cybersecurity Strategy and Tactics	MBR LRV Credits I: Can You Prove It?	TMDLs... "Loading" on the River
1:30 PM	Cross Process Performance Enhancements Involving Thickening and Dewatering Advanced Digestion Topics	Internal and External Factors on Force Main Construction and Rehabilitation	Digital Process Evaluation and Optimization for Public Health Protection		The Project Funding Journey for Small and At-Risk Communities	Biological Technology Applications in Dairy and Meat Processing Wastewater Treatment	Fundamentals of Greenhouse Gas Accounting for Wastewater Utilities Advances in the MABR for Nutrient Removal Sludge Granulation in Continuous Flow Systems	Treatment of PFAS in Liquid Phase	Blue, Green, or Grey Infrastructure: Which Colors Are Best For Your Community?	Rates, Complaints, and Floodgates: Examples of Successful Stakeholder Engagement Positive Impacts of Business Process Improvements Leveraging Artificial Intelligence for Asset Management	MBR LRV Credits II: Can You Prove It?	