

Monday, October 18

1:30 PM – 3:00 PM CT

Collection Systems and Distribution	Disinfection and Public Health	Facility Operations and Maintenance	Future Issues	Industrial Issues and Treatment Technologies	Municipal Wastewater Treatment Process and Design
The Digital Transformation Journey	PFAS 101: Intro to the Forever Chemicals	Necessities and Reinvention in the Pandemic Workforce Setting the Groundwork for Success in Your Asset Management Program	The Many Facets of Resiliency	Reducing Industry's Water Footprint: Alternative Water Sources	Tertiary Phosphorus Removal: Where We Have Been and Where We Are Going
Research and Innovation	Residuals and Biosolids Management/Energy	Stormwater Management	Utility Management and Leadership	Water Reclamation and Reuse	Watershed Resources Management and Sustainability
	Co-digestion: Advancements and Lessons Learned	The People Side of Stormwater Management	Water Policy Update	Implementation of Potable Reuse	Come Together, Right Now, Over Watersheds

Monday, October 18
4:00 PM – 5:30 PM CT

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	Peracid Post-up: What's New in Alternative Chemical Disinfection with PAA and PFA?	Technology Advancement in Side-stream Phosphorus Recovery	Knowledge Development Forum: Decarbonization of the Water/Wastewater Sector	Integrating Anaerobic Processes Into Industrial WWTPs	PDNA Applied Research Secondary Clarifier Treatment Performance
Research and Innovation	Residuals and Biosolids Management/Energy	Stormwater Management	Utility Management and Leadership	Water Reclamation and Reuse	Watershed Resources Management and Sustainability
Master Lecture: Lutgarde Raskin Not Forever Chemicals! We Can Get Rid of PFAS			Big Picture Planning Builds Resilient Organizations One Size Doesn't Fit All: Scaling Innovation Assessment and Planning		

Tuesday, October 19
11:00 AM – 12:30 PM CT

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	Pathogens 101	Digital Twins: Trial by Jury			<p>Knowledge Development Forum: The Plot Thickens Part I – Current State of Granular Sludge</p> <p>Advancements in Primary Treatment: Going Beyond the Conventional</p>
Research and Innovation	Residuals and Biosolids Management/Energy	Stormwater Management	Utility Management and Leadership	Water Reclamation and Reuse	Watershed Resources Management and Sustainability
Finding Better Ways to Digest	Energy from Water: Department of Energy	Improving Stormwater Management Over the Long Haul	<p>Proactive Leveraging of Workplace Diversity, Equity, and Inclusion in Utility and Private Organizations</p> <p>Data Accuracy in Asset Management</p> <p>Public Communications Critical Issues</p>	Advanced Controls for Disinfection and Potable Reuse	

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Finding and Removing I/I	Spotlight on COVID-19: Wastewater Risks and Unknowns	Data-Driven Engineering through Data Analytics "Capturing the ROI": Translating Asset Management to CapEx and OpEx	Improving Science Communication in Challenging Times	Industrial Markets, The Times They Are A-Changin'	Population Dynamics: Latest Update on EBPR Research
Research and Innovation	Residuals and Biosolids Management/Energy	Stormwater Management	Utility Management and Leadership	Water Reclamation and Reuse	Watershed Resources Management and Sustainability
		A Vision for the Future of Stormwater	Embracing the Uncertain Part I: Fundamentals of Uncertainty Analysis at WRRFs Utility-led Innovation as the Key to Organizational Agility		Less Nutrient Loading and Phos-For-Us

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Pump Stations and Force Mains		Ammonia-based Aeration Control: How to Make It Work What A Public Works Director Needs to Know About Emerging Contaminants and PFAS		Practical Solutions to the Challenge of Poor Solids Separation in Activated Sludge Secondary Clarifiers	Knowledge Development Forum: Process Intensification Using Low DO Operation - It Is Possible and What Can I Control and Look For? 21st Century Water Resource Recovery Facilities: Improving Water Quality While Becoming Carbon Neutral
Research and Innovation	Residuals and Biosolids Management/Energy	Stormwater Management	Utility Management and Leadership	Water Reclamation and Reuse	Watershed Resources Management and Sustainability
Keeping A Taste of Your Own Medicine Out of Water	Biosolids End Use: Improvements and Lessons Learned	When the Rain Comes Down and the Seas Go Up	Embracing the Uncertain Part II: Applications of Uncertainty Analysis at WRRFs		Update on Regulatory Framework

Wednesday, October 20
8:30 AM - 10:00 AM CT

Collection Systems and Distribution	Disinfection and Public Health	Facility Operations and Maintenance	Future Issues	Industrial Issues and Treatment Technologies	Municipal Wastewater Treatment Process and Design
<p>Amazing Construction Stories from the Collection System</p>	<p>Riding the UV Wave: Tracking the Evolution of UV Technology (UV-LED) and New Applications</p>	<p>Knowledge Development Forum: Balancing Process and Automation Needs with Cybersecurity Requirements</p> <p>Straddling the Fence: Odor Impacts on Neighbors and the Plant</p>		<p>Methods, Monitoring, and Modeling, Oh My!</p>	<p>Bringing PdNA to Practice: Are We There Yet?</p> <p>Taking MBR Into Next Level</p>
Research and Innovation	Residuals and Biosolids Management/Energy	Stormwater Management	Utility Management and Leadership	Water Reclamation and Reuse	Watershed Resources Management and Sustainability
		<p>Industrial Stormwater: Emerging Requirements, Historical Challenges, and Cutting-edge Treatment Technology</p>	<p>System Resiliency: Preparing Our Utilities for the Future</p> <p>Innovation in Asset Portfolio Decision Making</p>	<p>Microconstituents and CECs in Reuse</p>	

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11:00 AM – 12:30 PM CT

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New Hydraulic Model Calibration Techniques	Microplastics: Whose Issue Is This?	Instrumentation: Experience from Different Perspectives and Fields N2O Emissions from Water Resource Recovery Facilities	Water Justice: How We Improve Water Equity	Knowledge Development Forum: Bioaugmentation – 2 Perspectives and Aerobic Membrane Advances Applied	To Ferment or Not to Ferment: Experiences with Carbon Management, Addition, and Generation for Nutrient Removal Are You Intense Enough? Case Studies in Nutrient Removal Biofilm Systems
Research and Innovation	Residuals and Biosolids Management/Energy	Stormwater Management	Utility Management and Leadership	Water Reclamation and Reuse	Watershed Resources Management and Sustainability
		Views on MS4 Permits from Across the Country	What Do You Need in Your CIP Toolbox? Tools and Approaches to Optimize Your Capital Program	Latest on Gaining Log Removal Credits for MBRs	

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	Building A Successful Wastewater-based Epidemiology (WBE) Program	Bringing It All Together: Guide to Designing and Implementing S2EBPR Processes		Unique Approaches for Removal of Selenium and Other Constituents from Wastewater and Groundwater	<p>Process Intensification: Full-scale MABR</p> <p>Knowledge Development Forum: The Plot Thickens Part II - Future of Granular Sludge</p> <p>Wet Weather Treatment Innovations</p>
Research and Innovation	Residuals and Biosolids Management/Energy	Stormwater Management	Utility Management and Leadership	Water Reclamation and Reuse	Watershed Resources Management and Sustainability
	Biogas: Market-based Decisions for Resource Recovery		<p>Digital Transformation: Leveraging Smart Infrastructure and Data Analytics to Optimize Performance</p> <p>Leveraging Collaborative Delivery to Achieve Project Goals</p>		Pathogen Pep-Talk: How We Monitor, Model, and Convey Data