

Wednesday August 27, 2025

Name: _____

	Room 201	Room 202	Room 203-204	Room 207-208	Room 215	Room 217
	Asset Management	System O&M	Wastewater Treatment	Water Storage	Utility Management	Wastewater Collection
8:30 AM	Optimizing Wet-Weather Flow Management: Insights from a Business Case Evaluation	Silent Sentinels: Guardians of the Flow	PFAS: Navigating the Shifting Landscape - A 2025 Update	Tanks, Pipes, Panthers, and Progress: Navigating Construction Challenges in Infrastructure Development	Sharing Your Water Story on Capitol Hill - Yes, YPs Too !	A Sewer Model for the Future!
9:00 AM	Innovative collaborative engineering restores primary treatment capacity without extending the construction duration	A Week Becomes a Day: New Ideas and O&M Collaboration Leads to the Shortest THP Shutdown on Record	Holistic PFAS Management in Wastewater & Biosolids	Benefits of Water Storage Tank Maintenance: Extended Service Life, Lowest Life-Cycle Costs & Most Sustainable Approach	ETHICS Project Managers and Contractors – Working Together Ethically	All Aboard: Fast-Track Design of Sewer Relocations for a Railroad Track Expansion Project
9:30 AM	Lead and Copper Rule Improvements (LCRI) - What water systems need to know:	Construction Without Disruption: Keeping Your Facility Online During a Major Electrical System Upgrade and Facility Renovation	WRF 5107 Understanding Gasification for PFAS Removal and Destruction	Water Tank Coatings Failures – A Deep Dive Into the Causes and Effects of Poor Painting		Forced Maintenance: A case study on Wastewater Force Main Inspection
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1:00 PM	AI-supported Maintenance Planning of Work Orders: 10 Use Cases	Shutdown Simulation Tool	Upcycling an industrial byproduct for phosphorus and sulfur sequestration.	CFD Modeling at the City of Baltimore's Oldest WFP's to Aid in Informed Decision Making	The Road to Affordability: Using Data and Metrics for Sound Approaches	The Rehabilitation of DC Water's Northwest Boundary Trunk Sewer
1:30 PM	Digital Twin - Duckett Dam	Advancements in Genome Analysis, Bioinformatics, and the Application to Wastewater Biology	High Energy Savings in Wastewater Treatment With Low DO Resulting in Simultaneous Nitrification and Denitrification	Transforming Water Treatment: Innovative Solutions for Emerging Contaminants	Water Modeling for the Future - The Only Constant is Change	Pollutant H&H Model Prioritizes Improvements & Cost Savings
2:00 PM	BIM Enterprise Implementation - Lessons Learned when Scaling Solutions	HydroWatch: Real-Time Water Health Monitor	CFD Modeling Streamlines Scale Physical Modeling of Pump Intake Hydraulics	Disinfection By-Product (DBP) Control Strategies for Challenging Operational Conditions in the Town of Ocean City, MD	Evaluation of how to get system reliability, enhanced water quality, and adequate pressure in the City's First and Second Zone	WORLD RECORD HDD under the Deepest Water Harbor on the East Coast
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	Asset Management	Stormwater	Wastewater Treatment	Water Treatment	Utility Management	Wastewater Collection
3:30 PM	Condition Assessment 2.0 - Beyond the Visual: When Data Management Meets Facility Operations	Raising Resilience for Washington, DC with an Integrated Flood Model	Low-Cost Strategies to Reduce Nitrous Oxide Emissions, a potent Green House Gas	Under Pressure: Efficiently Executing Your PFAS Pilot Program on Surface Water Treatment Plants	WSSC Water's Strategic Plan Drives Realignment of Asset Management Program	From Trunk Lines to All-Pipe Models: Advancing Sewer System Analysis at WSSC Water
4:00 PM	Infrastructure Intelligence – Advanced Pipeline Assessment Using Autonomous Robots for Rapid Baseline Sewer Condition Assessment	From Flood Zone to Resilient Streetscape: The Construction Management Approach to Cleveland Park	Development of Design Criteria for Partial Denitrification Anammox (PdNA) Systems for Sustainable Nitrogen Removal	Operations and Water Quality Dashboarding and Assessing Facility Cost Share in a Complex System	Baltimore City Hydraulic Model Expansion and Charting a Course for 2050	SC941 - Commissioning of a Large Diameter Pressure Sewer Relief System
4:30 PM	DC Water's Use of Machine Learning as an Additional tool to Document Non-Lead Service Line Records	Ghost Stream Makeover: Trenchless Edition	How Back River WWTP was brought back, an insiders perspective	How good are you at multitasking? Operating to exceed finished water standards while optimizing residuals production.	Buck the Traditional and Jump into the Cloud	DC Water's MH31 Replacement Project: A Case Study of DBIA Best Practices

Thursday August 28, 2025

Name: _____

	Room 201	Room 202	Room 203-204	Room 207-208	Room 215	Room 217
	Asset Management	System O&M	Wastewater Treatment	Water Treatment	Utility Management	Wastewater Collection
8:30 AM	Evolution of the Water Capital Improvement Plan Strategy within Detroit Water and Sewerage Department	Transformation of Crownsville's Water and Sewerage Systems from Historic State Institution to a Reimagined Premiere Multiuse Park	Design and Construction To Incorporate A New 360 MGD Headworks At ALCOSAN WWTP	Bench-Scale Assessment of PFAS Removal Options on Surface Water-- a Virginia Story	A Discussion of Resources and Tools Available to Prepare Risk and Resilience Assessments and Emergency Response Plans	Taking Innovation and Collaboration to the Next Level – The Story of the Innovation District Pump Station
9:00 AM	Crawl, Walk, Run – Building Your Asset Management Program	From Workshops to Results: Effective Collaboration in Control System Upgrades	Innovative Water Resource Recovery: Cutting-Edge Practices at WSSC Water	Getting the Treatment Right—Pilot Study for an 80 MGD PFAS Surface Water Treatment Plant	From Revolution to Renovation: Revamping Annapolis's Hidden Infrastructure	Reducing Combined Sewer Overflows with Inflatable Dams
9:30 AM	Implementation of Life Extension for Aging Infrastructure	Innovative Turbidity Monitoring: How the Swan AMI Turbiwell Eliminates the Need for Recalibration	Innovative Solution to Meet ENR Limits in the Chesapeake Bay Watershed in a Severely Underloaded Plant	Design, Construction and Startup of a 30 MGD PFAS Treatment Facility	Preparing water workforce to advance their skills for digital and AI	An Innovative Approach to Pump Station Pipeline Inspections Using Rope Access
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11:00 AM	Risky Business: Prioritizing System-Wide Water Main Renewal with Data-Driven Precision	Cybersecurity 101 for Water Engineers	Underground Utility Locating and Potential Benefits Inside the Fence	Holistic Approaches to Advanced Water Treatment: Evaluating PFAS Removal and Auxiliary Benefits in Public Utility Systems	Managing and Leading a Hybrid Workforce	Heroic Efforts in the Potomac River
11:30 AM	Resilience and Innovation: Inspecting and Assessing the Anacostia Force Main to Safeguard DC's Critical Wastewater Infrastructure	Holistic Process Optimization of Water Resource Recovery Facilities using Reinforcement Learning	Construction Update from Back River WWTP: Egg-Shaped Digester Rehabilitation	Digital Tools for Advanced PFAS Treatment – Case Study of a Mid-Sized Water Utility	Air Quality Monitoring and Testing During CIPP Installation for Water Mains: A DC Water Case Study	The Pipeline Puzzle: Investigating the Performance Issues in the James Run Force Main
12:00 PM	Emergency Response for 30-Inch PCCP at Anacostia Drive: Leveraging Pipeline Assessment Technology for DC Water	Digital Twin of Warehouse Operations	Out with the Old, in with the New: Centrifuge Dewatering at the Mauldin Road WRRF	Novel Micro-Sorbent Adsorption/Separation Alternative to using RO, GAC and IX for PFAS Removal	Using Nextdoor for Water Quality Public Notifications: A Case Study	Richmond Large Diameter Geopolymer Sewer Rehab 2018 to 2024. A Look Back and Current Day.
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	Asset Management	Utility Management	Wastewater Treatment	Water Treatment	Utility Management	Water Distribution
2:00 PM	Climate Resilience Assessment at the Back River Wastewater Treatment Plant: A Collaborative approach using Design Based Education	Regional Cooperation and Coordination for Water Resource Planning for Metropolitan Washington Drinking Water Sources Supply	We Will Grit By! An Increasingly Complex Grit System Rehabilitation	The Harford County roadmap for Liquid Chromatography/Tandem Mass Spectrometry PFAS testing.	Try Before You Buy – Launching a Successful Employee Mentorship at Your Utility	Service Line Material Identification Without Excavation: Results from DC Water's Pilot Study
2:30 PM	Patuxent Reservoirs Watershed Protection using GIS	Baltimore's Comprehensive Watershed Management Plan: A Template for Regional Source Water Protection	Seven Habits of Highly Effective PFAS Source-Trackers	PFAS Treatment for Surface Water: Not your Average Groundwater	WSSC Water's Strategic Planning plus 145 team members and 1,800 employees	Threading the Needle: Building Dual 42 Mains in Becks Run Road to Keep Pittsburgh's Water On
3:00 PM	Collaborative Water Supply Modeling to Support Loudoun Water Planning and Operations	Advancing Master Planning Techniques: Demand Forecasting for Comprehensive Infrastructure Planning	Enhancing Wastewater Pump Station Rehabilitation with Advanced Tools and Collaboration	Development of Flexible GAC/IX PFAS Pilot Skid and Lessons Learned	Introduction to MD WARN (Maryland's Water/Wastewater Agency Response Network)	Upgrading the Catonsville Pump Station: A Comprehensive Approach to Rehabilitation and Sustainability
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	Innovation	Water/Stormwater	Wastewater Treatment	Water Treatment	Utility Management	Water Distribution
4:00 PM	Secondary Treatment Intensification: MOB Process Trial to Enhance Capacity and Improve Sludge Settability at Midwest WWTP	Without the Labs You Are Only Guessing: Why Lab Data is Also Front Line in Operations for the Department of Public Works	How simple programming changes can lead to significant automation and optimization of plant operations	We Deserve the Best – An Introduction to AWWA's New Single Use Ion Exchange Standard and How It Can Be Used for Projects	Building a UAS Program to Support Water & Wastewater Operations at WSSC Water	Get that Pumping Station Out of the Way
4:30 PM	Got a Need for Speed? Using (Ultra)Sonic Technology to Mitigate Algal Blooms Now	Using CMAC Technology to Meet Chesapeake Bay TMDL Goals in Montgomery County, MD	Keeping it Pumping: Replacing an influent pump station while maintaining plant operations	Resilient Ripples: Upgrading Small Water Systems in Virginia for a Sustainable Future?	Smart Program Management – Digital Solutions Through a Single Source of Truth	City of Elyria - Transmission Mains Condition Assessment
5:00 PM	Community Engineering Corps - Supporting Sustainable Community-Driven Water & Wastewater Infrastructure Solutions Through Equity	Creating a Stormwater Authority – Everything You Need to Know	Nanobubbles: Intensifying Wastewater Treatment & Nutrient Removal While Mitigating Process Inhibition and Seasonal Upsets	Go with the Flow: Upgrading Phoenixville's Water Intake, One Pipe at a Time	Aligning Organizational and Facility Assessments to Holistically Plan for the Future	Collaborative Problem Solving between Owners and Contractor for a Win-Win outcome: The Allentown Water Main Replacement Project

Friday August 29, 2025

Name: _____

	Room 201	Room 202	Room 203-204	Room 205	Room 207-208	Room 215	Room 217
	Clean Energy/ Workforce	Utility Management	Wastewater Treatment	Ethics	Water Treatment	Utility Management	Wastewater Treatment
9:00 AM	Biogas/RNG Project Lifecycle - From study to clean energy production	Considerations for Structural lining of 36" and 54" reinforced concrete sewer pipes under Livingston Road	Data-Driven Insights: Using Performance Metrics to Drive Operational Efficiency in Wastewater Treatment	ETHICS Project Managers and Contractors – Working Together Ethically	Lessons to address PFAS and other emerging contaminants in source water	A DC Water EnviroCure® Pilot Study for air quality monitoring and testing during CIPP installation in downtown D.C.	Once upon a pelletizer: the holistic tale of optimizing a contract-operated biosolids drying facility
9:30 AM	How DC Water's Workforce Development Program Drives their Lead Service Line Replacement Program	Building Resilience and Adapting to Climate Change Impacts for Drinking Water and Wastewater Utilities	Developing a Framework for Demonstrating the Viability of Thermal Processing of Biosolids in Anne Arundel County		Small Communities, Big Water Treatment	DC Water at Work: Effective Management of Century-Old Collection System	Combining thermal hydrolysis with advanced thermal conversion processes for micro-contaminant destruction
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	Asset/Utility Management	Operations	Wastewater		Treatment	Utility Management	Planning/ Wastewater
10:15 AM	Utilizing AI to Improve Continuity in Data Coding, Increase Project Turnaround Time, and Reduce Overall Project Costs.	Navigating the Waves of an Advanced Metering Infrastructure Upgrade in Howard County	Strategic Solids Management: A 20-Year Roadmap for Sustainability and Resource Recovery		Comprehensive Bench-Scale Study on Multi-Contaminant Removal: Addressing PFAS, TOC, and Algal Toxins	Howard County's Integrated Strategies for Protecting Linear Infrastructure in Environmentally Sensitive Areas	Integrating WARN in RRAs & ERPs
10:45 AM	Will it work? Piloting new condition assessment technologies. A guideline for utilities	Aces in the Hole: The Benefits of Plant Operators on the Design Team for a Major WWTP Process Upgrade	Evaluating the Future of Biosolids Composting: Market Trends, Challenges, and Strategic Insights from a Regional Case Study		Solving Forever Chemicals in Under Five Years: Aqua PA's PFAS Program	Lessons Learned from the Rehabilitation of a Large Diameter Storm Pipe	Direct comparison between thermal hydrolysis and thermophilic digestion as alternatives for Class A biosolids management
11:15 AM	Leveraging the Toolbox to Find Significant I/I	Enhancing Operator Competency: Implementing and Sustaining Skill-Based Learning Programs in Water Utilities	Decision Science Tools: Knowing When to Take the Road Less Traveled		Odor Management at Annapolis WRF: Responding to Community Concerns with Data-Driven Solutions	The Bigger Picture: How Utilities Can Technology and Innovation Landscape Insights To Meet Day to Day Challenges	Biosolids Management Planning – Evaluating Technologies for the Long-Term

Tuesday August 26, 2025
Pre-Conference Workshop

Room 205-206
1:00 PM - 5:00 PM
Pre-Conference Workshop: Asset Management
3.5 hr. Non-Process TRE-xxxxx

Operator Classes
Room 210, Second Floor

Wednesday 8:00 AM - 12:00 PM	Thursday 8:30 AM - 12:30 PM
Well Operation and Maintenance	Math for Water and Wastewater
3.5 hr. TRE-xxxxx	3.5 hr. TRE-xxxxx
Wednesday 1:00 PM - 5:00 PM	Thursday 2:00 PM - 5:30 PM
Understanding the Dangers of and Treatment Methods for PFAS and Emerging Contaminants	Backflow Prevention Overview
3.5 hr TRE-xxxxx	3.0 hr TRE-xxxxx