

96th Water Environment Federation Technical Exhibition and Conference (WEFTEC 2023)

The Water Quality Event

Chicago, Illinois, USA
30 September – 4 October 2023

Volume 1 of 4

ISBN: 978-1-7138-8036-3

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Quenching Big-data's Thirst: A Novel Water Recycling Strategy for Datacenter Cooling & Community Reuse	10/3/2023	2:00 PM	The Future of Datacenters: From Water Users to Water Stewards	1:30 PM	Liberzon, Jon	1518
Mechanistic Modelling Within a Hybrid Controller	10/3/2023	2:25 PM	Applications of Machine Learning in Full-Scale Nutrient Management Part I	1:30 PM	Yang, Cheng	1527
Sludge Densification and Low DO BNR: Anaerobic Selectors are the Key!	10/3/2023	2:30 PM	Advancing Low-energy Biological Nitrogen and Phosphorus Removal Through Low DO Operation	1:30 PM	Sturm, Belinda	1537
The Impact Of Process Parameters On The Amount Of Micropollutant In The Generated End Products During Sewage Sludge Pyrolysis	10/3/2023	2:30 PM	Behavior of Emerging Contaminants in Thermal Treatment Processes	1:30 PM	Schleederer, Felizitas	1545

Presentation Title	Date of Presentation	Start Time	Session Title	Session Start Time	Speaker	
Quantitative DNA Stable Isotope Probing To Identify Active Phosphate Accumulating Organisms Within a Side-stream Enhanced Biological Phosphorus Removal Process	10/3/2023	2:30 PM	Connecting Molecular Biology Sensors to EBPR Performance	1:30 PM	Sampara, Pranav	1553
Impact of Carbon Choice for PdN in Integrated PdNA System with Methanol Polishing	10/3/2023	2:30 PM	Lessons Learned from Early PdNA Implementation	1:30 PM	Seidel, Alexander	1563
Mission Accomplished: Port Huron Completes CSO Control Program Through Comprehensive Plan and Attention to Detail	10/3/2023	2:30 PM	Long-term Control Planning and Consent Decree Orders	1:30 PM	Hufnagel, Carol	1576
How to Plan for PFAS in Carbon-based Potable Reuse Implementation	10/3/2023	2:30 PM	Making Forever Chemicals Gone Forever	1:30 PM	Hunter, Amy	1589
Secondary Effluent is Not All Created Equal: Design Considerations for Potable Reuse Facilities	10/3/2023	2:30 PM	Reconsidering Biological Treatment for Water Purification: Reuse-nutrient Removal-nexus I	1:30 PM	Sawyer, Linda	1596
Decentralized Wastewater Treatment and Reuse Using a Household-scale Constructed Wetland (Mexico City)	10/3/2023	2:30 PM	Small Communities Utilize Decentralization Effectively	1:30 PM	Garcia-Becerra, Flor	1606
Recognizing Value in an Open-architecture Digital Water System: San Jacinto River Authority's Approach to Becoming a Smart Water Utility	10/3/2023	2:30 PM	Stories of Digital Transformation: It's Not About the Journey but the Destination	1:30 PM	Dent, Shawn	1614
Innovative Application of Green Infrastructure in Public Spaces in Northeast USA	10/3/2023	2:30 PM	Stormwater Design Case Studies	1:30 PM	Carlson, Emily	1630
Cost-Effective Solution to Siloed WWTP and CSO Administrative Orders	10/3/2023	3:30 PM	Better Outcomes with CSO Administrative Orders and Consent Degrees	3:30 PM	Laliberte, Joseph	1642
Using Adaptive Communications to Encourage Septic Conversion Through a Community-driven Process	10/3/2023	3:30 PM	Communications Plans and Actions: Septics, Source Control, and Stakeholders	3:30 PM	He, Ziwei	1649
Data-based Headworks Design: The Value of Field Test Data for Screening Design	10/3/2023	3:30 PM	Design Tools and Technologies for Preliminary and Primary Treatment	3:30 PM	Young, Thor	1663

Presentation Title	Date of Presentation	Start Time	Session Title	Session Start Time	Speaker	
Buoyancy-enhanced Membrane Filtration for Oilfield and Industrial Water Reuse	10/3/2023	3:30 PM	Membrane Filtration and Zero Liquid Discharge (ZLD) Wastewater Treatment System	3:30 PM	Christou, Peter	1674
UV Disinfection in New Zealand's Non-codified Regulatory Environment Using QMRA for Risk Assessment	10/3/2023	3:30 PM	Novel Applications of QMRA For Sizing Wastewater UV Systems and Identifying Shellfish Harvesting Zones	3:30 PM	Crawford, John	1685
Flood Alert System Implementation: Unexpected Questions You Will Want to Ask	10/3/2023	3:30 PM	Predicting Flooding Before It Happens	3:30 PM	Burger, Caroline	1712
Tuas WRP: A Resource Recovery Factory	10/3/2023	3:30 PM	Refining Wastewater Effluent for Purification: Reuse-nutrient Removal-nexus II	3:30 PM	Newbery, Colin	1718
Small System with Large Challenges: Operating a Wastewater Treatment Plant that Does Not Follow the Rules	10/3/2023	3:30 PM	Small Community Applications of Decentralization and Associated Management Approaches	3:30 PM	Zahller, Jeffrey	1729
Stormwater Permitting for the Rest of Us: The Use of USEPA's Residual Designation to permit Commercial, Industrial, and Institutional Properties Not Already Covered Under a Stormwater Permit	10/3/2023	3:30 PM	Stormwater Capture and Release: Emerging Regulatory Paradigms	3:30 PM	Haimann, Richard	1746
Dissolved Air Flotation for Secondary Clarification of Refinery Wastewater: Technology Selection Through Full-scale Performance	10/3/2023	3:30 PM	The A to Z's of Refinery Wastewater Treatment	3:30 PM	Allen, Jeffrey	1751
Clean Water Services ODIN Pilot Case Study	10/3/2023	3:35 PM	Case Studies of Machine Learning in Full-Scale Nutrient Management Part II	3:30 PM	Menniti, Adrienne	1766
Creating Renewable Revenue Streams with RNG: Lessons Learned from WRRF RNG Installations	10/3/2023	3:50 PM	Creating Renewable Revenue Streams with RNG	3:30 PM	Prevatt, Jeff	1773
Ten Years of Risk Management and Lessons Learned on Clean Water Nashville Program	10/3/2023	4:00 PM	Better Outcomes with CSO Administrative Orders and Consent Degrees	3:30 PM	Krabacher, Michael	1786

Presentation Title	Date of Presentation	Start Time	Session Title	Session Start Time	Speaker	
Agua Nueva WRF: Piloting Experience of Machine Learning Hybrid Nutrient Controller	10/3/2023	4:00 PM	Case Studies of Machine Learning in Full-Scale Nutrient Management Part II	3:30 PM	Johnson, Bruce	1801
Pursuing Bioenergy Projects in a Dynamic Funding Environment	10/3/2023	4:00 PM	Creating Renewable Revenue Streams with RNG	3:30 PM	Valenti, Alexis	1809
Clean Chemistry Lowers the Cost-to-Treat by Improving Wastewater Treatability and Increasing Capacity: A Case Study on Nanobubble Pretreatment	10/3/2023	4:00 PM	Design Tools and Technologies for Preliminary and Primary Treatment	3:30 PM	Crisman, John	1825
Techno-economic Evaluation to Optimize a ZLD Wastewater Treatment System at A Western US Utility	10/3/2023	4:00 PM	Membrane Filtration and Zero Liquid Discharge (ZLD) Wastewater Treatment System	3:30 PM	Schmit, claire	1835
Regional Smart Sensor Analytics Inform Public of Flooded Roads	10/3/2023	4:00 PM	Predicting Flooding Before It Happens	3:30 PM	Flis, Kevin	1843
Pilot-scale Validation of Tertiary MBR Design Concepts for Potable Reuse in Southern California	10/3/2023	4:00 PM	Refining Wastewater Effluent for Purification: Reuse-nutrient Removal-nexus II	3:30 PM	Deco, Rachel	1856
Cold, Remote Nutrient Removal: Lessons Learned from First Nations Communities	10/3/2023	4:00 PM	Small Community Applications of Decentralization and Associated Management Approaches	3:30 PM	Kruk, Damian	1883
Managing Stormwater Within the Functional Equivalent Framework	10/3/2023	4:00 PM	Stormwater Capture and Release: Emerging Regulatory Paradigms	3:30 PM	Van Ammers, Fiona	1899
Coupling MBR with PAC at Minnesota's Largest Oil Refinery: Effects on Clarifier Performance, Water Quality, and Reuse	10/3/2023	4:00 PM	The A to Z's of Refinery Wastewater Treatment	3:30 PM	Chakraborty, Tulip	1913
Prediction of Wastewater Treatment Greenhouse Gas Emissions Using a Real-Time Model	10/3/2023	4:15 PM	From Global Best Science to Mitigation of Nitrous Oxide	3:30 PM	Hume, David	1925
Dance of the Machines at AlexRenew WRRF: Piloting Experience of Machine Learning Hybrid Nutrient Controller	10/3/2023	4:25 PM	Case Studies of Machine Learning in Full-Scale Nutrient Management Part II	3:30 PM	Oristian, Monica	1943

Presentation Title	Date of Presentation	Start Time	Session Title	Session Start Time	Speaker	
City of South Bend, Indiana Revised Consent Decree Basis and WWTP Equalization Basin Design Approach	10/3/2023	4:30 PM	Better Outcomes with CSO Administrative Orders and Consent Degrees	3:30 PM	McCormack, Jordan	1954
Better Settling Through Design Optimization: A CFD Case Study	10/3/2023	4:30 PM	Design Tools and Technologies for Preliminary and Primary Treatment	3:30 PM	Beaton, Nigel	1970
Cost of Removing PFAS from WRRF Effluent and Biosolids	10/3/2023	4:30 PM	PFAS Impacted WRFs: Knowledge Update	3:30 PM	Ling, Alison	1980
Creating Affordable Multi-benefit Flood Solutions Within a CSO Basin Requires Bigger Thinking	10/3/2023	4:30 PM	Predicting Flooding Before It Happens	3:30 PM	Sauer, Andrew	1994
Sustainable Membrane Performance for Refinery Reuse of Non-nitrified Wastewater	10/3/2023	4:30 PM	Refining Wastewater Effluent for Purification: Reuse-nutrient Removal-nexus II	3:30 PM	Cauble, Amanda	2012
Reuse of High-strength Wastewater from Biodiesel Manufacturing	10/3/2023	4:30 PM	The A to Z's of Refinery Wastewater Treatment	3:30 PM	Colic, Miroslav	2035
Emerging AI Technologies and Ways of Working to Optimize Water	10/4/2023	8:30 AM	Emerging AI Technologies and Ways of Working to Optimize Water	8:30 AM	Paya, Karol	2052
Chemical Phosphorus Removal: All You Need to Know about Which One to Choose and Where and How Much to Add?	10/4/2023	8:30 AM	Chemical Phosphorus Removal	8:30 AM	Neethling, JB	2063
Sewer Separation in Downtown Kansas City: A Balancing Act	10/4/2023	8:30 AM	Design and Construction Challenges for CSO Control Implementatioin	8:30 AM	Harper, Bridget	2072
The Big One That Did Not Get Away: Pilot Testing to Reach 12 Âµg TP/L in a Hatchery Effluent	10/4/2023	8:30 AM	Food and Aquaculture Wastewater Treatment	8:30 AM	Mehrdad, Mahsa	2088
Using a Bench Scale Test to Evaluate Anaerobic Digesters Stability and Capacity	10/4/2023	8:30 AM	Intensifying and Optimizing Anaerobic Digestion	8:30 AM	Sosa-Hernandez, Ornella	2097
The Good, the Bad, & the Ugly: Selecting the Right Nutrient Reduction BMP for Your Specific Circumstances	10/4/2023	8:30 AM	Let Me Know About BMPs	8:30 AM	Leo, Steve	2114

Presentation Title	Date of Presentation	Start Time	Session Title	Session Start Time	Speaker	
Moving Towards PdNA Demonstration at Blue Plains AWWTP Using Primary Sludge Fermentate	10/4/2023	8:30 AM	PdNA Whole Plant Considerations	8:30 AM	Ladipo-Obasa, Mojolaoluwa	2129
Application of an Upflow Anaerobic Baffled Reactor for Mainstream Treatment of Domestic Wastewater	10/4/2023	8:30 AM	Re-direct Carbon for Better Use	8:30 AM	Coffey, Carolyn	2136
Overcoming the Challenges of a Minimum Continuous UV Dose Requirement for Disinfection of Secondary Effluent	10/4/2023	8:30 AM	UV Disinfection: Where are we? Where are we going?	8:30 AM	Hross, Matt	2144
Economics of Potable Reuse with Partial Reverse Osmosis Treatment Schemes for Inland Communities	10/4/2023	8:30 AM	Water Reuse: Challenges and Opportunities	8:30 AM	Arabi, Sara	2151
Regional Supercritical Water Oxidation Facility for PFAS-laden Industrial Pretreatment Wastes	10/4/2023	8:35 AM	Approaches to PFAS Destruction and Centralized Treatment	8:30 AM	Ling, Alison	2175
The Saddle Creek RTB: A Storage and Treatment Solution for CSO	10/4/2023	9:00 AM	Design and Construction Challenges for CSO Control Implementatioin	8:30 AM	Weiland, John	2183
Salty Food Waste Conversion to Bioplastics	10/4/2023	9:00 AM	Food and Aquaculture Wastewater Treatment	8:30 AM	Zhang, Xueyao	2198
To What Extent Can Solids Retention Time Be Reduced Without Deteriorating the Performance of the Thermal Hydrolysis Pretreatment-enhanced Mesophilic Anaerobic Digestion	10/4/2023	9:00 AM	Intensifying and Optimizing Anaerobic Digestion	8:30 AM	Li, Yitao	2201
Fox River Implementation Plan: A Roadmap for Improved Water Quality for the Fox River, Illinois	10/4/2023	9:00 AM	Let Me Know About BMPs	8:30 AM	Mahajan, Rishab	2207
Successful Implementation of Biofilm Anammox in IFAS A2O Process for Simultaneous N and P Removal in Main Stream Treatment Train	10/4/2023	9:00 AM	PdNA Whole Plant Considerations	8:30 AM	Goel, Ramesh	2225
Exploring the Relationship Between Carbon Redirection, Microbial Ecology, and Operational Strategies in High-rate Contact Stabilization (HiCS) Process	10/4/2023	9:00 AM	Re-direct Carbon for Better Use	8:30 AM	He, Leiyu	2238
Resilience, Sustainability, and Risk of Intermittent UV LP And LED Systems	10/4/2023	9:00 AM	UV Disinfection: Where are we? Where are we going?	8:30 AM	Pimentel, Anthony	2248

Presentation Title	Date of Presentation	Start Time	Session Title	Session Start Time	Speaker	
The Future is Now: Concentrate Management is Transforming Municipal and Industrial Water Supply	10/4/2023	9:00 AM	Water Reuse: Challenges and Opportunities	8:30 AM	Manikonda, Abhisek	2257
Designing & Integrating Toronto's Largest Sanitary/Combined Sewer Overflow Pumping Station	10/4/2023	9:30 AM	Design and Construction Challenges for CSO Control Implementation	8:30 AM	Schlotzhauer, Pat	2276
Novel Modular Treatment System for Distributed Energy Recovery and Water Reclamation from Industrial Wastewaters	10/4/2023	9:30 AM	Food and Aquaculture Wastewater Treatment	8:30 AM	Ajayi, Olutooni	2291
Thermal and Microbial Sludge Hydrolysis Processes: Evaluating Their Role in Sustainable Water Resource Recovery Applications	10/4/2023	9:30 AM	Intensifying and Optimizing Anaerobic Digestion	8:30 AM	Nielsen, Per	2298
Combination of EBPR, Endogenous Denitrification, Partial Nitrification/Denitrification and Anammox to Achieve Cost-effective Nutrient Removal	10/4/2023	9:30 AM	PdNA Whole Plant Considerations	8:30 AM	WANG, JIEFU	2306
Manipulating the Operational Parameters to Achieve Balance COD Diversion, COD Removal, and Phosphorus Removal in AAA as a Novel A-stage Variant	10/4/2023	9:30 AM	Re-direct Carbon for Better Use	8:30 AM	Alsayed, Ahmed	2309
A Pilot-Scale Study of Flow-through Ultraviolet-Light Emitting Diodes (UV-LEDs) System for Secondary Municipal Wastewater Effluent Disinfection	10/4/2023	9:30 AM	UV Disinfection: Where are we? Where are we going?	8:30 AM	Oh, Yoontaek	2319
Quantification of Carbon Emissions in Potable Reuse Treatment Configurations	10/4/2023	9:30 AM	Water Reuse: Challenges and Opportunities	8:30 AM	Wagner, Brett	2330
Anaerobic Treatment of Industrial Wastewaters with Anaerobic Moving-bed Biofilm Reactors (AnMBBRs)	10/4/2023	10:30 AM	Advancements in Anaerobic Treatment of Industrial Wastewater	10:30 AM	Morgan-Sagastume, Fernando	2340
Validating Sediment Predictions In Major Collection Systems: Insights From The London Tideway Tunnels	10/4/2023	10:30 AM	BAP Tunnels and Interceptors	10:30 AM	Plant, Joss	2350
Assessing the Impact of Hydrogen Production on Water Resources in Scotland	10/4/2023	10:30 AM	Building A Hydrogen Future	10:30 AM	Campbell, Patrick	2374

Presentation Title	Date of Presentation	Start Time	Session Title	Session Start Time	Speaker	
Combating Environmental Racism Through Stormwater Retrofit Project Prioritization	10/4/2023	10:30 AM	Leveraging Stormwater Infrastructure to Build a Better Community	10:30 AM	Nichols, Kari	2384
Electricity Renewable Identification Number Update	10/4/2023	10:30 AM	Making Money from Biogas: RNG to RINs	10:30 AM	Whitlock, Drury	2399
Evidence of Antibiotic Resistant Genes Sorbed to Microplastics in Biosolids and Mobilized to Runoff	10/4/2023	10:30 AM	Microplastics Interaction with Pathogens and Other Microconstituents	10:30 AM	Sturm, Belinda	2412
Maximizing Operator Involvement Through CMAR: Keeping Avon WWTF Running Through 3 Years of Construction	10/4/2023	10:30 AM	Project Delivery Challenges: Continued Operations and Commissioning	10:30 AM	Berlin, Jeffrey	2420
Charlotte Water's Sewer Rehabilitation Program: Clear Direction, Quick Decisions, Streamlined Construction, Proven Success	10/4/2023	10:30 AM	Public and Private Rehabilitation Strategies for I/I Reduction	10:30 AM	Frazier, Aaron	2427
Can Anyone in California Make a Circle? Case Studies from Unique Clarifier Assessments at California WRFs	10/4/2023	10:30 AM	Secondary Clarification Advancements	10:30 AM	Chu, Irene	2434
Addressing Affordability in San Antonio with a Separate Rate Structure	10/4/2023	10:30 AM	Solving Customer Affordability Concerns With Innovative Rate Structure	10:30 AM	Ivey, Jennifer	2450
Meeting the Demands of the Future: Revolutionizing Your Workflows to Achieve More With Less	10/4/2023	10:30 AM	Strategies for Transformational Change, Innovation, and Operational Efficiency	10:30 AM	Siegrist, Justin	2458
Planning for an Uncertain Future: Flexible Implementation of Potable Reuse in Santa Clara County, CA	10/4/2023	10:30 AM	Water Reuse: Plan It Properly	10:30 AM	Gain, Jenny	2478
Improving Clarifier Models by Describing Extracellular Polymeric Substances	10/4/2023	10:35 AM	Pushing the Boundaries of Our Biological Models	10:30 AM	Ngo, Nam	2490
Principles of Mathematical Modeling for PdNA Processes	10/4/2023	10:50 AM	Pushing the Boundaries of Our Biological Models	10:30 AM	Izadi, Parin	2495
Next Generation Anaerobic Digestion Technology Selection and Treatability Testing	10/4/2023	11:00 AM	Advancements in Anaerobic Treatment of Industrial Wastewater	10:30 AM	Horai, Edward	2515

Presentation Title	Date of Presentation	Start Time	Session Title	Session Start Time	Speaker	
The Perils of Interceptor Surcharging: Unintended Consequences of In-line Storage	10/4/2023	11:00 AM	BAP Tunnels and Interceptors	10:30 AM	Shelton, James	2531
WRRFs as a Hub for Green Hydrogen Production	10/4/2023	11:00 AM	Building A Hydrogen Future	10:30 AM	Reifsnnyder, Samuel	2548
Adapting to What Flows Down the Pipe: Full-scale Bio-P Optimization Following Changes in the Collection System	10/4/2023	11:00 AM	Healthy As A Horse? Assessing Bio-P Stability	10:30 AM	Ram Mohan, Gayathri	2560
The Full Benefits Package: Park Redevelopment for the Environment and Community	10/4/2023	11:00 AM	Leveraging Stormwater Infrastructure to Build a Better Community	10:30 AM	Fussel, Jason	2569
Digester Gas to Biomethane: Design, Construction, and Operation Lessons Learned	10/4/2023	11:00 AM	Making Money from Biogas: RNG to RINs	10:30 AM	Locke, Laura	2578
Degradable Microplastics as Vector of Emergent Contaminants in Wastewater: Interactions and Mechanisms of Adsorption	10/4/2023	11:00 AM	Microplastics Interaction with Pathogens and Other Microconstituents	10:30 AM	Djebbari, Khaled	2590
Mr. Floatie Has Retired: Lessons Learned During Commissioning of a Greenfield Wastewater Treatment Plant in Victoria BC	10/4/2023	11:00 AM	Project Delivery Challenges: Continued Operations and Commissioning	10:30 AM	Gupta, Sophia	2620
Planning Public and Private I/I Reduction Program that Ensures Performance and Maximizes Participation for The Region of York	10/4/2023	11:00 AM	Public and Private Rehabilitation Strategies for I/I Reduction	10:30 AM	Gheith, Hazem	2632
Better Clarification from the "Floor Baffle" Up	10/4/2023	11:00 AM	Secondary Clarification Advancements	10:30 AM	Chapa, Rebecca	2653
Approaches for Leveraging Technology for O&M Centered Designs	10/4/2023	11:00 AM	Strategies for Transformational Change, Innovation, and Operational Efficiency	10:30 AM	deBarbadillo, Christine	2668
Process Modeling of Pulp and Paper Wastewater Treatment Ponds	10/4/2023	11:00 AM	Using Modeling to Improve Industrial Wastewater Treatment	10:30 AM	Frank, Kevin	2673
Advancing Water Reuse Through a One Water Planning Approach for the Clay County Utility Authority in Florida	10/4/2023	11:00 AM	Water Reuse: Plan It Properly	10:30 AM	Rodrigo, Dan	2685
Mobile Biofilms for Biological Nutrient Removal and Wastewater Treatment Process Intensification	10/4/2023	11:15 AM	Pushing the Boundaries of Our Biological Models	10:30 AM	Boltz, Joshua	2694

Presentation Title	Date of Presentation	Start Time	Session Title	Session Start Time	Speaker	
Horizontal Directional Drilling of 7 miles of Large Diameter Forcemain Through Downtown Fort Lauderdale	10/4/2023	11:30 AM	BAP Tunnels and Interceptors	10:30 AM	Davila, P.E., Daniel	2716
Simultaneous Biogas Purification and Hydrogen Production Using a Novel Electrochemical Reactor	10/4/2023	11:30 AM	Building A Hydrogen Future	10:30 AM	Lippert, Thomas	2732
Developing Approaches for Achieving Biological Phosphorous Removal and Improved Settleability in High-rate Activated Sludge Systems	10/4/2023	11:30 AM	Healthy As A Horse? Assessing Bio-P Stability	10:30 AM	Ngo, Nam	2733
Building an Equitable Stormwater Program for an Environmental Justice Community: Stormwater Authority of the City of Chester (SAC), PA	10/4/2023	11:30 AM	Leveraging Stormwater Infrastructure to Build a Better Community	10:30 AM	Pise, Adi	2738
Renewable Natural Gas from Anaerobic Digestion with Combined Heat and Power Recovery Transforms Biosolids Management at the City of Grand Rapids, Michigan Water Resource Recovery Facility	10/4/2023	11:30 AM	Making Money from Biogas: RNG to RINS	10:30 AM	Daukss, Peter	2746
Blueprint Columbus: Comprehensive Public and Private I/I Reduction Program Exceeds Target	10/4/2023	11:30 AM	Public and Private Rehabilitation Strategies for I/I Reduction	10:30 AM	Cheng, Fang	2762
Model-based Investigation of the Fate and Transport of Internal and External Carbon Sources to Drive Partial deNitrification (PdN)-based Nitrogen Removal Processes	10/4/2023	11:30 AM	Pushing the Boundaries of Our Biological Models	10:30 AM	Al-Omari, Ahmed	2781
Densification Specific Considerations for Secondary Clarifier Assessments	10/4/2023	11:30 AM	Secondary Clarification Advancements	10:30 AM	Martin, Will	2785
Technology Evaluation Framework Opens Pathway to Adoption of Emerging and Innovative Technologies	10/4/2023	11:30 AM	Strategies for Transformational Change, Innovation, and Operational Efficiency	10:30 AM	Metch, Jacob	2797
Advancing Desalination and Treatment of Non-Traditional Source Water: The First 3.5 Years of the National Alliance for Water Innovation (NAWI)	10/4/2023	1:30 PM	Advancing Desalination and Treatment of Non-traditional Source Water	1:30 PM	Fiske, Peter	2810

Presentation Title	Date of Presentation	Start Time	Session Title	Session Start Time	Speaker	
Process Roadmaps to Low DO Operations – Lessons Learned from a North American Survey on Suboxic and Low DO Activated Sludge Facilities	10/4/2023	1:30 PM	Conversion of Conventional Activated Sludge to Suboxic (Low DO) Nutrient Removal	1:30 PM	Young, Michelle	2820
Application of Non-intrusive Sensors and Edge Computing for Condition-based Monitoring of Biogas Compressors	10/4/2023	1:30 PM	Advances in Preventative Maintenance	1:30 PM	Li, Zhongtian	2828
Doing More with Less: Refining the Westbank Biological Nutrient Removal Process to Achieve Aerobic Granular Sludge While Enhancing Performance	10/4/2023	1:30 PM	Applying Hydrocyclones for Densification	1:30 PM	Galvagno, Giampiero	2837
Leveraging Innovative Technologies and Assessment Approaches to Support Data-driven Interceptor Asset Management at the Milwaukee Metropolitan Sewerage District	10/4/2023	1:30 PM	Collection System Predictive Analysis	1:30 PM	Youngblood, Doug	2845
A Numerical Comparison of Three Sewer Infiltration Models	10/4/2023	1:30 PM	Conveyance Modeling	1:30 PM	Edgren, David	2855
Prioritizing and Implementing Resiliency Projects with Environmental and Social Benefits: The Living with the Bay Program	10/4/2023	1:30 PM	Creating Resilience with Stormwater Projects	1:30 PM	Bomar, Michael	2881
Old Tampa Bay Tidal Circulation Water Quality Improvements	10/4/2023	1:30 PM	From Fish Passage Design to Ocean Discharges: Going Coastal	1:30 PM	Paynter, Shayne	2893
Potomac Interceptor Long-term Corrosion Prevention Program: DC Water Using Innovative Tools to Support Strategy Development	10/4/2023	1:30 PM	Managing the Third Effluent Part II	1:30 PM	Yilma, Eyasu	2922
Leveraging Big Data Platforms in Water and Wastewater to Accelerate Machine Learning Optimization at a Regional Scale	10/4/2023	1:30 PM	Planning and Process Improvement Case Studies: Winning with Twinning	1:30 PM	Registe, Joshua	2933
Removal of Fluorinated Active Pharmaceutical Ingredients Using Membrane Concentration and Electrochemical Oxidation	10/4/2023	1:30 PM	Removing Emerging Contaminants: Beyond PFAS	1:30 PM	Milburn, Geoffrey	2953
Is It Time to Replace the Belt Presses? Why Dewatering is More Than Just Getting the Water Out!	10/4/2023	1:30 PM	Upgrading and Optimizing Thickening and Dewatering	1:30 PM	Goss, Terry	2978

Presentation Title	Date of Presentation	Start Time	Session Title	Session Start Time	Speaker	
Facilitating Sustainable Fishery in the Potomac River with Innovative Hydraulics	10/4/2023	1:50 PM	From Fish Passage Design to Ocean Discharges: Going Coastal	1:30 PM	Odeh, Mufeed	2991
The Devil's In The Details: How Advanced Pattern Recognition Can Predict Equipment Failure	10/4/2023	2:00 PM	Advances in Preventative Maintenance	1:30 PM	Villar, Giselle	3005
Densification with Hydrocyclones: From Concept to Reality for BNR Improvements in Wichita, Kansas	10/4/2023	2:00 PM	Applying Hydrocyclones for Densification	1:30 PM	Doody, Alexandra	3016
Lessons Learned in 18 Months of Deploying Machine Learning for Predictive Operational Support	10/4/2023	2:00 PM	Collection System Predictive Analysis	1:30 PM	Ranck, Christopher	3031
'Peaking' into the Future: A New Methodology for Sizing Peak Flow Storage - Trinity River Authority of Texas Develops Innovative New Approach	10/4/2023	2:00 PM	Conveyance Modeling	1:30 PM	Davies, Tom	3041
Designing for Climate Change: Flood Risk Mitigation Using Optimization (Alexandria, VA)	10/4/2023	2:00 PM	Creating Resilience with Stormwater Projects	1:30 PM	Baldwin, Daniel	3050
What's that Smell? Proactively Pinpointing H2S in Pima County, AZ	10/4/2023	2:00 PM	Managing the Third Effluent Part II	1:30 PM	Daniels, Rudy	3064
Soft Sensing Influent Concentrations with Airflow Rates by Digital Twins: A Real Case Study from Oldham WwTW	10/4/2023	2:00 PM	Planning and Process Improvement Case Studies: Winning with Twinning	1:30 PM	Yang, Cheng	3071
Selective Adsorption of Nutrients and Pharmaceuticals from Source-separated Human Urine Using Modified Biochar	10/4/2023	2:00 PM	Removing Emerging Contaminants: Beyond PFAS	1:30 PM	Masrura, Sayeda Ummeh	3082
Impacts of Various Hydraulic and Solid Loading Conditions on Process Capability of Sludge Thickening with Thickening Centrifuges	10/4/2023	2:00 PM	Upgrading and Optimizing Thickening and Dewatering	1:30 PM	Li, Zhongtian	3087
Boxed In: Wastewater Effluent Discharge Challenges in a Coastal Environment	10/4/2023	2:10 PM	From Fish Passage Design to Ocean Discharges: Going Coastal	1:30 PM	Rudenko, Anastasia	3098
Preventive Maintenance Scheduling Optimization	10/4/2023	2:30 PM	Advances in Preventative Maintenance	1:30 PM	Dareing, Tron	3106
Floc, Film & Densified Sludge: Combining MABR & Continuous Flow Densification at the Yorkville-Bristol Sanitary District	10/4/2023	2:30 PM	Applying Hydrocyclones for Densification	1:30 PM	Astrand, Niclas	3118

Presentation Title	Date of Presentation	Start Time	Session Title	Session Start Time	Speaker	
Houston's Intelligent Planning Tool for Prioritizing and Optimizing Rehabilitation of Gravity Pipe	10/4/2023	2:30 PM	Collection System Predictive Analysis	1:30 PM	Rabbi, Fazle	3132
Why Model Real Time When You Can Model the Future? The Fort Wayne Experience	10/4/2023	2:30 PM	Conveyance Modeling	1:30 PM	Ranck, Christopher	3138
Making a Positive Difference: Planning for Climate-resilient One Infrastructure Projects in Vulnerable LA Communities	10/4/2023	2:30 PM	Creating Resilience with Stormwater Projects	1:30 PM	Luevano, Mara	3149
Protect the Fish: Predicting Ammonia Toxicity Risk in the Fraser River	10/4/2023	2:30 PM	From Fish Passage Design to Ocean Discharges: Going Coastal	1:30 PM	Gupta, Sophia	3159
Austin Water Integrated Approach to Odor Control: Sewer to Plant Considerations	10/4/2023	2:30 PM	Managing the Third Effluent Part II	1:30 PM	Romero, Adrien	3172
Reducing Wastewater Treatment Operational Expenditure, Carbon and Sensor Drift through Digital Innovation	10/4/2023	2:30 PM	Planning and Process Improvement Case Studies: Winning with Twinning	1:30 PM	Whitmore, Anna	3178
Treating a Problematic Sub-Micron Blue-Green Algae Dominated Pond Water with Aluminum Chemistry: An Economical Solution to Meet the NPDES Solids Permit Limit for the San Francisco Bay	10/4/2023	2:30 PM	Removing Emerging Contaminants: Beyond PFAS	1:30 PM	Wikramanayake, Rohan	3194
Towards More Reliable Dewatering Performance by Optimizing Polymer Dose Decision-making	10/4/2023	2:30 PM	Upgrading and Optimizing Thickening and Dewatering	1:30 PM	Ngo, Nam	3206