



# TECHNICAL PROGRAM

MONDAY, MAY 17, 2021

KEYNOTE ADDRESS			
1:00-2:00	A Federal Update – US Congressman <b>Sean Casten</b>		
	SESSION A	SESSION B	
	COVID STINKS! COVID AND ODOR CONTROL	UTILITY MANAGEMENT: PLANNING FOR AN AGING WORKFORCE	
Moderator	Colin Fitzgerald	Chris Buckley	
2:00-2:30	Assessing the Ecotoxicological Effects of Coronavirus Countermeasures on WRRF Performance <b>Bryan Coday</b> , Carollo Engineers	2:00-2:20	Flying Solo – Thoughts for Mentors and Mentees <b>Alan Grooms</b> , Madison Metropolitan Sewerage District
2:30-3:00	COVID-19 Modern Trash Loading Proves Sewage Pump Clog Resistance Can Not Be Predicted by Impeller Throatlet Size <b>Bob Domkowski</b> , Xylem, Inc.	2:20-2:40	Asset Management/CMMS <b>Paul Burris</b> , City of Elmhurst; <b>Megan Fox</b> , Baxter & Woodman
		2:40-3:00	Aging Operators Versus Technology <b>Jim Huchel</b> , City of Flagstaff, AZ
3:00-3:30	Odor Control and Whole Plant Considerations <b>Eric Redmond</b> , Black & Veatch	3:00-3:20	Leading through Challenges <b>Tim Juskiewicz</b> , Strand & Associates
3:30-4:00	Wastewater Odor Control using Hydrogen Peroxide and ORP <b>Brady Overton</b> , USP Technologies with Glenbard Wastewater Authority	3:20-3:40	Smart Water Utilities <b>Pablo Calabuig</b> , GoAigua Inc.
		3:40-4:00	Discussion

TUESDAY, MAY 18, 2021

SESSION C		SESSION D	
ADVANCED SECONDARY TREATMENT		WET WEATHER	
Moderator	Ryan Giefer	Emma Larson	
12:00-12:30	Continuous Monitoring of Nitrification Kinetics in a Low DO, Continuous Flow Granular Activated Sludge <b>Leon Downing</b> , Black & Veatch	Using Acoustic Inspection Technology to Prioritize Cleaning at Wastewater Utilities <b>Charlie Rotman</b> , InfoSense, Inc.	
12:30-1:00	Intensify! Membrane Bioreactors Expand Capacity <b>Glenn Tranowski</b> , Strand Associates, Inc.	When COVID Clouds the O&M Picture, IoT Technology Brings New Clarity <b>Jay Boyd</b> , ADS Environmental Services	
1:00-1:30	Low DO Biological Nutrient Removal: Full-scale Examples, Lessons Learned for Operation and Design, and the Fate of Nitrogen <b>Natalie Beach</b> , Carollo Engineers	CCTV Data Management Life in the Time of COVID <b>Rebecca Specht</b> , Milwaukee Metropolitan Sewerage District	
1:30-2:00	Kishwaukee Biological Improvements – The Importance of Process Flexibility and Operational Optimization <b>Brent Perz</b> , Baxter & Woodman, Inc.	Meeting BNR Limits While Handling Extreme Peak Flows with a Continuous Influent/Intermittent Decant Sequencing Batch Reactor <b>Benjamin Barker</b> , YSI Inc, a Xylem brand	
2:00-2:30	Aerobic Granulation – Secondary Clarification Impacts and Considerations <b>Eric Redmond</b> , Black & Veatch	Evaluation of Alternatives for Town's Peak Wet Weather Flow Treatment and Permitting Process <b>John Dyson</b> , Aqua-Aerobic Systems, Inc.	
2:30-3:00	Failure IS an Option: Assessing Final Clarifier Performance by Quantifying Uncertainty Associated with State Point Analyses (SPA) through Monte Carlo <b>Brian Shoener</b> , Black & Veatch	Pilot Study: Advanced, High-rate Treatment System for Sewer Overflow Elimination During Wet Weather Events <b>Paige Peters</b> , Marquette University	

WEDNESDAY, MAY 19, 2021

TECHNICAL WORKSHOP: RESOURCE RECOVERY & ENERGY (R2E)		
9:00-11:15	<b>Corey Bjornberg</b> , Rochester, MN; <b>Mike Holland</b> , Kishwaukee WRD; <b>Matt Streicher</b> , Glenbard Wastewater Authority; <b>Cody Schoepke</b> , Fond du Lac, WI; and <b>Tanja Rauch-Williams</b> , Carollo Engineers	
	SESSION E	SESSION F
	SUSTAINABILITY	BIOSOLIDS & PFAS
Moderator	Emma Larson	Colin Fitzgerald
12:00-12:30	Repurposing Infrastructure for Phosphorus Removal: Developing Design Guidelines for S2EBPR <b>Leon Downing</b> , Black & Veatch	Using Dried Biosolids as a Sustainable Fuel Source – A Long-term Review of Energy Recovery System with the Potential to Address Emerging Contaminants <b>Sudhakar Viswanathan</b> , Veolia Water Technologies
12:30-1:00	Perspectives for Utility of the Future <b>Wendell Khunjar</b> , Hazen and Sawyer	Biosolids Drying to Eliminate Liquid Land Application <b>Eric Lynne</b> , Donohue & Associates
1:00-1:30	Impact of Sludge Minimization Technologies on Mass, Energy and Nutrient Balance of the Wastewater Treatment Plant <b>Brett Bevers</b> , Centrisys/CNP	Economic Impacts of PFAS on Biosolids Programs <b>Maddie Ledoux</b> , CDM Smith
1:30-2:00	Class A Via B3: Otsego Implements Sustainable Biosolids Upgrades with Minnesota's New "Buildings Benchmarks and Beyond" Requirements <b>Scott Schaefer</b> , AE2S	PFOA and Microplastics in Biosolids – Summary of Occurrence, Regulatory Status, and Current Understanding of Toxicology <b>Tanja Rauch-Williams</b> , Carollo Engineers
2:00-2:30	Milwaukee MSD South Shore WRF Digester Gas Treatment System Demonstrates Improvements in Engine Generator Reliability <b>Jay Kemp</b> , Black & Veatch	Small Batch Treatment of PFAS-Impacted Industrial Wastewater <b>Katie Wolohan</b> , Barr Engineering Co.
2:30-3:00	Efficiency, Reliability, and a Whole Lot More: Combining Aeration Systems for Big Savings <b>Garrett Sheehan</b> , Carollo Engineers	PFAS Incineration at Wastewater Reclamation Facilities <b>Lloyd Winchell</b> , Brown and Caldwell

THURSDAY, MAY 20, 2021

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	SESSION G	SESSION H
	NUTRIENTS	PLANNING & DATA
Moderator	Matt Seib	Mandy Sheposh
12:00-12:30	PONDUS Thermal Hydrolysis for VFA Production to Enhancing EBPR and Pre Digestion P <b>Gerhard Forstner</b> , Centrisys/CNP	Complex Facilities Planning for Racine, Wisconsin <b>Rusty Schroedel</b> , AECOM
12:30-1:00	Evaluating a Revolving Algal Biofilm (RAB) to Treat Anaerobic Digester Centrate at the Sioux City WWTP to Reduce Overall Plant Loading <b>Jens Dancer</b> , Gross-Wen Technologies	Case Study: Pingree Grove, IL – Advanced Primary Treatment for Increased Biological Capacity in Existing Town's Wastewater Treatment Facility <b>John Dyson</b> , Aqua-Aerobic Systems, Inc.
1:00-1:30	Rapid Start-Up of an ANITA Mox Deammonification System Downstream of Phosphorus Recovery and Anaerobic Digesters <b>Larry Li</b> , Veolia Water Technologies	It's Easier to Go with the Flow When You Know Where the Flow is Going: How Machine Learning-Based Predictions Lead to More Confident Decisions <b>Katya Bilyk</b> , Hazen and Sawyer
1:30-2:00	Construction, Commissioning and Start Up of the World's First Advanced Biological Nutrient Recovery (ABNRTM) Facility at the Village of Roberts, WI <b>Jordan Lind</b> , CLEARAS Water Recovery	Mercury Removal in Municipal Wastewater: The Role of TSS and DOC in Great Lakes Discharge Limits <b>Geordee Spilkia</b> , University of Minnesota – Duluth
2:00-2:30	Beyond Ultra-low Effluent Phosphorus Concentration: The Benefits of Using Lanthanide Elements in Wastewater Treatment <b>Logan Wherry</b> , Neo Water Treatment	Taking your Disinfection in a New Direction: UV Disinfection from Concept to Construction <b>Matt Sokolowski</b> , Carollo Engineers
2:30-3:00	Two-Stage HPO Process Optimization for Improved Tertiary Filtration Performance <b>Anthony Giovannone</b> , Black & Veatch	Global Water Stewardship: La Fortuna, Costa Rica – Sanitation Solutions <b>Elizabeth Heise</b> , Trotter and Associates