Jacobs WEFTEC 24 Workshops (Sunday, 10/6)

Track		Time	Location
Session Time	Session		Name
	Sunday, 10/6		
W03: Thickening Optimization: Improve Performance and Benefit Multiple Plant Processes 8:30-5:00 pm		245	
3:30 -3:50 pm	Vice Chair & Speaker Case Study: Co-Thickening or Recuperative Thickening: Which Process is the Better Approach to Increase Digester Capacity for Sunnyvale, CA		David Oerke
	W09: Activated Sludge and Biological Nutrient Removal Process Control: Hands-On in the Real World 8:00-5:00 pm		Offsite
	Facilitator		David Perry
	Speaker		Stephanie Cope
	Speaker		Maddy Fairley-Wax
W10: Water Environment Federation/The Water Research Foundation: Doing More, with Less—Implementing Machine Learning Process Controls at Water Resource Recovery Facilities 8:30-5:00 pm		345	
8:45-10:00 am	Vice Chair & Speaker PART 1: Overview of WRF Research Projects and Machine Learning		Bruce Johnson
W13 Understanding and Applying Disinfection Fundamentals 8:00-5:00 pm		Offsite	
	Facilitator	<u>'</u>	Pratyusha Reddy Reddy
10:15 am-12:15 pm	Hands On Laboratory Activity or Disinfection Technology Review		Matt Noesen
W16 Learning to Communicate: Connecting with Audiences and Telling your Story 1:30-5:00 pm		1:30-5:00 pm	352
	Assistant Moderator		Jayesh Charthal
W17 Assessing Sewer Septicity: Applying Tools to Save Money and Trouble 8:30-5:00 pm		346	
	Chair & Facilitator	'	Bart Kraakman
3:30-4:00 pm	Case Study: How Utilities Are Using Sewer Process Modelling to Solve Network-Treatment Plant Interactions		Adrian Romero
W18 Navigating the Water Sector's Path to Net Zero 8:30-5:00 pm		243	
11:00 am-12:00 pm	Scope 2: Reducing Energy Demand & Generating Renewable Energy		Emma Shen

Jacobs WEFTEC 2024 Program Participants (Monday, 10/7)

Track		Time	Location
Session Time	Session		Name
	Monday, 10/7		
Building a Hydrogen	Future	1:30-3:00 pm	244
1:30-1:50 pm	So You Want to Make H2 at Your WRRF? Synergies, Pitfalls and Opportunities		Ted Couch
Leveraging Automation and Analytics for Better Situational Awareness and Optimization: Part I 1:30-3:00 pm		350	
1:30-1:50 pm	WRF 5121 Final Report Overview: Long-Term Eva Digital Twins at Three Full-Scale WRRFs	aluation of Hybrid	Bruce Johnson & Cheng Yang
Leveraging Digital Te	chnologies to Make Better Decisions	1:30-3:00 pm	235
2:00-2:30 pm	Advancing Al-Based Sewer Inspection at West Boise Sewer District 2:00-2:30 pm		Alyce Tolman & Daniel Buonadonna
Navigating Nutrient D	ynamics: Modeling for Water Quality Excellence	1:30-3:00 pm	256
2:00-2:30 pm	Puget Sound Point Source Regional Cost and Rate Study Summary		Amanda McInnis
Optimization of MBR	Technology	1:30-3:00 pm	343
2:30-3:00 pm	A Flexible Design Concept for a 180 MGD MBR Fa	acility	Colin Fitzgerald
Improving Disinfection Processes through Machine Learning 1:30-3:00 pm		1:30-3:00 pm	346
2:30-3:00 pm	From Prediction to Protection: Machine Learning Disinfection Efficiency	for Wastewater	Joshua Registe
Effective Strategies for Managing Organics in IPR/DPR Systems 1:30-3:00 pm		340	
	Moderator		Ryujiro Tsuchihashi
Reducing Wet Weather Flows Using Public and Private I/I Removal Solutions 3:30-5:00 pm		3:30-5:00 pm	346
3:30-4:00 pm	Leveraging Grant Funds to Reduce Private System I/I		Michelle Collins
Advances in Anaerobic Digestion 3:30-5:00 pm		3:30-5:00 pm	344
	Assistant Facilitator		Joyce Chang
3:30-3:50 pm	Application of the Microbial Hydrolysis Process o Anaerobic Digestion System	n an Existing	Maddy Fairley– Wax & David Perry
Consumer Education Fights Back at Collection Systems Under Attack 3:30-5:00 pm		3:30-5:00 pm	356
	Assistant Facilitator		Marci Davis
Microplastics in WRRFs: Research, Risk, and Regulation Updates 3:30-5:00 pm		3:30-5:00 pm	238
	Moderator	1	Jenny Reina
Shaping the Future of Potable Reuse 3:30-		3:30-5:00 pm	340
	Assistant Facilitator		Ryujiro Tsuchihashi

Jacobs WEFTEC 2024 Program Participants (Tuesday, 10/8)

Track		Time	Location
Session Time	Session		Name
Tuesday, 10/8			
Resilient Communities Tackling Climate Challenges 8:30-9		8:30-9:30 am	335
8:30-9:00 am	Show Me The Value! Virginia Beach's Flood Model Visualization Tool		Leisha Pica
Planning Techniques t	o Support I/I Mitigation, Master Plans and Design	8:30-10:00 am	356
8:30-9:00 am	:30-9:00 am 2D or Not 2D: That is the Question		Eric Kohnen
Learning Exchange: V	What's Trending in Comms	8:30-10:00 am	242
	Lead Facilitator		Marci Davis
Intercepting Odors ar	nd Corrosion: Modeling, Mitigation,	8:30-10:00 am	244
8:30-8:50 am	Studying Odor And Corrosion For 168 Kilometers of Large-Diameter Interceptor		Steve Graziano
Energy Conservation	: From a Want to a Must	8:30-10:00 am	346
8:30-8:50 am	Green Energy, Less Power, Fewer Chemicals, Cleaner Water, Class A Biosolids: A Transformational Program at Chattanooga's MBEC With a Financial Payback		Paul Steele
Fundamentals of Biofilm Reactor Design and Operation 8:30-10:00 am		238	
8:35-8:50 am	35-8:50 am Applications and Advantages of Biofilm Reactors		Jenny Reina
Planning Techniques t	o Support I/I Mitigation, Master Plans and Design	8:30-10:00 am	356
9:00-9:15 am	Significant I/I and SSO Volume Reduction Achieved by Unique GIM Dynamic Models and Optimized Capacity Improvement Projects Under Consent Decree		Yan Hartkemeyer
Fundamentals of Bio	film Reactor Design and Operation	8:30-10:00 am	238
9:10-9:25 am	Design and Project Considerations of Biofilm Reactors		William Leaf
Innovation in Distributed Infrastructure 12:00-12:25 pm		Booth 1053, Hall B	
12:00-12:25 pm	Green versus Gray: Advancing a Holistic Approach When Considering Decentralized and Distributed Water Solutions		Rick Warner
Circular Water Economy: A Conversation with WEF, NACWA, and WateReuse Leadership		1:00-4:15 pm	La Nourvelle Orleans, Ballroom B
3:00-3:40 pm Moderator		Rick Warner	
Technology Spotlight: Transformation of PFAS in Biosolids 1:00-2:30 pm		1:00-2:30 pm	Booth 841, Hall B
	Assistant Facilitator		Maddy Fairley-Wax

Jacobs WEFTEC 2024 Program Participants (Tuesday, 10/8)

Track		Time	Location
Session Time	Session		Name
	Tuesday, 10/8		
Greenhouse Gas Strategies in Action: Measure to Mitigate 1:30-3:00 pm		344	
1:30-1:50 pm	Be Ambitious: Durham Region's Water and Waste GHG Roadmap	ewater Net-zero	Emma Shen
Developments in Hydrothermal Liquefaction for WRRFs 1:30-3:0		1:30-3:00 pm	256
2:30-2:50 pm	Hydrothermal Liquefaction: Technical Risks and	Mitigation	Lucy Cotter
Mechanistic Modeli	ng Developments for Newer Processes	1:30-3:00 pm	244
	Assistant Facilitator		Jayesh Charthal
Microbial Ecology S	election Under Low DO Concentration	1:30-3:00 pm	253
	Assistant Facilitator		Arifur Rahman
Developments in Hy	Developments in Hydrothermal Liquefaction for WRRFs 1:3		256
	Lead Facilitator		Adrian Romero
Modeling for Inland	Modeling for Inland Flood Resilience 3:30-5:00 pm		350
3:30-4:00 pm Peterborough Integrated Flood Model: A Comprehensive Approach to Managing Flood Risk		Eric Kohnen & Ricardo Santaella	
Optimizing Membrane Efficiency for Water Reuse and Disinfection 3:30-5:00 pm		3:30-5:00 pm	349
4:00-4:20 pm	Effect of Divalent and Metal Cations on the Organic Compounds Responsible for the Fouling of Ultrafiltration Membrane Treating Algae Laden Water		Edwin Castilla-Rodriguez
Benefits and Approaches to Moving Dewatering into the Modeling Realm 3:30-5:00 pm		338	
4:25-4:45 pm	Modeling Approach III: SUMO Extended Model		David Oerke
Application of Machine Learning and Modeling in Carbon Diversion 3:30-5:00 pm		243	
	Moderator		Arifur Rahman
N₂O Unmasked: Understanding and Taming Emissions 3:30-5:00		3:30-5:00 pm	253
Assistant Moderator		Adrian Romero	

Jacobs WEFTEC 2024 Program Participants (Wednesday, 10/9)

Track		Time	Location
Session Time	Session		Name
	Wednesday, 10/	9	
Resilient Development: Insights from Urban and Coastal Areas 8:30-10:00 am		243	
8:30-9:00 am	An Adaptive Tale: Optimizing Resilient Development		Jennifer Baldwin, Elise Ibendahl & Richard Crowder
Leveraging Machin	e Learning for Facility Operations	8:30-10:00 am	253
9:30-9:50 am	Utilizing Intelligent O&M to Harness Machine Learning Across the Water and Wastewater Industry		Joshua Registe
Optimizing IPR/DP	Optimizing IPR/DPR Projects: Harnessing the Power of Ozone 8:30-10:0		235
	Assistant Moderator		Belle Sexton
Stakeholder Engagement Strategies to Promote Green Infrastructure and Environmental Justice		356	
10:30-11:00 am	Vision to Reality: Building Community Through a Wet Weather Treatment Facility		Tina Hastings
Anoxic Reactor Des	ign for Low Energy BNR	10:30-12:00 pm	335
10:30-11:00 am	A Utilities Path to Implementing Disruptive Emerging Technologies: From Demonstration to the Full-Scale Implementation of MABR Technology		Julian Sandino
Synergizing Digital Solutions and Ozonation for Treatment of Micropollutants		10:30-12:00 pm	243
	Assistant Facilitator		Jayesh Charthal
Coastal Water Management: Strategies to Eliminate Ocean Discharge 1:30-3:00 pm		1:30-3:00 pm	235
	Assistant Moderator	'	Ryujiro Tsuchihashi
1:30-2:00 pm	Strategic Water Reclamation: CCUA Journey to 100% Reclaimed Water Utilization		Marcel Dulay
2:00-2:30 pm	Ocala Wetland Recharge Park: A Nature-Based Solution for Beneficial Reuse		Allison Lewis
Innovations in Phosphorus Management: From Models to Solutions 1:30-3:00 pm		340	
2:30-3:00 pm	Ann Arbor Tackles Stringent Effluent Phosphorus Limits with a Cost-Effective Side-Stream Phosphorus Removal Solution		Derek Lycke