

Jacobs WEFTEC 2025 Workshops (Saturday, Sept. 27)

Track		Time	Location
Session Time	Session		Name
Saturday, 9/27			
W02: Exploring Disinfection Validation in Water Reuse Scenarios		8:30–5:00 pm	S502a, Level 5
	Workshop Facilitator		Jenny Reina
W03: Integrated Flood Planning: Managing the Storms of the Future		8:30–5:00 pm	S501a, Level 5
	Workshop Facilitator		Laurens van der Tak
W04: Strategies for Measuring and Mitigating Fugitive Methane Emissions		8:30–5:00 pm	S503a, Level 5
	Workshop Facilitator		Adrian Romero
W05: Thickening Optimization: Improve Process Improvements and Plant Benefits		8:30–5:00 pm	S404c, Level 4
	Workshop Facilitator		David Oerke
	Moderator		Ed Fritz
1:50—2:10 pm	Industrial Thickening Case Studies		Ed Fritz
3:50—4:10 pm	Lessons Learned on the Design, Startup, and Optimization of Rotary Drum Thickeners		David Oerke

Jacobs WEFTEC 2025 Workshops (Sunday, Sept. 28)

Track		Time	Location
Session Time	Session		Name
Sunday, 9/28			
W12: Demystifying Nitrous Oxide (N2O) Measurement and Quantification		8:30-5:00 pm	Offsite - South Bldg., Gate 3, Shuttle Bus
	Workshop Facilitator		Amanda Lake
W13: Game-Based Modeling of Water Resource Recovery Facilities		8:30-5:00 pm	S501c, Level 5
	Workshop Vice Chair		Heather Stewart
W18: Transform Your Leadership: A Growth Plan for Everyone		8:30-5:00 pm	To Come
	Workshop Facilitator		Ashley Landis
Growing Into a More Resilient Leader		8:30-5:00 pm	To Come
1:00—2:30 pm	To Come		Lisa Laws

Jacobs WEFTEC 2025 Program Participants (Monday, Sept. 29)

Track		Time	Location
Session Time	Session		Name
Monday, 9/29			
Real Results with Real Time Control		1:30-3:00 pm	S503a, Level 5
	Assistant Facilitator		<i>William McMillian</i>
1:30-1:45 pm	Deployment of a Virtual Operating System for London CSO Management		<i>Stephanie McGregor</i>
Applications and Optimization of MBR Technology		1:30-3:00 pm	S405a, Level 4
1:30-1:45 pm	0.6 MGD Validation of a Unique Tertiary MBR Process to Provide NdN for Pure Water		<i>Colin Fitzgerald</i>
Biosolids Planning from WRF to the WRRF		1:30-3:00 pm	S505a, Level 5
2:00-2:15 pm	Got Options? Louisville's Biosolids Adaptive Planning Case Study		<i>Adrian Romero</i>
Applications and Optimization of MBR Technology		1:30-3:00 pm	S405a, Level 4
	Discussion Lead Facilitator		<i>Tim Constantine</i>
Tackling the PFAS Puzzle: Addressing Wastewater Effluent Concerns for Reuse		1:30-3:00 pm	N426b, Level 4
	Assistant Facilitator		<i>Ryujiro Tsuchihashi</i>
Transforming Stormwater Management with Next-Generation Digital Technologies		1:30-3:00 pm	S502a, Level 5
	Assistant Facilitator		<i>Suvarna Verma</i>
Decarbonizing Water: International Efforts to Measure and Reduce Process N2O Emissions		3:30—5:00 pm	S505a, Level 5
3:40—3:50 pm	Lessons Learned from Nitrous Oxide Monitoring at 15 WRRFs		<i>Amanda Lake</i>
Innovative Approaches to Design and Optimization		3:30—5:00 pm	S405a, Level 4
4:00-4:10 pm	Reducing Capital Cost in Process Design with Digital Twins: Two Full-Scale Case Studies		<i>Bruce Johnson</i> <i>Cheng Yang</i>
Full-Scale Shortcut Nitrogen Removal		3:30—5:00 pm	S404c, Level 4
4:00-4:15 pm	Short Cut Nitrogen Removal, Design for and Initial Results from Full Scale Implementation at Melbourne Water Western Treatment Plant		<i>Aprilia Vellacott</i>
Data in Action! Data-Driven Optimization Models		3:30—5:00 pm	S403a, Level 4
4:30-4:45 pm	Development and Deployment of Data-driven Optimization Models in Full Scale Wastewater Treatment Plants		<i>Ernesto MartinezPaz</i> <i>Joshua Registe</i>
How Do Upstream Processes Impact Disinfection Systems?		3:30—5:00 pm	S403b, Level 4
	Moderator		<i>Oliver Schraa</i>
Understanding Clarifier Settleability from Fundamental to Intensification Process		3:30—5:00 pm	S401c, Level 4
	Moderator		<i>Arifur Rahman</i>

Jacobs WEFTEC 2025 Program Participants (Tuesday, Sept. 30)

Track		Time	Location
Session Time	Session		Name
Tuesday, 9/30			
Innovative Strategies for Urban Flood Mitigation in Combined and Separated Systems		8:30—10:00 am	S501a, Level 5
8:30—9:00 am	Leveraging the Cloud to Power Resiliency: Alexandria's Flood Defense		<i>Daniel Baldwin</i> <i>Jade Pereira</i> <i>Megan Richardson</i>
9:00—9:30 am	Lessons Learned from Separating Stormwater from Combined Sewers in Lancaster		<i>Susan Beck</i> <i>Felipe Pulido</i>
Overcoming Challenges to Implement Advanced Aeration		8:30—10:00 am	S404c, Level 4
9:00—9:15 am	Improving Aeration Controls While Being Limited by Blower Flexibility		<i>Leiv Rieger</i>
Innovative THP Startup and Biosolids Finishing		8:30—10:00 am	S505a, Level 5
9:00—9:15 am	Transforming THP biosolids cake using a new biodrying process		<i>Todd Williams</i>
Pass the Gas: Digester Rehab, Intensification, and Innovation		8:30—10:00 am	S504c, Level 5
	Assistant Moderator		<i>Claire Funk</i>
9:30—10:00 am	Full-Scale Enhancement of Anaerobic Digestion with the Microbial Hydrolysis Process		<i>Stephanie Cope</i> <i>Madeleine Fairley-Wax</i> <i>Juliet Ohemeng-Ntiamoah</i>
Microplastics In Wastewater Treatment: Insights from Recent Research		8:30—10:00 am	S402a, Level 4
	Discussion Lead Facilitator		<i>Jenny Reina</i>
Don't Feed the Algae! Watershed Management for Nutrient Control		8:30—10:00 am	S402b, Level 4
	Moderator		<i>Vishal Vaidyanathan</i>
Wastewater Fundamentals: Influent to Effluent Tech Spotlight		9:30—11:00 am	To Come
	Moderator		<i>Parnian Izadi</i>
Flood Modeling: Saving Cities, One Storm at a Time		1:30—3:00 pm	S501a, Level 5
2:00—2:30 pm	Present and Future Damage: Quantifying Urban Flood Impacts in Philadelphia		<i>Emma Rakestraw</i>
Know What's Coming In: Source-Tracking of PFAS		1:30—3:00 pm	S404a, Level 4
	Assistant Facilitator		<i>Jayesh Charthal</i>

Jacobs WEFTEC 2025 Program Participants (Tuesday, Sept. 30)

Track		Time	Location
Session Time	Session		Name
Tuesday, 9/30			
Leveraging DE&I Strategies, Emerging Best Practices, Guides, and Tools for Our Water Industry		1:30—3:00pm	S504a, Level 4
	Moderator		Amber Lefers
Innovative Carbon-Based Advanced Treatment Solutions Transforming Water Reuse		1:30—3:00pm	S502a, Level 5
	Discussion Lead Facilitator		Ryujiro Tsuchihashi
Achieving United Nations Sustainable Development Goal 17: Collaborations and Partnerships that Advance a Water Resilient Future		3:30—4:00 pm	Circular Water Economy Theatre, South Expo Hall 2665
	Speaker		Rick Warner
Navigating the Storm: Disinfecting Wet Weather Events		3:30—5:00 pm	S505a, Level 5
3:50—4:00 pm	Sizing wet weather disinfection systems: how to get it right		John Siczka
Resiliency and Effectiveness of Wet Weather Flow Management and Treatment		3:30—5:00 pm	S402b, Level 4
4:00—4:30 pm	Remote Wet Weather Treatment Facility Operational Insights and Treatment Success		Ryan Dunne
Decarbonizing Water: Mathematical Modeling and Digital Twins to Reduce N2O Emissions from WWTP		3:30—5:00 pm	S404c, Level 4
4:00—4:15 pm	Hybrid Modeling and Diagnosis to Reduce N2O Emissions at WRRFs		Emma Shen
Big Solutions for Big Storms		3:30—5:00 pm	S502a, Level 5
4:30—4:45 pm	Beyond Pumps: Blending Blue, Green, and Grey Infrastructure in NOLA		Dustin Atchison Monica Stochl
Resiliency and Effectiveness of Wet Weather Flow Management and Treatment		3:30—5:00 pm	S402b, Level 4
	Assistant Moderator		Arifur Rahman
Challenges and Innovation in Sludge Processing		3:30—5:00 pm	S402s, Level 4
	Moderator		Joyce Chang
RNG-Codigestion, Carbon Capture, and Fugitive Methane		3:30—5:00 pm	S503a, Level 5
	Discussion Lead Facilitator		Adrian Romero
	Assistant Facilitator		Claire Funk
Water Reuse: Today's Landscape and Tomorrow's Path		3:30—5:00 pm	S405a, Level 4
	Assistant Facilitator		Belle Sexton

Jacobs WEFTEC 2025 Program Participants (Wednesday, Oct. 1)

Track		Time	Location
Session Time	Session		Name
Wednesday, 10/1			
Building Resilience and Planning for Climate Change		8:30—10:00 am	S402b, Level 4
8:30—9:00 am	Integrating Flood and Heat Risks in AlexRenew’s Climate Resilience Plan		<i>Charlotte Cherry</i> <i>Jennifer Hatchett</i>
Infrastructure Investments and Strategies of Corporate Responsibility		8:30—10:00 am	S503a, Level 5
8:30—8:45 am	Developing an Environmental, Social, and Governance Framework for Water Utilities		<i>Joseph Danyluk</i> <i>Kylee Hamilton</i>
Densified Activated Sludge: Practical Design and Modeling Experiences Converge		8:30—10:00 am	N426b, Level 4
	Moderator		<i>Parnian Izadi</i>
PdNA: Insights into Pilot and Full-scale Implementations		8:30—10:00 am	S405a, Level 4
	Moderator		<i>Jayesh Charthal</i>
Tackling PFAS: From Discharges to Watershed Mitigation Strategies		8:30—10:00 am	S401c, Level 4
	Assistant Moderator		<i>Vishal Vaidyanathan</i>
Pharmaceuticals, AMR, and Wastewater Treatment: Risks and Solutions		10:30—12:00 pm	S403a, Level 4
	Assistant Moderator		<i>Jayesh Charthal</i>
Innovative Green Infrastructure Solutions in Diverse Urban Settings		10:30—12:00 pm	S501a, Level 5
10:30—11:00 am	The Long’s Park Treatment Wetlands and Park Enhancement Project		<i>Susan Beck</i>
Beyond BNR: Pushing the Envelope of Intensification Technologies		10:30—12:00 pm	S401a, Level 4
10:30—11:00 am	The MOB Comes to Reno: Putting Mobile Organic Biofilm Technology to the Test		<i>Paul Steele</i>
Lessons from Biosolids Project Startups		10:30—12:00 pm	S404a, Level 4
11:30—11:45 am	Commissioning a Biosolids Gasifier System at a Water Resource Recovery Facility		<i>Dave Parry</i> <i>Chris Holcomb</i>
One Water in the Spotlight! Getting Creative with Community Engagement		10:30—12:00 pm	S504c, Level 5
	Moderator		<i>Marci Davis</i>
Full-Scale MABR Successes in Performance Optimization and N ₂ O Control		1:30—3:00 pm	S501c, Level 5
1:30—2:00 pm	North America's First Full-scale OxyMem-based MABR: Lessons and Performance Results		<i>Jesus Flores</i>
Making the Case for Energy Neutrality		1:30—3:00 pm	S505a, Level 5
2:00—2:15 pm	Low-Emission Hybrid Cogeneration for Optimal Energy Resilience		<i>Ted Couch</i>

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Wednesday, 10/1			
Talking One Water and PFAS: Proactive Utility Communications		1:30—3:00 pm	N426b, Level 4
	Assistant Facilitator		<i>Marci Davis</i>
Decarbonizing Water: GHG Measurement vs Estimates		1:30—3:00 pm	S404c, Level 4
	Assistant Facilitator		<i>Amanda Lake</i>
Mapping and Modeling Mayhem: A Downpour of Flood Mitigation Solutions		1:30—3:00 pm	S401c, Level 4
	Discussion Lead Facilitator		<i>Vishal Vaidyanathan</i>
Community Cybersecurity Approach: Secure by Design, Default, Demand, and Direction		1:30—3:00 pm	S402a, Level 4
2:00—2:15 pm	Integrator and vendor perspectives describe successes and shortcomings associated with secure development lifecycle, testing, and		<i>Dane Crane</i>