

Jacobs Workshops at WEFTEC 2019—Saturday, 9/21

Workshop Session		Workshop Time	Room Location (McCormick Place)
Presentation Time	Presentation Title		Jacobs Presenter Name
Saturday, 9/21			
	<i>W03—Game Based Modeling</i>	8:30 am—5:00 pm	S404a
	Workshop Chair		<i>Heather Stewart</i>
8:40 am—9:00 am	Why Do We Use Process Models?		<i>Heather Stewart</i>
	<i>W07—Greenhouse Gas Accounting for Wastewater Utilities</i>	8:30 am—5:00 pm	S502a
4:00 pm—4:15 pm	Bringing It All Together		<i>Adrian Romero</i>
	<i>W13—Upping Your Utility's Game in Achieving Continuous Improvement</i>	8:30 am—5:00 pm	S401d
9:00 am—9:30 am	Principles of Leading Change		<i>Scott Haskins</i>

Jacobs Workshops at WEFTEC 2019—Sunday, 9/22

Workshop Session		Workshop Time	Room Location (McCormick Place)
Presentation Time	Presentation Title		Jacobs Presenter Name
Sunday, 9/22			
	<i>W16—Design and Modeling of Advanced Biofilm Reactor Technologies for Nutrient Removal and Recovery</i>	8:30 am—5:00 pm	S404a
4:00 pm—4:15 pm	Modeling Aerobic Granular Sludge and Mobile Biofilm Systems		<i>Bruce Johnson</i>
	<i>W17—Solids Stabilization Fundamentals: Seeking the Skinny on Sludge</i>	8:30 am—5:00 pm	S405a
3:30 pm—4:00 pm	Composting		<i>Todd Williams</i>
	<i>W23—Pathogens and Constituents of Emerging Concern in Wastewater Effluent and Water Reuse - A Deeper Look into Recent Developments</i>	8:30 am—5:00 pm	S404c
	Workshop Chair		<i>Jenny Reina</i>
11:15 am—11:40 am	Interactive Presentation: Strategies for Minimizing Disinfection Byproduct Formation		<i>Matthew Noesen</i>
1:30 pm—1:55 pm	Interactive Presentation: Removal of Pathogens and CECs with RO-based Advanced Treatment Technologies		<i>Jim Lozier</i>
	<i>W27—Resilient Groundwater: Managing Aquifers for One Water</i>	8:30 am—5:00 pm	S504c
8:45 am—9:15 am	Groundwater Flows		<i>Daniel Holloway</i>

Jacobs Technical Sessions at WEFTEC 2019—Monday, 9/23

Technical Session		Session Time	Room Location <i>(McCormick Place)</i>
Presentation Time	Presentation Title	Jacobs Presenter Name	
Monday, 9/23			
104—Peak Flow Management: Where Do We Stand?		10:30 am—12:00 pm	S501a
	Moderator	<i>Susan Moisio</i>	
	Assistant Moderator	<i>William McMillin</i>	
11:05 am—11:30 am	How is Peak Flow Being Managed Around the Nation?	<i>John Siczka</i>	
205—Strategies to Prevent Bulking in Activated Sludge Systems		1:30 pm—5:00 pm	S505b
2:30 pm—3:00 pm	Can a Good Vacuum Clean Up Your Settleability?	<i>Kim Fries</i>	
4:00 pm—4:30 pm	Simple Operational Changes for Better Performance - Full-Scale Demonstration of Bioaugmentation and On-Off Aeration to Improve Sludge Settling at Highland Creek Treatment Plant	<i>Emma Shen</i>	
206—True Grit: Stories of Testing, Design, and Implementation in the Wild West		1:30 pm—3:00 pm	S501a
	Moderator	<i>Tim Constantine</i>	
2:30 pm—3:00 pm	Primary Sludge Screening and Grit Removal at a Large Primary Treatment Plant	<i>Bryce McGowan & Rahul Moosohur</i>	
207—Planning, Evaluation, Design, and Sustainability: Odor Control Has It All!		1:30 pm—5:00 pm	S402b
4:30 pm—5:00 pm	Innovative Thinking plus Powerful Tools Guide Odor Control Study Solutions	<i>Scott Cowden</i>	
213—Inflow and infiltration Assessment: Finding and Removing Sources of Leakage		1:30 pm—5:00 pm	S403b
2:30 pm—3:00 pm	Programmatic Approach to Cost-Effective I&I Reduction	<i>Jennifer Baldwin</i>	
229—Case in Point: Current CSO Case Studies		3:30 pm—5:00 pm	S502b
4:00 pm—4:30 pm	Challenges and Opportunities with Integrating Large-scale Green Infrastructure for CSO Reduction	<i>Joseph Danyluk</i>	

Jacobs Technical Sessions at WEFTEC 2019—*Tuesday, 9/24*

Technical Session		Session Time	Room Location <small>(McCormick Place)</small>
Presentation Time	Presentation Title	Jacobs Presenter Name	
Tuesday, 9/24			
309—Get Down: Process Control Strategies To Meet Low Effluent TN Limits		8:30 am—12:00 pm	N426c
10:30 am—11:00 am	On a Roll with Controls: Maximizing TN Removal and Reliability for SWIFT Reuse	Heather Stewart	
11:30 am—12:00 pm	The Low Methanol Diet: A Utility's Recipe for Process Optimization through Advanced Controls and Operational Excellence	Paula Sanjines	
310—Digestion		8:30 am—12:00 pm	S403a
9:30 am—10:00 am	Insights from Operating a Three-Stage Thermophilic Anaerobic Digestion Facility	David Parry	
11:00 am—11:30 am	More than Hot Air: Full-Scale Efficiency Comparison of Jet Aeration and Coarse Bubble Aeration in Aerobic Digestion	Paul Steele	
311—Setting the Stage for Dewatering Success		8:30 am—12:00 pm	S501d
10:30 am—11:00 am	State-of-the-Practice in Biosolids/Polymer Blending for Biosolids Dewatering	David Oerke	
313—Basics Collections Systems 101		8:30 am—12:00 pm	S403b
8:30 am—9:00 am	Manifold Low Pressure Grinder Pump Sewer System Modeling	Suibing Liu	
10:30 am—11:00 am	Is Your Collection System Stressed... In a Good Way?	Leisha Pica	
314—Flow Analysis Methods to Solve Collection System Flow Problems: Rainfall, RDII, Climate Change, and Hydraulics		8:30 am—12:00 am	S404a
8:30 am—9:00 am	Improving Alternatives Analysis for CSO Control using a Proxy Rainfall Analysis	Anjulie Cheema	
11:00 am—11:30 am	Critical Pipeline – Assessment, Alternative Review, and Use of Dynamic Hydraulic Modeling in Development of the Best Long Term Solution	Mike Stickley	
328—Stakeholder Inclusive Planning for Sustainable Water Solutions		10:30 am—12:00 pm	S503a
11:00 am—11:30 am	Surpassing Regulatory Requirements to Future Proof a Regional Wastewater Treatment Facility	Marek Ratajczak	

Jacobs Technical Sessions at WEFTEC 2019—*Tuesday, 9/24* (cont.)

Technical Session		Session Time	Room Location <small>(McCormick Place)</small>
Presentation Time	Presentation Title	Jacobs Presenter Name	
Tuesday, 9/24			
	401—Knowledge Development Forum: Interaction of the Carbon, Nitrogen, and Phosphorus Cycles for Intensified Treatment and Resource Recovery	1:30 pm—5:00 pm	S401
	Moderator	Heather Stewart	
	406—The Old Dog and Its New Tricks: Approaches to Carbon Redirection and Primary Treatment Improvements	1:30 pm—5:00 pm	S501a
	Moderator	Tim Constantine	
1:30 pm—2:00 pm	The Old vs. The New: How Much Better Can We Do With the Newer Carbon Re-Direction Approaches?	Bruce Johnson	
	413—Wet Weather Management and Flow Equalization: Addressing Wet Weather Flow Issues Around the World	1:30 pm—5:00 pm	S404a
4:00 pm—4:30 pm	Meeting the Challenges of Operating a Remote SSO High Rate Treatment Facility	Shirish Agarwal	
	414—Sewer Rehabilitation and Construction	1:30 pm—5:00 pm	S405a
2:30 pm—3:00 pm	Lessons Learned During Rehabilitation of the North Mimico STS and South Mimico STS, Toronto, ON	Marya Jetten	
	422—Solutions for Coastal City Resiliency	1:30 pm—5:00 pm	S503a
1:30 pm—2:00 pm	CSO Control Planning below Sea Level Requires an Integrated Approach	William McMillin	
2:30 pm—3:00 pm	What is the Future of our Sanitary Sewers with the impacts of Climate Change and How do we develop Resilient Sewer Systems?	Susan Moisio	
	428—DATA: Key to Optimizing Planning and Decision Making	3:30 pm—5:00 pm	S503b
4:30 pm—5:00 pm	The Future is Live: Bringing Forecast Modelling to the London Tideway Tunnels System	Amanda Hon	

Jacobs Technical Sessions at WEFTEC 2019—Wednesday, 9/25

Technical Session		Session Time	Room Location <i>(McCormick Place)</i>
Presentation Time	Presentation Title	Jacobs Presenter Name	
Wednesday, 9/25			
	505—We Don't Need No Stinking Bubbles! Advancements in MABR Technologies	8:30 am—12:00 pm	S403b
11:00 am—11:30 am	Going Bubbleless: Design and Start-Up of the Full-Scale MABR Demonstration at the Ejby Mølle WRRF		Tim Constantine
	511—Biogas Quality and Finance	8:30 am—10:00 am	S501d
9:30 am—10:00 am	Full-scale Digester Micro-aeration Pilot Study to Improve Biogas Quality for Energy Recovery		Bart Kraakman
	513—Advanced Hydraulics: How To Solve the Really Tough Problems in Your Collection System	8:30 am—12:00 pm	S405a
8:30 am—9:00 am	Going with the Flow: Streamlined Design Modelling Integration and International Collaboration for Copenhagen Stormwater Conveyance Tunnel Design		Joss Plant
	519—Not Pipe Dreams: Reality of Long Linear Projects	8:30 am—10:00 am	S504a
9:00 am—9:30 am	Lessons Learned through Rehabilitation of the Chapman, Humber and Highland Sanitary Trunk Sewers within the City of Toronto		Laurel Murphy & Jayne Harris
	523—Mainstream Nitrite-Shunt Processes	1:30 pm—3:00 pm	S403a
11:30 am—11:45 am	Shortcut Nitrogen Demonstration Trial Plant Performance		Aprilia Vellacott
	609—Data Driven Solutions for Biosolids Processing	1:30 pm—3:00 pm	S501d
	Moderator		Todd Williams
2:00 pm—2:30 pm	Biosolids Compost Feasibility Study: Halton Region's Long-Term Biosolids Management Strategy Development to Improve Diversity and Sustainability		Emma Shen
	613—Becoming an Asset (Management) to the Organization: Tools and Applications for Stormwater	1:30 pm—3:00 pm	S502b
2:30 pm—3:00 pm	Stormwater Master Planning for Large Scale Urban Watersheds		David Anderson
	615—Communicate, Communicate, Communicate: Why Public Outreach and Communications Matter!	1:30 pm—3:00 pm	S504a
2:00 pm—2:30 pm	Fake News, Data Breaches, and Community Connections: Why Reputation Management Matters More than Ever		Marci Davis