

CH2M Program Participants at WEFTEC17

Track		Time	Location
Session Time	Session		Name
Workshop Saturday, 9/30			
	W02—Design and Modeling of Advanced Biofilm Reactor Technologies for Nu-	8:30 am—5 pm	S404a
10:30 am—11:00 am	Workshop Vice Chair		Leon Downing/CH2M
	W02—Design and Modeling of Advanced Biofilm Reactor Technologies for Nu- trient Removal and Recovery	8:30 am—5 pm	S404a
2:30 pm—2:45 pm	Modeling Mobile Biofilm Systems		Bruce Johnson/CH2M
Workshop Sunday, 10/1			
	W15—Advanced Refinery Wastewater Treatment	8:30 am—5 pm	S501c
10:30 am—11:00 am	Biological Treatment Part 2: Aeration - Concepts, Design, and Operation		Samir Dave/CH2M
Technical Session Monday, 10/2			
	201 - Let's Get Granular: Theory and Innovation of Granular Sludge	1:30 pm—5 pm	S402a
3:30 pm—4 pm	Selective Pressures for Granulation in Full-scale, Flow through Activated Sludge System		Leon Downing/CH2M Eric Redmond/CH2M
	202 - Optimizing the Nutrient-Resource-Energy Nexus in a Carbon and Energy Constrained World	1:30 pm—5 pm	N426b
	Moderator		Sam Jeyanayagam/CH2M
	206 - Membrane Aerated Biofilm Reactors: Knowledge Development Forum	1:30 pm—5 pm	S501d
2:30 pm—3:00 pm	Applying a Disruptive Technology: Practical Considerations for the MABR at the Ejby Molle facility in Odense, Denmark		Leon Downing/CH2M
	208 - Fundamentals of Anaerobic Digestion I	1:30 pm—5 pm	S404d
2:30 pm—3:00 pm	Digester Mixing		Dave Parry/CH2M
	209 - Odors and Air Emissions at Water Resource Recovery Facilities	1:30 pm—5 pm	S505b
1:30 pm—2 pm	Oxygen Solves Odor Problems at El Paso's Northwest WWTP		Scott Cowden/CH2M
	211- Residuals Management	1:30 pm—3:30 pm	S501a
	Moderator		Todd Williams/CH2M

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Technical Session Monday, 10/2			
213 - Collection System Tunnels: From A to Z		1:30 pm—5 pm	N426a
2:30 pm—3 pm	Design standard for in-shaft vertical deaeration and energy dissipation for deep storage-conveyance tunnels	Joss Plant/CH2M	
215 - Stream On: Restoration as a Water Quality Practice		1:30 pm—3:30 pm	S503a
	Moderator	Heather Harris/CH2M	
220 - Potable Reuse is NOW!		1:30 pm—5 pm	S404a
4 pm—5 pm	Sustainable Water Initiative For Tomorrow: A Look at HRSD's Innovative Approach to Water Reuse	Tyler Nading/CH2M	
222 - Preparing for Climate Change: Tools for Resilience and Mitigation		1:30 pm—5 pm	S504a
4 pm—4:30 pm	Incorporating Climate Resilience and Mitigation Planning into Asset Management for WSSC's Water and Wastewater Infrastructure	Laurens Van der Tak/CH2M	
223 - Biosolids Master Planning		3:30 pm—5 pm	S501a
	Moderator	Todd Williams/CH2M	
Technical Session Tuesday, 10/3			
303 - Water and Wastewater Challenges in the Steam Electric Power Industry		8:30 am—12 pm	S405a
11:30 am—12 pm	Treatment of Selenium in Industrial Wastewaters by Passive Biological Treatment: Progress and Prospects	Jim Bays/CH2M	
305 - Seeing Red! Startup and Operational Strategies for Anammox-Based Side-stream Treatment Facilities		8:30 am—12 pm	N426b
	Moderator	Tim Constantine/CH2M	
11 am—11:30 am	Post Aerobic Digestion: Operational Experience from Three Full-Scale Facilities	Leon Downing/CH2M	
307 - Enhancements to Biological Phosphorus Removal To Overcome New Challenges		8:30 am—12 pm	S501d
11:30 am—12 pm	System-wide Optimization of an Enhanced Biological Phosphorus Removal and Nutrient Recovery System	William Leaf/CH2M	
309 - Land-Based Biosolids Management Solutions		8:30 am—12 pm	N426c
9 am—9:30 am	Development of Kodiak, Alaska's Successful Composting Program	Todd Williams/CH2M	
313 - Collection System Basics You Really Need to Know!		8:30 am—12 pm	S504d
8:30 am—9 am	Sanitary Sewer Overflows – A Systematic Approach to Understanding Why They Occur and How to Use All the Data Collected to Understand Your System	Susan Moisiso/CH2M	

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Technical Session Tuesday, 10/3			
314 - In Case It Is Not a Hoax: Climate Resilience and Flooding		8:30 am—12 pm	S503a
10:30 am—11 am	Urban Flood Prediction and Warning – Challenges and Solutions		Heather Harris/CH2M
320 - One Water: Realizing Integrated Water Management		8:30 am—12 pm	S504a
11 am—11:30 am	Developing an integrated urban watershed wet weather model: taking a systems approach to plan capital investment decisions		Elliot Gill/CH2M
403—Meeting the Challenges of Implementing a \$6 Billion Wastewater Infrastructure Program		1:30 pm—5 pm	S405a
	Assistant Moderator		Susan Moisio/CH2M
2:30 pm—3 pm	Climate Risk and Resiliency Planning for Wastewater Infrastructure: Miami-Dade’s Facility Hardening Planning Process and Design Guidelines		Laurens Van de Tak/CH2M
3:30 pm—4 pm	Conveyance System Modeling Tools		Susan Moisio/CH2M
4:30 pm—5 pm	A Case Study in the Holistic Evaluation of Wet Weather Flow Management Options for Large Scale Facilities		Randall Boe/CH2M
404—Balancing Flocculent and Granular Growth for BNR Processes: Knowledge Development Forum		1:30 pm—5 pm	S406b
1:30 pm—2 pm	Determining the effect of external settling selectors on performance and settling behavior of existing activated sludge systems		Adrienne Willoughby/CH2M
2 pm—2:30 pm	WE&RF U1R14 Objective 1: Determining the Effect of External Settling Selectors on Performance and Settling Behavior of Existing Activated Sludge Systems		Tim Constantine/CH2M
4 pm—4:30 pm	Rapid Fire Panel: Experiences With Granulation		Leon Downing/CH2M
406—Carbon is the Key		1:30 m—3 pm	S404d
1:30 pm - 2 pm	Optimization Through Design: Implementing Full Scale Carbon Addition to 700 MGD of Wastewater Treatment in NYC		Mark Supplee/CHM
2 pm—2:30 pm	The Old Dog Learns a New Trick: Wet Weather Trickling Filters Utilized to Manage C:N Ratio of Bioreactor Feed for Improved Energy Footprint at an Advanced BNR Facility		Tim Constantine/CH2M
407—Insane in the Membrane: Innovations in Lowering MBR Operational Costs		1:30 m—3 pm	N426b
2:30 pm—3 pm	Wet-weather Proofing MBRs for Nutrient Removal Applications		Julian Sandino/CH2M
408- Wet Weather Treatment Strategies and Real Time Control		1:30 pm—5 pm	S501d
	Assistant Moderator		Terry Krause/CH2M
1:30 pm—2 pm	Two Case Studies of Simulating Wet Weather Events to Optimize Operational Control		Matt Deavenport/CH2M Tyler Nading/CH2M
3:30 pm—4 pm	Early Wins from a Wet Weather SCADA System: Better Performance at Remote, Real Time Control Facilities		Reese Johnson/CH2M

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Technical Session Tuesday, 10/3			
413 - Collection System Models: The Foundation of Planning, Design, Construction, and Post-Construction Evaluation		1:30 pm—5 pm	N426c
	Moderator		Susan Moisio/CH2M
1:30 pm—2 pm	SSO 770 IWAP Collection System Hydraulic Model Calibration: Objectives, Methodology, and Results		Victoria Berry/CH2M
1:30 pm—2 pm	If – Then – Else: A balance between protecting the assets through limiting inflow and maximising CSO capture		Amanda Hon/CH2M
2:30 pm 3 pm	Predicting how collection systems will operate in the 2050s in response to changing rainfall patterns		Elliot Gill/CH2M
418—Workforce Development Complements Asset Management		1:30 pm—5 pm	S404c
3:30 pm—4 pm	Municipal technical training programs: effective utility management & building resiliency		Umar Alfaruq/CH2M Melodie McKnight/CH2M
420- Winning Utility Management! EUM Strategies		1:30 pm—5 pm	S403b
1:30 pm 2 pm	Implementation of Sustainable Procurement Practices and Use of Envision		Elizabeth Bradford/CH2M
427- Oh the Places You'll Go: Stormwater Case Studies		3:30 pm—5 pm	S503a
3:30 pm—4 pm	Out of the Sewer into the Park: The Development of Regional Green Stormwater Infrastructure Systems in Philadelphia		Andrew Potts/CH2M
Technical Session Wednesday, 10/4			
500 - What's in Your Sludge? Application of Modern DNA Tools		8:30 am—12 pm	S402b
	Moderator		Leon Downing/CH2M
501—Comammox: New Kid on the Block, or Not?		8:30 am—10 am	S501c
9 am—9:30 am	Long-Term Operation at Low Dissolved Oxygen Conditions Results in Comammox Dominated Nitrifying Community Structure		Leon Downing/CH2M Colin Fitzgerald/CH2M
9:30 am—10 am	Modelling the Selective Retention of PAOs and Nitrospira (Comammox?) in a Full-Scale Implementation of WAS Hydrocyclones at the Ejby Mølle WWTP		Adrienne Willoughby/CH2M
510 - Dewatering Characteristics and Equipment Selection		8:30 am—10 am	N426a
9:30 am—10 am	State-of-the-Practice for Dewatering of Thermally Hydrolyzed Digested Biosolids		David Oerke/CH2M
516- Efficient and Effective Utility Management: The New Normal		8:30 am—12 pm	S403b
11 am—11:30 am	Determining the Best Path for Upgrading Wastewater Facilities – Two Case Studies		Joyce Chang/CH2M

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Technical Session Wednesday, 10/4			
519—Advanced Water Treatment Design Essentials for Water Reuse		8:30 am—10 am	S404a
9 am—9:30 am	Design Considerations for Direct Potable Reuse Projects	Larry Schimmoller/CH2M	
523—Public Private Partnership: Hmm!		10:30 am—12:30 pm	S504b
11:30 am—12 pm	Tideway: The way to plan, permit, design, procure and construct a deep CSO control tunnel under London, UK.	David Crawford/CH2M	
604- Full-Scale Performance of Biofilm-Based Processes		1:30 pm—5 pm	S402b
1:30 pm—2 pm	Operation of An Integrated Fixed-film Activated Sludge Process to Provide Nutrient Removal and Plant-wide Energy Savings	Ana Arango	
607—It Smells Good in the Neighborhood: Collection System Odor and Corrosion Control		1:30 pm—5 pm	S501d
2:30 pm—3 pm	Advancements in Collection System Odor and Corrosion Modeling	Matthew Ward/CH2M	
4 pm—4:30 pm	London's CSO control improvement programme: air management challenges	Sofia Georgaki/CH2M	
610—Emerging Topics and Technologies in the Collection System		1:30 pm—5 pm	N426a
2 pm 2:30 pm	Innovative Applications and Cost Effectiveness of Manhole Monitors	Alok Shah/CH2M Obie Watts/CH2M	
620- Plant Optimization: How To Make a Good Thing Better		3:30 pm—5 pm	N426b
4 pm—4:30 pm	Innovative DBO Two-Stage Activated Sludge Upgrade at the Woonsocket WWTF to Achieve 3 mg/L TN and 0.1 mg/L TP	Bruce Johnson/CH2M	