

Technical Program

Sunday Afternoon, April 23

Sunday - PM	Track A - Speciality Workshop: Disaster Management / Moderator: Stanley States, Ph.D
1 1:00 pm Stanley States	Texas A&M Engineering-TEEX Strategic Overview for Disaster Management for Water/WW

Monday Morning, April 24

Monday - AM	2 A	Track A - Potable Water Treatment / Moderator: Jill Hudkins, P.E.,
1 8:00 am Yue Hu	University of Florida	Pilot study of combined ion exchange in a suspended mode operation process
2 8:30 am Chance Lauderdale	HDR Inc.	Breaking a Paradigm: Chlorine and other Oxidants can Benefit Biofiltration
3 9:00 am Sandeep Sethi	Carollo Engineers	Design and Procurement Approach for the 54 MGD Manatee County WTP UF Retrofit
4 9:30 am Michael Low	Boynton Beach Utilities	Progressive Color Control: Boynton Beach's High-Rate Fluidized IX System
5 10:00 am Larry Elliott	Carollo Engineers, Inc.	A Multi-Faceted Approach to WTP Master Planning Unveils Needs & Opportunities
Monday - AM	2 B	Track B - Utility Management I / Moderator: Kart Vaith, P.E.
1 8:00 am Scott Kelly	City of West Palm Beach	Right Project at the Right Time: City of WPB Approach to Capital Planning
2 8:30 am Matthew Paymer	Holtz Consulting Engineers, Inc.	Developing Electronic Tools for a Dynamic Sustainable Asset Management System
3 9:00 am Laura Baumberger	Carollo Engineers, Inc.	Achieving Rate Planning Resiliency through Dynamic Utility Management Dashboard
4 9:30 am Donna Kaluzniak	H2O Writing	How Operators and Engineers Can Work Better Together
5 10:00 am William Marcous Jim Peters	City of Sanford	Human CIP Capital Improvement Program - Sanford's Vertical Training Plan
Monday - AM	2 C	Track C - Wastewater Treatment I / Moderator: Marie-Laure Pellegrin, Ph.D., P.E.
1 8:00 am Alonso Griborio	Hazen and Sawyer	Comprehensive Modeling Approach Builds the Foundation for a \$6 Billion Program
2 8:30 am Randall Boe	CH2M	Addressing Miami-Dade Water and Sewer Department Peak Flow Treatment Challenges
3 9:00 am Brian Karmasin	CDM Smith	Making Cents of It All: Aeration Technologies and Impact on Lifecycle Cost
4 9:30 am Sandeep Sathyamoorthy	Black & Veatch	Membrane Aerated Biofilm Reactors - A Practical, Low Cost, and Sustainable Alter
5 10:00 am Michael Condran	GHD Services, Inc.	Emerging Water Management Challenges to Address New EPA Regulations
Monday - AM	2 D	Track D - Collection Systems I / Moderator: Eberhard Roeder, Ph.D., P.E.
1 8:00 am Nalin Sahni	CH2M HILL	Updating Miami Dade's Ocean Outfall Legislation Program and Setting up for Success
2 8:30 am Jeremy Jardell	Jacobs Engineering Group Inc.	MDWASD Tunnels Downtown Miami-Design Build Gravity Sewer Microtunnel
3 9:00 am Michael Nostro	USP Technologies	New Technology for Biofilm Removal and Sulfide Control in Sewer Lines
4 9:30 am Christine Ellenberger	Jacobs Engineering Group Inc.	Going to great lengths—Two large HDDs provide redundant force main for JEA Truck
5 10:00 am Ray Thomson	Jacobs Engineering Group Inc.	Shots and Over the Hole: Rehabbing a 48-Inch Force Main in West Palm Beach
Monday - AM	2 E	Track E - Mixed Session I / Moderator: Jaya Tharamapalan, Ph.D., P.E.
1 8:00 am Don Dickinson	Phoenix Contact USA	Cybersecurity - Going Beyond Protection
2 8:30 am Chandra Mysore	Jacobs	Validating Decentralized Treatment through Pilot-Scale Study
3 9:00 am Jarrett Kinslow	Tetra Tech, Inc.	Full Scale Implementation of the Calcite Contactors for Remineralization
4 9:30 am Ed Rectenwald	MWH /Stantec	The Depth of Treated Wastewater Disposal for Miami-Dade County, Florida
5 10:00 am SandeepSathyamoorthy	Black & Veatch	Increase SRT, Improve Microconstituent Removal. No. There's More to It
Monday - AM	2 F	Track F - Workshop 1: LIFT - Tools and Resource / Moderator: Jeff Moeller, P.E.
1 8:00 am Jeff Moeller	Water Environment & Reuse Foundation	LIFT: Tools and Resources for Moving Innovation into Practice
Monday - AM	1 D	Track G - Workshop 2: Resiliency / Moderator: Hillary Weber
1 8:00 am Hillary Weber Randy Brown	Hillsborough County	Resiliency, What Is it and What Are We Getting Ready for Anyway?
Monday - AM	1 E	Track H - Workshop 3: Potable Reuse Part I / Moderator: Barton T. Weiss
1 8:00 am Bart Weiss Gary Revor	Hillsborough County Public Utilities	Future of Water Recycling Part I: Direct Potable Reuse

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Monday - PM	2 A	Track A - Nutrient Removal / Moderator: Rod Reardon, P.E., BCEE
1 1:30 pm Lucas Botero	Black & Veatch	Sidestream Enhanced Phosphorus Removal -The New Frontier in Biological P Removal
2 2:00 pm CJ Strain, P.E. Philip Wiebe	Nexom	Ultra-Low Phosphorus with Reactive Filtration: How Citronelle, AL meets 20 µg/L
3 2:30 pm Andrew Randall	UCF	Effect of Glycerol and Prefermentation on Nutrient Removal
4 3:00 pm Jeffrey Herr	Brown and Caldwell	Innovative TMDL Phosphorus Reduction Approach in Boise, Idaho
5 3:30 pm Timothy Ware	Arcadis	Process Chemistry on New Techniques.
6 4:00 pm Craig Fuller	AECOM Technical Services, Inc.	More Removal, Less Cost: Using ORP at Two Advanced Secondary Facilities
Monday - PM	2 B	Track B - Water Supply / Moderator: Kim Kunihiro
1 1:30 pm Robert Maliva	WSP Parsons Brinckerhoff	Destin Water Users Reclaimed Water ASR System: Update on a Groundbreaking System
2 2:00 pm Scott Knight	Wetland Solutions, Inc.	Water Balanced: A Fairer Allocation Method for Florida's Water
3 2:30 pm Erik Svenson	CH2M	Leveraging Existing Infrastructure for Sustainable Long-Term Water Supply
4 3:00 pm Hai Vu Gregory Taylor Mario Chavez	Reiss Engineering, Inc.	Dual Aquifer Water Production Well
5 3:30 pm Jeff LeBlanc	Thompson Pipe Group-Flowtite	Fiberglass Pipe Helping Solve the World's Drinking Water Shortage
6 4:00 pm Suzannah Folsom	Tampa Bay Water	Wellfield Right-Sizing
Monday - PM	2 C	Track C - Biosolids / Moderator: Brian Stahl, P.E.
1 1:30 pm Kurt Pfeiffer	Hazen and Sawyer	"Turning up the Heat" - Advanced Digestion to Meet Disposal Constraints
2 2:00 pm Hala Sfeir	Brown and Caldwell	Small Utilities Can Afford Sustainability with Dry Anaerobic Digestion
3 2:30 pm Nandita Ahuja	Hazen and Sawyer	Lessons Learned from Start-up of a FOG Co-digestion Process
4 3:00 pm Amber Batson	CDM Smith	Driving Operational Improvement through Dashboards at a SoFla Biosolids Facility
5 3:30 pm Tony Pevec	CDM Smith	Pasco County Uses Solar Energy to Help Convert Sludge to Organic Fertilizer
6 4:00 pm Terry Goss	AECOM	Piloting to Establish Performance Criteria at Miami's South District WWTP
Monday - PM	2 D	Track D - Distribution Systems / Moderator: Emilie A. Moore, P.E., PMP, ENV SP
1 1:30 pm William Lovins 2	AECOM	Lead and Copper Corrosion Control Experiences for Pinellas County Water System
2:00 pm Jason Pugsley	Mathews Consulting-Baxter/Woodman Co.	A Pragmatic Approach to Selecting and Deploying an AMI System
3 2:30 pm Laney Southerly	City of Port St. Lucie	City of Port St. Lucie AC Pipe Bursting Progress Towards a Programmatic Approach
4 3:00 pm Timothy English	Reiss Engineering, Inc.	Unique Pump Station Configuration Protects Older Pipes While Boosting Pressure
5 3:30 pm James Carolan	CDM Smith	Boca Raton's Proactive Pressure Pipe Renewal Program
6 4:00 pm Brian White	McKim & Creed, Inc.	How to Use Advanced Modeling and Animation to Evaluate Water Quality Improvement
Monday - PM	2 E	Track E - Sustainability/Climate Change/Conservation / Moderator: Lindsay Marten, P.E., LEED AP
1 1:30 pm Sussette Irizarry	MWH /Stantec	Climate Adaption and Resilience for MiamiDade County Wastewater Treatment Plants
2 2:00 pm Enrique Vadevilo	Hazen and Sawyer	Leveraging Envision to Enhance Resiliency with Miami Dade's Ocean Outfall Program
3 2:30 pm Stephen McGrew	Palm Beach County Water Utilities	Sustainability and the Water-Energy Nexus
4 3:00 pm Daniel Keck	Mott MacDonald	Mobile Area Water and Sewer System Facility Resiliency Study
5 3:30 pm Debra Preble	Dewberry Preble-Rish	Protecting Florida's Springs
6 4:00 pm Paul Mattausch	Collier County Government	Sustainable Integrated Water Resource Management Strategy for Collier County
Monday - PM	2 F	Track F - Collection Systems II / Moderator: Walt Schwarz, P.E., FASCE
1 1:30 pm Ricardo Vieira	Black & Veatch	Technical viability of Large Diameter Pressure Pipelines Cured-In-Place
2 2:00 pm Keith McHale	Environment One	O&M Considerations for Pressure Sewer Systems
3 2:30 pm Robert Domkowski	Xylem, Inc. - Flygt	Design and Operational Benefits of Horizontal Centrifugal Dry-pit Electric Subm
4 3:00 pm Lindsay Tucker	Orenco Systems, Inc.	Low-Impact Wastewater Collection System Reduces Nutrient Loads in Vero Beach
5 3:30 pm Weston Haggan	Reiss Engineering, Inc.	Consolidate and Capitalize on Existing System Hydraulics
6 4:00 pm Edward Ambler	AM Trenchless	Preliminary Field Trials for Encapsulation of Pipe Fragments after Pipe Bursting
Monday - PM	1 D	Track G - Workshop 4: Utility Rates / Moderator: Tony Hairston
1 1:30 pm Tony Hairston	FSAWWA Finance and Rates Committee	Utility Rates 101
Monday - PM	1 E	Track H - Workshop 5: Potable Reuse Part II / Moderator: Barton T. Weiss
1 1:30 pm Bart Weiss Lynn Spivey	Hillsborough County	Future of Water Recycling Part II: Florida's First Direct Potable Reuse Project

Technical Program

Tuesday Morning, April 25

Tuesday - AM		2 A	Track A - Wastewater Treatment II / Moderator: Curtis Kunihiro, P.E.
1	8:00 am	Rosalyn Matthews Hazen and Sawyer	Big Bubble Mixing Enhances BNR Performance in a Unique Modified 4-stage facility
2	8:30 am	Tammy Martin Black & Veatch	Clarifier Inspections – Identifying Hazards & Maintenance Activities
3	9:00 am	John Dyson Aqua Aerobic Systems, Inc.	New Solution for Domestic Primary Wastewater Treatment - Cloth Media Filtration
4	9:30 am	Megan Ross Pinellas County Utilities	The History of Wastewater Treatment & The Pioneers Who Advanced the Industry
5	10:00 am	David McEwen Brown and Caldwell	Optimizing Foul Air Removal: Wastewater Pilot Work and Florida Case Studies
Tuesday - AM		2 B	Track B - Reclamation and Reuse Systems I / Moderator: Lisa Prieto, P.E.
1	8:00 am	Andre Dieffenthaler Ivana Kajtezovic Hazen and Sawyer	Tampa Bay Water explores potable reuse as an alternate water supply
2	8:30 am	Kenneth Broome MWH /Stantec	Reuse in Florida
3	9:00 am	Brendan Brown CDM Smith	Can Reclaimed Water to Wetlands Serve as Alternative Wet Weather Discharge?
4	9:30 am	Chris Keller Wetland Solutions, Inc.	Kanapaha Hybrid Stormwater/Reclaimed Water Recharge Wetland
5	10:00 am	Amanda Schwerman Black & Veatch	Advancing Potential for DPR through Sensor Systems & Effective Decision Tools
Tuesday - AM		2 C	Track C - Resource Recovery / Moderator: Nandita Ahuja
1	8:00 am	Eli Tilen Brown and Caldwell	Maximizing Innovation and Minimizing Interruption Using IPD for a Cogen Facility
2	8:30 am	Brandon Yallaly Carollo Engineers	RO Concentrate Reduction: State-of-the-Technology in Real World Applications
3	9:00 am	Hiroko Yoshida Centrisys	From Orthophosphate reduction to total P recovery: a plant wide approach Operational
4	9:30 am	Andre Dieffenthaler Hazen and Sawyer	and Treatment Challenges at a Waste-to-Energy RO Facility
5	10:00 am	Peter Loomis Margaret Cook CDM Smith	Harnessing Energy from Biosolids
Tuesday - AM		2 D	Track D - Utility Management II / Moderator: Jennifer Myers, P.E.
1	8:00 am	Robert George Tetra Tech	The NIST Cybersecurity Framework CSF and Its Relevance to Water/Wastewater Cyb
2	8:30 am	Rick Nipper Toho Water Authority	Strategic Thinking in the Water World
3	9:00 am	John Giachino PC Construction	The Florida Public-Private Partnership Statute - A Project Delivery Method
4	9:30 am	John Fumero Nason Yeager Gerson White & Lioce PA	Legislative Overview and Projections for the 2017 Legislative Session
5	10:00 am	Hal Clarkson Woolpert, Inc.	Increasing Stormwater Revenues Without Increasing Rates
Tuesday - AM		2 E	Track E - Workshop 6: Design-Build Delivery / Moderator: Kathleen Gierok ,P.E.
1	8:00 am	Kathleen Gierok Wright-Pierce	Perspectives in Design-Build Delivery
Tuesday - AM		1 D	Track F - Workshop 7: Activated Sludge Part I / Moderator: Ron Trygar ,CET
1	8:00 am	Ronald Trygar TREEO Center	Microscopic Examination of Activated Sludge Part I
Tuesday - AM		2 F	Track G - Workshop 8: Nutrient Removal / Moderator: Julian Sandino Ph.D., B.C.E.E., IWA Fellow, WEF Fellow, P.E.
1	8:00 am	Julian Sandino Julian Sandino, CH2M	WERF Nutrient Removal Challenge – Summary of Six-Years of Key Research Findings and Its Relevance to Florida
Tuesday - AM		1 E	Track H - Workshop 9: Collection Systems / Moderator: Jamison Tondreault, E.I.
1	8:00 am	Jamison Tondreault Kimley-Horn	CLOGS and FROGS in Collection Systems—Challenges, Tools and Counter Measures

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Tuesday - PM		2 A	Track A - Reclamation and Reuse Systems II / Moderator: Alice Varkey, P.E.
1	2:30 pm	Samuel Ramirez Charles Sohm GAI Consultants, Inc.	Mid-Clay Reclaimed Water Land Application and Recovery System
2	3:00 pm	Sandeep Sathyamoorthy Black & Veatch	Preparing to Implement A Direct Potable Reuse Program? What You Need to Know Abo
3	3:30 pm	Kati Bell MWH /Stantec	The Need for Application of Predictive Analytics for Potable Reuse
4	4:00 pm	Bikram Sabherwal Black & Veatch	Decentralized Water Reuse
5	4:30 pm	David Ammerman Carollo Engineers, Inc.	The City of Tampa Augmentation Project
Tuesday - PM		2 B	Track B - Water Quality/Groundwater / Moderator: Pamela London-Exner
1	2:30 pm	Christopher Hill Arcadis	Flint's Path from Crisis to Distribution System Optimization
2	3:00 pm	Andrew McThenia Water Science Associates Inc.	Rising Tides and Sinking Brines: Managing the Threat of Salt Water Intrusion
3	3:30 pm	Liguang Li University of Florida	Molecular composition of dissolved organic nitrogen in agricultural stormwater
4	4:00 pm	Mike Nixon McKim & Creed, Inc.	The Switch to Biologically Active Filtration from PAC for Taste and Odor Control
5	4:30 pm	John Williamson SUEZ in North America - DENARD	Achieving Simultaneous TOC Removal and Clarification Under Alkaline Conditions
Tuesday - PM		2 C	Track C - Mixed Session II / Moderator: Nita Naik, P.E., ENV SP
1	2:30 pm	Brad Hayes City of Tavares	Stormwater Improvements to Enable a Resilient Community
2	3:00 pm	Mark Van Auken Arcadis	The Role of Green Infrastructure in Flood Risk Reduction
3	3:30 pm	Christina Arenas Keep Tampa Bay Beautiful	Hillsborough Trash Free Waters Initiative
4	4:00 pm	Sarah Stewart CDM Smith	Peracetic Acid – Fact or Fiction?
5	4:30 pm	Kyle Cogswell USF	Advanced Models of Wastewater Plants through Computational Fluid Dynamics
Tuesday - PM		2 D	Track D - Facility Operations and Maintenance / Moderator: Brian Karmasin ,PE
1	2:30 pm	Laura Baumberger Tim Madhanagopal Carollo Engineers, Inc.	WRF Condition Assessment and Integration into CMMS Enhances OCU's Maint. Program
2	3:00 pm	John Abrera MWH /Stantec	Analytic Platforms for streamlined data analysis in treatment facilities
3	3:30 pm	David Fitzgerald D P Fitzgerald, Inc.	Operation Enhancement of Wastewater Treatment using High Performance HMI
4	4:00 pm	Keff Kurella ARCADIS	What you should know about an arc flash study
5	4:30 pm	Neil Johnson MWH /Stantec	Innovative Well Rehabilitation Techniques to Save Aging Infrastructure
Tuesday - PM		2 E	Track E - Modeling/GIS/Automation/Computer Applications / Moderator: Prasad Chittaluru, Ph.D., P.E., PMP, GISP
1	2:30 pm	Michael Altland Mott MacDonald	Transient Analysis Challenges in Sanitary Sewer Pump Stations
2	3:00 pm	Elke Ursin Florida Department of Health	Mapping Drinking Water and Wastewater for all Built Properties in Florida
3	3:30 pm	G. Mike Stoup Eric Brown McKim & Creed, Inc.	Things to Consider When Preparing for a SCADA/Controls Upgrade?
4	4:00 pm	Alejandro Solanilla Reiss Engineering, Inc.	Identify and Move WTP Mixing Zone Boundaries to Optimize Water Quality
5	4:30 pm	Douglas Moulton CDM Smith	Putting a Finer Point on It: The Hampton Roads Approach to Hydraulic Modeling
Tuesday - PM		2 F	Track F - Workshop 10: Pathogens / Moderator: Michelle Viale-Bick and Bina Nayak , Ph.D.
1	2:30 pm	Michelle Viale-Bick Bina Nayak Tampa Bay Water	Emerging and Reemerging Pathogens
Tuesday - PM		1 D	Track G - Workshop 11: Activated Sludge Part II / Moderator: Ron Trygar, CET
1	2:30 pm	Ronald Trygar TREEO Center	Microscopic Examination of Activated Sludge Part II
Tuesday - PM		1 E	Track H - Workshop 12: Safety / Moderator: W. Scott Holowasko
1	2:30 pm	William Holowasko FWEA Safety Committee Gainesville Regional Utilities	Employee Safety – Protecting a Utility's Most Valuable Assets

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