

Technical Program - Monday

MONDAY MORNING				
Session	Time	Name	Company	Paper Title
TRACK A: UTILITY MANAGEMENT		Room 18		Moderator: Kartik Vaith, P.E.
1	8:00 AM	Tammy Martin	Black & Veatch	Turn Emergency Engine-Generator Assets into Revenue Sources
2	8:30 AM	Karen Lowe	CDM Smith	Wastewater Treatment Capacity Strategy to Meet Projected Growth
3	9:00 AM	Christopher Matos	Hazen and Sawyer	Maximizing Operational Efficiencies Utilizing Business Intelligence Tools
4	9:30 AM	Celine Hyer	Arcadis US Inc.	SAMP, AMP, Mission, Vision, Policy? Simplifying Asset Management Strategic Plan
5	10:00 AM	Jennifer Myers	Brown and Caldwell	Accentuating the Practical: Better Management Decisions through Maximo
TRACK B: WASTEWATER TREATMENT I		Room 19		Moderator: Marie-Laure Pellegrin, Ph.D., P.E.
1	8:00 AM	Daniel Delgado	University of South Florida	Effect of Recirculation on Passive Onsite Wastewater and+ Removal Systems
2	8:30 AM	Samuel Sturtevant	Hydro-Dyne Engineering	Optimize Your Headworks System Design Through On-Site Testing
3	9:00 AM	Sangeeta Dhulashia	Stantec	It's Screen Time: Largest Headworks Design Under Construction in Florida!
4	9:30 AM	Sussette Irizarry	Stantec	Wastewater Chlorination Systems: A Holistic Approach Towards Design and Construction
5	10:00 AM	Isaac Holowell	CDM Smith	Hydraulic Evaluation and Model Calibration of a Complex WWTP Effluent Disposal S
TRACK C: STORMWATER & GREEN INFRASTRUCTURE		Room 20		Moderator: Nandita Ahuja, P.E.
1	8:00 AM	Md Yeasir Rahman	University of South Florida	Biochar amended bioretention for E. coli and Nitrogen removal from urban runoff
2	8:30 AM	Bryan Veith	Brown and Caldwell	An Integrated water quality, groundwater recharge and flood protection at Lake Eva
3	9:00 AM	Holly Kremers	Wade Trim	Resilient Solutions to Maximize Infrastructure Investments
4	9:30 AM	Thomas Jensen	Kimley-Horn and Associates	A Perfect Storm - Neighborhood Rehabilitation Project
5	10:00 AM	Daniel Suarez	HDR	Building West Palm Beach's Stormwater Infrastructure Rehabilitation Program
TRACK D: POTABLE WATER TREATMENT I		Room 21		Moderator: Jaya Tharamapalan, Ph.D, P.E.
1	8:00 AM	Erica Stone	Carollo Engineers, Inc.	A Bird's Eye View of DBP Treatment Strategies
2	8:30 AM	Rebecca Lindsay	Gresham Smith	Where's the Beef? Biofiltration Monitoring and Optimization in Low-TOC Waters
3	9:00 AM	Rebecca Lindsay	Gresham Smith	Heavy Hitters: Where DBPs Were kKnocked Down in Two Ozone/BAF Pilot Trains
4	9:30 AM	Pamela Kerns	REISS Engineering, Inc.	Increase Safety and Reliability by Making the Ammonia Source Switch
5	10:00 AM	Tiffany Miller	Tetra Tech	How Much Calcium Can You Pack Into A High Alkalinity Water?
TRACK E: COLLECTION SYSTEMS I		Room 22		Moderator: Freddy Betancourt, P.E.
1	8:00 AM	Leisha Pica	Jacobs Engineering Group	Is Your Collection Stressed - In a Good Way?
2	8:30 AM	Joe Clark	JWC Environmental	Wipe Out The Wipes Crisis
3	9:00 AM	Ryan McKenna	Hazen and Sawyer	Collection System Odor and Corrosion Treatment Optimization
4	9:30 AM	Steven Hollowell	Wright-Pierce	Upgrading One of Orlando's Largest Lift Stations and Overcoming Challenges
5	10:00 AM	Timothy Noyes	Toho Water Authority	Building Operational Resilience: Proactive Force Main Management at Toho Water
TRACK F - WORKSHOP 1		Room 23		Moderator: Shea Dunfon
1	8:00 AM	Public Communications: Effective Strategies and Lessons Learned from/during Emergency Situations		
TRACK G - WORKSHOP 2		Room 24		Moderator: John Abrera, P.E.
1	8:00 AM	Exploring the Smart Utility: Basics, Approaches, and Use Cases		

Scheduled Monday Activities

Operations Challenge Competition
FSSSSS Breakfast
FWRC Awards Luncheon
Young Professionals Symposium

Women of Water Forum
Contractor's Council
Student Poster Contest
Exhibit Floor Grand Reception
Rocking Monday Party with "Nofilter"



Technical Program - Monday

MONDAY AFTERNOON				
Session	Time	Name	Company	Paper Title
RACK A: DISTRIBUTION SYSTEMS				
			Room 18	Moderator: Justin Fox, P.E.
6	1:30 PM	Nita Naik	Arcadis US Inc.	Optimizing for a Better Future – Case studies in AWWA PSW Program
7	2:00 PM	Brian Megic	Liquid Solutions Group	Caught in the Balance: CIP Planning to Integrate Traditional and AWS Sources
8	2:30 PM	Isaac Holowell	CDM Smith	Potable Water Resiliency and Optimization for a Florida Island Community
9	3:00 PM	Christopher Hill	Arcadis US Inc.	Flin's Ongoing Efforts to Achieve Distribution System Optimization
10	3:30 PM	Ethan Brooke	UGSI Solutions, Inc.	Active Mitigation of THM Levels in Drinking Water Distribution Systems
11	4:00 PM	Joan Fernandez	Arcadis US Inc.	"Bursting Away the Challenges", The Escape and Valencia Neighborhood Case Study
RACK B: WASTEWATER TREATMENT II				
			Room 19	Moderator: Curtis Kunihiro, P.E.
6	1:30 PM	Arturo Burbano	GHD	Addressing Aeration Demand Challenges of Resort Areas WW Treatment Plants
7	2:00 PM	Sahand Iman Shayan	University of South Florida	Shortcut Nitrogen Removal Modeling and Optimization for Sequenced Batch Reactor
8	2:30 PM	Lucas Botero	Black & Veatch	Evaluating Innovative Blower Technologies Including Low Speed Turbo Units
9	3:00 PM	Tilo Stahl	Binder Group	A New Generation of Aeration Control Valves
10	3:30 PM	Harold Schmidt, Jr.	Stantec	Carbon Diversion and its Role in Energy Optimization
11	4:00 PM	Alonso Griborio	Hazen and Sawyer	Achieving a Reduced Energy Bill: From Planning to Implementation
RACK C: SUSTAINABILITY				
			Room 20	Moderator: James Wallace, P.E.
6	1:30 PM	Molly Williams	Stantec	Planning for Resiliency in Coastal Communities
7	2:00 PM	Kevin Morris	Peace River Manasota Reg. Water	Hurricane Irma: Flow and Sediment Transfer Impacts on Peace River Water Supply
8	2:30 PM	Tom Bartol	JEA	JEA Purified Water Technology Evaluation Project: Results, Findings, Next Steps
9	3:00 PM	Lisa Krentz	Hazen and Sawyer	Analysis of Potential Irrigation Use in a Humid Climate
10	3:30 PM	Carla Cherchi	Stantec	Battery Energy Storage Systems for Utility Energy Resilience and Cost Savings
11	4:00 PM	Bob Munro	GHD Advisory	Developing an O&M Budget for Stormwater Resiliency
RACK D: POTABLE WATER TREATMENT II				
			Room 21	Moderator: Jennifer Nyfennegger, Ph.D., P.E.
6	1:30 PM	Scott Manahan	WSP USA Inc.	Regional Approach to Alternative Water Supply Planning and Funding is a Win-Win
7	2:00 PM	Ivana Kajtezovic	Tampa Bay Water	Evaluation and Implementation of Tampa Bay Waters' Future Water Supplies
8	2:30 PM	Tom Friedrich	Jones Edmunds & Associates, Inc.	Alternative Water Supply: Scalping Surface Water, Degasification & ASR Program
9	3:00 PM	Chris Reinbold	Carollo Engineers, Inc.	How the Sawgrass WTP Gained 5 benefits with One Project
10	3:30 PM	Lance Littrell	Kimley-Horn and Associates	Looking Ahead: Selecting Membranes with Water Quality Degradation in Mind
11	4:00 PM	Ryan Eck	Black & Veatch	Membrane vs. Media Filtration as RO Pretreatment for the City of Dunedin's WTP
TRACK E: COLLECTION SYSTEMS II				
			Room 22	Moderator: Nick Wagner
6	1:30 PM	John Schroeder	Hazen and Sawyer	Using Sewer Inspection Data & Innovation to Successfully Implement Sewer Improvements
7	2:00 PM	Michael Condran	Electro Scan Inc.	Disruptive Technology Supports Resiliency and Certifies I/I Compliance
8	2:30 PM	Laurie Perkins	Wright-Pierce	From Coast to Coast What Florida's Largest Utilities are doing about I/I
9	3:00 PM	Kerstin Kenty	Jacobs Engineering	HDD...No. Wait -Slipline!
10	3:30 PM	Richard Crow	Murphy Pipelines	Emergency Replacement of 3.6 miles 30 Force Main in Downtown Ft. Lauderdale
11	4:00 PM	Francisco Bohorquez	AECOM	Boca Ciega Bay 4,200 Linear Foot Force Main Replacement: Taming HDD Technology
TRACK F: WORKSHOP 3				
			Room 23	Moderator: Shea Dunifon
6	1:30 PM	Public Education and Outreach: Resources and Case Studies to Inspire our Future		
TRACK G: WORKSHOP 4				
			Room 24	Moderator: William Edgar
6	1:30 PM	Security in the Age of Cyber		



Technical Program - Tuesday

TUESDAY MORNING				
Session	Time	Name	Company	Paper Title
TRACK A: RECLAMATION & REUSE I				
			Room 18	Moderator: Alice Varkey, P.E.
12	8:00 AM	Deborah Daigle	Arcadis US Inc.	North Hillsborough Aquifer Recharge Project NHARP Expands
13	8:30 AM	Hari Seshan	Brown and Caldwell	From Channel to Tap: Stormwater as a Source to Augment Reuse
14	9:00 AM	Rafael Vazquez-Burney	Jacobs Engineering	Crews Lake Natural Systems Restoration: Innovations in Water Reuse
15	9:30 AM	Chris Keller	Wetland Solutions, Inc.	City of High Springs Groundwater Recharge Wetland Project
16	10:00 AM	Allison Lewis	Jacobs Engineering	Reuse, Reduce, Recharge, Restore, & Recreate - The Ocala Wetland Park
TRACK B: NUTRIENT REMOVAL I				
			Room 19	Moderator: Tim McVeigh
12	8:00 AM	Matt Tebow	Kimley-Horn and Associates	Utilizing Non-Methanol Carbon Sources in Deep-Bed Denitrification Filters
13	8:30 AM	Chandler Johnson	World Water Works, Inc	The DEMON® Anammox Process: Case Study at Pierce County Chambers Creek WWTP
14	9:00 AM	Brian Richichi	CLEARAS Water Recovery	CLEARAS Water Recovery - Advanced Biological Nutrient Recovery
15	9:30 AM	Amit Kaldate	Suez Water Technologies	Membrane Aerated Biofilm Reactor technology- Sustainable Nutrient Removal
16	10:00 AM	Beverley Stinson	AECOM	Innovative Process for Granulation of Conventional Continuous Flow Activated Sludge
TRACK C: MODELING / GIS / COMPUTER APPS				
			Room 20	Moderator: Prasad Chittaluru, Ph.D., P.E.
12	8:00 AM	Keanan Bell	NorthStar	A New Eye in the Sky: How Drone Technology is Advancing Environmental Data
13	8:30 AM	Rahul John	Water Science Associates	Quantifying Reductions in Nitrate Loading Following Septic Tank Removals
14	9:00 AM	Edward Wicklein	Carollo Engineers, Inc.	Getting More Out of Your Treatment System with Improved Flow Splitting
15	9:30 AM	Tom Tibbitts	St. Johns County Utilities	Better Business: Mobile Response for Solutions and Insights in Water Utilities
16	10:00 AM	Jennifer Nyfennegger	Carollo Engineers, Inc.	Performance Tracking Tool for Timely Analysis of Treatment Processes
TRACK D: WATER QUALITY				
			Room 21	Moderator: Greg Taylor, P.E.
12	8:00 AM	Matthew Starr	Stantec	Dredging 101: How to Effectively Remove Muck and Organics from Coastal Areas
13	8:30 AM	Sam Stone	Peace River Manasota Reg. Water	Peace River Salinity Incursions - Impact on Public Water Supply
14	9:00 AM	Stephen Riley	Jacobs Engineering	Unique Raw Water Supply Distribution System/JEA Total Water Management Plan
15	9:30 AM	Michelle Hays	Jones Edmunds & Associates, Inc.	Aquifer Recharge to Offset Saltwater Intrusion and Restore Ecological Systems
16	10:00 AM	Phillip Locke	McKim & Creed	Flagler County Implements Robust Pre-Treatment System to Address NF Fouling
TRACK E: BIOSOLIDS				
			Room 22	Moderator: Brian Stahl, P.E.
12	8:00 AM	Joseph Downey	Constantine Engineering	An Evaluation of Pumping Equipment for FOG and High Strength Waste
13	8:30 AM	Albert Bock	Aquaconeer	Effluent Phosphorous Control + Cost Savings Through Facultative Digestion
14	9:00 AM	John Willis	Brown and Caldwell	New GHG Methodology for Methane from Digested-Biosolids Storage/Dewatering
15	9:30 AM	Yong Kim	UGSI Solutions, Inc.	Impact of Enhanced Polymer Activation on Sludge Dewatering Process
16	10:00 AM	Rajendra Vaidya	CDM Smith	Producing Class AA Fertilizer: The Story of Pasco County's Solar Drying Facility
TRACK F: WORKSHOP 5				
			Room 23	Moderator: Amit Pramanik, Ph.D., BCEEM
12	8:00 AM	Water Research Foundation - Research Workshop		
TRACK G: WORKSHOP 6				
			Room 24	Moderator: Joan Fernandez, P.E.
12	8:00 AM	Techniques to Reduce Inflow and Infiltration of Collection Systems with O & M Tidbits		

Scheduled Tuesday Activities

FSAWWA Regional & Council Chairs Breakfast
"Best of the Best" Drinking Water Contest
Top Ops Competition
FWEA Annual Meeting & Awards Lunch
Prizes & Drawings Hourly

What's Happening Wednesday

FWEA Utility Council Annual Meeting & Breakfast

Register Online
FWRC.ORG



Technical Program - Tuesday

TUESDAY AFTERNOON				
Session	Time	Name	Company	Paper Title
TRACK A: RECLAMATION & REUSE II		Room 18		Moderator: Joseph Hirst, P.E.
17	2:30 PM	Christina Alito	HDR	Investment Prioritization of Reclaimed Water Infrastructure Through Triple Bottom Line
18	3:00 PM	Amanda Heise	Jacobs Engineering	Tapping into Available Capacity in Existing Infrastructure to Create Solutions
19	3:30 PM	Pranjali Kumar	Carollo Engineers, Inc.	The Three-Legged Stool of Potable Reuse: Technology, Regulations, and Public Access
20	4:00 PM	Jay Sheehan	Woodard & Curran	Coast to Coast: Creative Water Reuse Options in the USA
21	4:30 PM	Teri Pinson	St. Johns County Utility	Under Pressure: Developing a Residential Reuse System from Scratch
TRACK B: NUTRIENT REMOVAL II		Room 19		Moderator: Brian Karmasin, P.E.
17	2:30 PM	Nandita Ahuja	Hazen and Sawyer	Keeping Up With the Increasing Nutrient Loads: Arlington East WRF Case Study
18	3:00 PM	Jose Jimenez	Brown and Caldwell	Understanding Simultaneous Nutrient Removal through Low DO Operation
19	3:30 PM	Keith Riger	City of Deland	Reducing TN to 3 mg/L With No Anoxic Basin and No Chemicals at City of Deland
20	4:00 PM	Matthew Love	Wade Trim Inc.	Good Neighbors: Palm Bay Leads the Charge to Improve the Indian River Lagoon
21	4:30 PM	George Anipsitakis	Brown and Caldwell	Construction, Startup, and Operation of a New 4-Stage Bardenpho System in MD
TRACK C: FACILITY OPERATIONS & MAINTENANCE		Room 20		Moderator: Megan Nelson, P.E.
17	2:30 PM	Trooper Smith	Freese and Nichols, Inc.	Minimize Footprint and Maintenance Headaches, Self-Cleaning Trench Type Wet Wells
18	3:00 PM	Chad Lyner	Mott MacDonald	McMillan Street Pumping Station Rehabilitation
19	3:30 PM	Weston Haggan	REISS Engineering, Inc.	Utilizing Non-Destructive Testing for Large Ductile Iron FM and ARVs
20	4:00 PM	Daniel Lizarazo	Gannett Fleming	Overcoming Operation and Construction Challenges at Miami-Dade WASD South District
21	4:30 PM	Alysse Ness	CDM Smith	Purified Water Production – An R&D Plant Operator's Perspective
TRACK D: MICROCONSTITUTENTS & CONTAMINANTS		Room 21		Moderator: Samantha Hanzel, P.E.
17	2:30 PM	Richard Protasowicki	Wright-Pierce	Creative Solutions to Managing Emerging Contaminants in Groundwater
18	3:00 PM	Chance Lauderdale	HDR	Per- and Poly-Fluoroalkyl Substances PFAS Have Been Produced Since the Late 1940's
19	3:30 PM	Dora Chiang	CDM Smith	Communicating and Addressing Risks from PFAS and other CECs in Potable Reuse
20	4:00 PM	Samantha Black	HDR	Removal of Per- and Poly-Fluoroalkyl Substances from Surface Water Using Powdere
21	4:30 PM	Anjana Kadava	Black & Veatch	Understanding Metals Removal from Wastewater Using Physio-Chemical Processes
TRACK E: MIXED SESSION		Room 22		Moderator: Yanni Polematidis, P.E., BCEE
17	2:30 PM	Ed Rectenwald	Black & Veatch	Building Resiliency and Sustainability for Water Supply Management in Miami-Dade
18	3:00 PM	Larry Schimmoller	Jacobs Engineering	Framework for Controlling Organics in Potable Reuse Projects not using RO
19	3:30 PM	John McCary	Hillsborough County Public Util.	Can the Cost of Smart Meters be Offset by Insurance Benefits to Customers?
20	4:00 PM	Mike McGill	WaterPIO	Handling Crisis Communications in the Instant Information Age
21	4:30 PM	Neil Coffman	Stantec	Treatment of Landfill Leachate via Titanium Dioxide Photocatalysis Treatment
TRACK F: WORKSHOP 7		Room 23		Moderator: Paul Steinbrecher, P.E.
17	2:30 PM	UC Legislative & Regulatory Update		
TRACK F: WORKSHOP 8		Room 24		Moderator: Ifetayo Venner, P.E.
17	2:30 PM	Utility Innovation - Building a Digital Foundation with BIM		

