

Workshop Presentations

MONDAY

Water Sector Resiliency

Monday, April 16 - 8:00 A.M. • Room 103C

Presented by Florida Section American Water Works Association (FSAWWA)

Utilities, cities and communities need to be resilient, but often don't really understand what it means to be resilient. This workshop will define resiliency, show what tools are out there to help become resilient and provide examples of how others utilities have become resilient in their procedures.

BNR Wikipedia for Operators and Engineers

Monday, April 16 - 8:00 A.M. • Room 101C

Presented by Edris Taher, P.D. Eng., Micro C

This interactive workshop will partake in active learning through sharing their experience, critical thinking, Group discussion, and problem solving. wastewater characterization, nitrification, denitrification, chemical phosphorus removal and enhanced biological phosphorus removal subjects will be discussed. After a break, different process configurations and the design parameters will be reviewed with their application. The process control parameters in wastewater treatment facilities is the next topic that will be covered in this workshop and will be followed with real-world examples and design calculations. Basic basic familiarity with biological nutrient removal (BNR) helpful.

Integrated Water Reuse - Right Use, Right Place, Right Time /Legislative Update

Monday, April 16 - 1:30 P.M. • Room 103C

Presented by The FWEA (Florida Water Environment Association) Water Resources, Reuse, and Resiliency Committee (WR3), FWEA Utility Council (FWEAUC), and FSAWWA Utility Council (FSAWWAUC)

Panel discussion on: 1) The Diverse Hydrology of Florida and its Relationship to Integrated Water Reuse and Water Management; 2) Spot Light on Managing Integrated Reuse Projects Across the State – Right Use, Right Place, Right Time; and 3) Florida Water and Wastewater Policy Start-to-Finish: An Overview of the State's Legislative and Related Rulemaking Processes, an Update of Current Issues, and What's on the Horizon.

Infiltration and Inflow from Cradle to Grave

Monday, April 16 - 1:30 P.M. • Room 101C

Presented by The FWEA Collections Committee

This workshop will discuss the inflow and infiltration (I/I) issues that collection systems typically experience due to age deterioration. Topics will include as a holistic approach to reducing I/I in collection systems: Quantification approach, Detection approaches, methods and tools, I/I on private sources, and Success stories and lessons learned.

TUESDAY

Operational Considerations to Improve Water Quality in Buildings

Tuesday, April 17 - 8:00 A.M. • Room 103C

Presented by Florida Section American Water Works Association (FSAWWA)

Exposure to Legionella through premise plumbing has become a hot button issue in the water industry especially since, according to the CDC, 9 in 10 outbreaks could have been prevented with more effective water management. We have just begun to scratch the surface with increasing our understanding of the growth and persistence of opportunistic premise plumbing pathogens (OPPPs) yet engineering solutions for mitigation have not been identified. Regulatory compliance requires utilities to test for safety of the drinking water leaving the plant and within the distribution system, however the risk of microbial infection is higher in the portion of the distribution system beyond the property line. There is a need for utilities personnel to be actively involved in the development of building management plans, public education and continued discussions about remediation and control of OPPPs.

Lessons Learned from Hurricane Irma

Tuesday, April 17 - 8:00 A.M. • Room 101C

This workshop will bring together several Florida utilities and response agencies to discuss the impact, response and preparedness of Hurricane Irma. Florida utilities will discuss preparations taken as the storm approached including staffing, equipment preparation and FEMA coordination. The type of information gathered during the event and the initial assessment of the systems after the event including power outages, flooding and line breaks will be a topic. The agencies will also cover any long term impacts from the storm, lessons learned and future resiliency preparations being made for next year's hurricane season and beyond.

Strategic Thinking in the Water World

Tuesday, April 17 - 2:30 P.M. • Room 103C

This workshop will discuss the basic components of Strategic Planning for water and wastewater utilities followed by several plans that are a function of the strategic planning. The first presentation will go over the basics of Strategic Planning, stakeholders, and putting a plan together. This will be followed by Orange County Utilities discussing the development and implementation of their strategic plan and move toward a management system that will assess risk, prioritize tactical steps needed to achieve goals of the strategic plan, and establish well-defined roles and responsibilities, among other abilities. Toho Water Authority will provide a current update on their Strategic Plan and discuss two projects aligned with the strategy. We will close the session with a presentation using Organization for International Standards (ISO) 55000 and will discuss some lessons learned while developing recent Asset Management Plans.

Biosolids and Energy Recovery Considerations to Promote Sustainability

Tuesday, April 17 - 8:00 A.M. • Room 103C

The Workshop will present the latest in biosolids energy recovery, including sustainability and resiliency considerations including: Energy Recovery and Co-digestion Overview in Florida- Lessons learned and best operating practices for digestion and biogas production will be presented.