



Listing of Technical Sessions
2026 Annual Conference at the Westin Ft. Lauderdale Beach Resort
Subject to change without notice

Geotechnical Track – Thursday, July 23, 2026

Room: Atlantic 2

10:00AM - 10:25AM

Full Scale Testing of Geogrids for Roadway Applications

Geogrids have traditionally been used in both paved and unpaved roadway applications. It has been proven that index properties of a geogrid used for stabilization of a roadway are not a predictor of performance. This presentation will provide an overview of several test programs that have been recently completed.

Presented by: David Fuqua, PE, Tensar, a Division of CMC

10:30AM - 10:55AM

Engineered Water Repellency for Mitigating Swelling in Expansive Soils

Expansive clays threaten infrastructure due to moisture-driven volume change. This presentation examines laboratory evaluation of a water-soluble organosilane applied to highly plastic bentonite. Results show significant hydrophobicity enhancement and a 53% reduction in swell pressure, demonstrating the treatment's potential for expansive soil and subgrade stabilization.

Presented by: Michael Uduebor, Ph.D., PE, Aff M.ASCE, Florida Gulf Coast University

11:00AM - 11:50AM

A Design Framework for the Use of Low-Density Cellular Concrete (LDCC) in Levees

The use of LDCC in levee systems remains limited, primarily due to the absence of comprehensive design guidelines tailored to its unique properties. This presentation presents a structured framework for LDCC levee design. The framework encompasses both external and internal stability considerations, evaluated against serviceability and ultimate limit states etc.

Presented by: Nico Suttmoller, Aff M. ASCE, Aerix Industries

2:00PM - 2:50PM

OSHA Based Excavation Safety

From the viewpoint of a 35+ year occupational safety expert, you will cover what one needs to know when a competent person(s) is expected to work with this standard. This session includes (besides a brief cover to cover review of the standard) when to inspect, what to inspect, how to inspect and why. Active hazard awareness photos with lab work will be part of this entertaining and hands-on session. With limited group discussion, together we will highlight the "Cost" of not performing safely. This session also will briefly touch on the ANSI A10.12 Excavation standard.

Presented by: Michael Hayslip, CSP, Esq, PE (inactive), NESTI

3:00PM - 3:50PM

Foundation Solutions for Challenging Soils in Utility-Scale Solar Power Projects

This presentation explores geotechnical challenges in solar projects, including karst geology, soft organic soils with frost risk, and seismic liquefaction. It highlights foundation selection strategies—driven, helical, and screw piles, A-frame systems, and terrain-following trackers—along with site investigation and mitigation approaches to enhance constructability, cost efficiency, and long-term performance.

Presented by: Mohamed Alrowaimi, Ph.D., PE, Leeward Renewable Energy

4:00PM - 4:25PM

Revisiting CBR–LBR Correlations for Pavement Subgrade and Base Applications

This presentation examines the relationship between CBR and LBR for granular soils, proposing a nonlinear correlation consistent with soil mechanics and stiffness concepts. The influence of fines, field testing methods, and Florida pavement design thresholds are discussed to improve interpretation of strength and stiffness in pavement foundations.

Presented by: John Delashaw, PE, Madrid Engineering Group, Inc.

Geotechnical Track – Friday, July 24, 2026

Room: Atlantic 2

8:30AM - 9:20AM

Gabion Retaining Walls for Sidehills-Roadways Stabilization after Hurricane Maria in Puerto Rico

Evaluating roadway embankment/slope instability is a complex geotechnical challenge. This presentation reviews four roadway slope failures triggered by Hurricane Maria runoff, which

destroyed existing retaining walls. Value-engineered gabion wall solutions were developed to stabilize slopes up to 25 feet high.

Presented by: Jose Gomez, PE, BC.GE, Intertek/PSI

9:30AM - 9:55AM

New Jersey Transit Raritan River Bridge Foundations

The design and construction aspects of the foundations for the North Jersey Coast Line (NJCL) Raritan River Bridge Replacement project

Presented by: Raymond Mankbadi, Hardesty & Hanover, LLC

10:30AM-11:20AM

Rapid Consolidation of Thick Highly Compressible Floodplain Marine Clays Using Wick Drains and Surcharge

This presentation is an international case study concerning a large-scale ground improvement program to pre-consolidate up to 20 meters [65.6ft.] of highly compressible marine clays, along Panama's Pacific coast. The 75,000 square meter [7.4 ha.] project site, developed for a Class A educational campus, was originally designed considering deep foundation support. However, due to the requirements of the site's future infrastructure, and as a more cost-effective solution, an alternative soil improvement program through the implementation of wick drains and preloading was selected. This process would ultimately allow the use of shallow foundations, generating millions of dollars in foundation construction cost savings.

Presented by: Carlos Dowell, MSc, Langan; Omar Conte, PE, Langan and Roger Archabal, PE, Langan

11:30AM - 11:55AM

South Florida - At the Forefront of Augercast Piling

South Florida has been at the forefront of the use of augered cast-in-place (ACIP) piles for decades, in part due to its unique geology. This presentation gives a snapshot profile of the local record-setting advancements in ACIP pile technology over the last 50 years.

Presented by: Jon Sinnreich, PE, GRL Engineers, Inc.

12:00PM – 12:25PM

Statewide Sinkhole Susceptibility Assessment Using Explainable GeoAI

This presentation will introduce a transparent, data-driven workflow for statewide sinkhole susceptibility mapping. We will integrate geologic, hydrologic, topographic, and land use datasets with explainable GeoAI to produce interpretable susceptibility maps, quantify uncertainty, and identify key drivers. Results will support risk communication, prioritization of field investigations, and resilience planning.

Presented by: Weiwei Zhan, Ph.D., University of Central Florida

Professional Development Track – Thursday, July 23, 2026

Room: Atlantic 5

8:00AM-9:50AM

The Laws, Rules & Ethics of Florida – Las Olas Ballroom (this class only)

This FBPE-approved course reviews Florida's Engineering Practice Act (Ch. 471 F.S.), relevant DBPR provisions (Ch. 455 F.S.), Rule 61G15, and current ethics canons, using recent rule changes, disciplinary cases, and responsibility standards to reinforce engineers' legal duties to safeguard public health, safety, and welfare.

Presented by: Ed Bayo, Esq., Grossman, Roopnarine & Bayo, LLC

10:00AM - 10:50AM

Culture & Management

The employee experience is key and critical to any firm's success. When you get the culture right, the results will follow. This course aims to identify what company culture really is, and how to ensure its effectiveness for your firm from a manager's perspective.

Presented by: Albert Castro, ProEvolv

11:00AM - 11:50AM

Achieve Objectives More Frequently by Applying the Science of Information Design

Information Design can enable you to achieve your desired outcomes more frequently because its use of design elements in proposals, presentations, and technical reports is based on objective scientific principles and statistical data rather than subjective aesthetics and opinions. Thus, you can better motivate your audience to take desired actions.

Presented by: Chuck Roberts, PE, Performance Management Group, Inc.

2:00PM - 2:50PM

Engineering Ethics: Theory to Application

This presentation takes a different approach to engineering ethics. Rather than starting with case studies, it begins with the moral theories that shape ethical analysis, explores how differing theories can lead to different conclusions, and explains why this matters for civil engineering professionals.

Presented by: Carlos Bertha, Ph.D., A.M.ASCE, Bertha Education & Engineering Services, Inc.

3:00PM - 3:50PM

Developing a Risk Management Plan for Your Firm

This workshop guides design firms in building a proactive Risk Management Plan that supports smarter decisions and long-term success. Participants learn practical strategies to manage risk throughout the project lifecycle, from client selection to closeout, while strengthening firm culture, reducing claims, and improving overall performance.

Presented by: Erin Johnson, ARM, JCJ Insurance Agency and Mark Jackson, ARM, JCJ Insurance Agency

4:00PM - 4:25PM

Tips and Lessons Learned Preparing a LOMR (Letter of Map Revision) for FEMA

This presentation is about tools and trips for both the government and private professionals thinking about submitting a Letter of Map (LOMR) to the Federal Emergency Management Agency (FEMA). We will show how to prepare a LOMR application and supporting technical documents. We will talk about lessons learned from previous submittals to FEMA, what to expect from the RAI (Request for Additional Information), the timeline of the RAI and approval, technical skills needed such as Stormwise and GIS.

Presented by: Roland Raymundo, PE, CFM, Carnahan Proctor & Cross

Professional Development Track – Friday, July 24, 2026

Room: Atlantic 5

8:30AM - 9:20AM

Smarter Communities: Leveraging AI for Future Ready Public Agencies

Explore how artificial intelligence and digital innovation are transforming public infrastructure and community services. This session highlights the evolution of smart infrastructure, showcasing how AI driven analytics, connectivity, and predictive systems enhance resilience, efficiency, and equity-empowering local governments to build future-ready, sustainable, and smarter communities that meet citizen needs.

Presented by: Addie Javed, PhD, PE, Indian River County

9:30AM - 9:55AM

Introduction to OSHA and the Focus Four

The presentation starts with an introduction to OSHA, the rights of Employees, and the Responsibilities and Requirements of the Employer. It will the shift to the OSHA Focus Four. The top four ways workers can be hurt or die at a construction site.

Presented by: Eugenio Jaramillo, BSEE, MBA, Volunteer State Community College

10:30AM - 11:20AM

Report Card on Florida's Infrastructure

Presentation on 2025 Report Card on Florida's Infrastructure findings and recommendations.

Moderated by: Kathi Ruvarac, PE, The Bentley Group

Panelists: Sarah L. Matin, PE, Advanced Drainage Systems, Inc.; Heath Jenkins, PE, Chen Moore; Rob Best, PE, Chen Moore; and Doug Holdener, PE, Florida Concrete Pipe Association

11:30AM - 12:20PM

From Typewriters to TikTok: Working Together in a Multigenerational Workforce

With multiple generations working side by side, differences in communication and expectations can shape how teams perform. This session examines where generational misunderstandings

begin and how professionals can turn those differences into strengths. Attendees will leave with practical tools to improve collaboration and build more effective, multigenerational teams.

Presented by: Katie Hudson, Senior Right of Way Professional (SR/WA), Bowman Consulting Group (Bowman)

Structures Track – Thursday, July 23, 2026

Room: Atlantic 1

10:00AM - 10:50AM

Protecting our Troops: Structural Asset Management at a U.S. Military Base

When concrete fell from the ceiling during a briefing, the US Air Force questioned occupant safety in its structures. In response, WJE assessed 187 buildings to identify hazards and prioritize repairs. This presentation details that assessment and the custom-tailored relative-risk rating system developed to empower an objective asset management approach.

Presented by: Brian Calderone, PE, Wiss, Janney, Elstner, and Associates, Inc., Zack Sumislaski, PE, Wiss, Janney, Elstner, and Associates, Inc. and Suzanna Barna, EI, Wiss, Janney, Elstner, and Associates, Inc.

11:00AM - 11:50AM

The Longest Clear-Span FRP Composite Vehicular Bridge

This presentation explores the technical advancements behind this one-of-a-kind bridge structure, including material selection, structural design optimization, and manufacturing techniques that enabled the construction of an ultra-lightweight, high-strength span. Case study data, performance metrics, and lessons learned from the project will provide key insights into future applications of FRP composites.

Presented by: Ralph Verrastro, PE

2:00PM - 2:25PM

Field Investigation of Roofing Systems Following a Major Wind Event

During this presentation we will assess the vulnerability and failure mechanisms of various roofing assemblies- including low-slope membranes, concrete roof tiles, shingle roofs and flashing components-under extreme wind pressures and wind-driven rain.

Presented by: Maria Martinez Herrera, PE, NV5

2:30PM - 3:20PM

Collapse and Failure Investigations: The Why, The How, and What Do We Do Next?

From the Hyatt Regency to Champlain Towers, WJE has investigated nearly every major structural collapse in the United States in the last 50 years. Lessons learned from decades of investigation, stabilization and repair of collapsed and partially collapsed structures are presented with a particular focus on structures in Florida.

Presented by: Brent Chancellor, PhD, PE, FRSE, Wiss, Janney, Elstner Associates, Inc., Oscar Ardilla, PhD, Wiss, Janney, Elstner Associates, Inc. and Gary Klein, PE, SE, Wiss, Janney, Elstner Associates, Inc.

3:30PM - 4:20PM

Discerning Wind Damage to Residential Roofs

This presentation provides an overview of the forensic engineer's role in recognizing wind and non-wind related damage to residential roofs including shingle roofs and tile roofs. A basic overview of hurricanes and wind events and how winds affect properties of different geometries is also presented.

Presented by: Ziad Azzi, PhD, MBA, PE, DFE, CGC, CCC, FMPC, PMP, DDA Forensics

Structures Track – Friday, July 24, 2026

Room: Atlantic 1

8:30AM - 9:20AM

Repair of Double-Tee Shear Connectors Using T-Biscuits

This presentation will discuss the history of precast structures in the parking garage market, focusing on the connections between panels. These connections fail due to design, installation, and environmental factors, leading to independent movement between panels. The composite T-Biscuit is an alternative repair to the steel connections.

Presented by: Anthony Noto, PE, M.ASCE, V2 Composites, Inc.

9:30AM - 9:55AM

Concrete Repair and Shoring of an 8-Story Building

An eight story reinforced concrete building, was debilitated by an unscrupulous contractor, by chipping six reinforced concrete columns, creating an unsafe condition. The building was declared unsafe by the City of Miami Building Department. 139 families were moved out for 18 months.

Presented by: Juan Fernandez-Barquin, PE, SI, FRSE

10:30AM- 11:20AM

The Growing Importance of Building Component Design

This presentation highlights how windows, rooftop equipment, canopies, signs, fences, and other non-primary building elements can govern structural risk and permitting outcomes. It reviews wind loading principles, MWFRS vs. Components & Cladding classification challenges, and practical design considerations that influence safety, compliance, and resilience.

Presented by: Colby Bennardo, PE, Engineering Express

11:30AM - 12:20PM

How Misapplication of Testing Standards Can Lead to False Results

This presentation will differentiate between test standards applicable to performance evaluation of new fenestration products and those applicable to building leakage investigations. It will also illustrate ways that product certification test methods are misapplied during building investigations. and how such misapplications can result in false results and disputes among parties.

Presented by: Francesco J. Spagna, Simpson Gumpertz & Heger and Kyle Wyatt, PE, Simpson Gumpertz & Heger

Sustainability Track – Thursday, July 23, 2026

Room: Atlantic 4

10:00AM -10:50AM

Materials Innovation in Sustainability - Applications to GFRP Reinforcement

Materials innovation enhances safety, saves energy, reduces maintenance costs, helps protect the environment and achieves sustainable construction. Recent research, fabrication techniques, and construction applications show how GFRP is gaining momentum offering corrosion resistance, longevity, lighter weight, lower cost of transportation and materials handling, among other advantages over traditional reinforcing steel.

Presented by: Michel Soto Chalhoub, PhD, PE, SE, IS-CEM & UC Berkeley Pacific Earthquake Engineering Research (PEER) Ctr.

11:00AM-11:25AM

Engineering Nature: Scalable, 3D-Printed Coastal Infrastructure Solutions

This session presents 3D-printed Living Seawalls as direct 1:1 replacements for conventional concrete panels. Attendees will explore structural testing, wave attenuation, and ecological performance, with South Florida case studies highlighting design adaptation, permitting, and construction integration.

Presented by: Andrew Valdes, Kind Designs, Jeremy Morris, Kind Designs, and Madisen Rieger, Kind Designs

11:30AM - 11:55AM

Design of a Full-Scale Facility for Extreme Wind, Surge, and Wave Events

We present design of a National Full-Scale Testing Infrastructure for Community Hardening in Extreme Wind, Surge, and Wave Events (NICHE). The facility, when constructed, would be the largest in the world and enable simulation of wind, wave, surge, and currents at full scale as driven by tropical cyclones including hurricane.

Presented by: Jack Puleo, Ph.D , Florida International University and Arindam Chowdhury, Ph.D., Florida International University

2:00PM - 2:50PM

Content and Status of ASCE's Nature Based Design Manual of Practice

Learn about ASCE's new Manual of Practice for Nature-Based Design, it's content, status and application to projects.

Presented by: Robert Prager, PE, CVS, Strategic Value Solutions, Inc.

3:00PM -3:50PM

Fore! Proactive Coastal Resiliency at the Gulf Stream Golf Club

This session examines coastal flooding and groundwater interactions at an oceanside property, highlighting how sea level rise, tides, and rainfall influence flood risk. Attendees will learn assessment methods, modeling approaches, and phased mitigation strategies applicable to Florida's vulnerable coastal environments.

Presented by: Colton Manning, PE, Cummins Cederberg and Jordan Cheifet, PE, CFM, Cummins Cederberg

4:00PM-4:25PM

Application of Life-Cycle Sustainability Assessment (LCA) to Highway Bridge Design and Preservation

This presentation examines how life cycle assessment (LCA), a common, recognized tool in the product sustainability space, can be applied to bridge design and preservation decisions. The presentation will introduce the basic concepts of LCA, highlight practical applications, data needs, and decision-making benefits for engineers seeking more sustainable bridge infrastructure strategies over time. Lastly, basic bridge preservation case study using LCA will be discussed.

Presented by: Zachary Haber, PE, Ph.D., University of South Florida

Sustainability Track – Friday, July 24, 2026

Room: Atlantic 4

8:30AM - 9:20AM

Resiliency in Action: Navigating Water's Influence from Concept to Construction

This session examines how coastal resiliency concepts transition from planning to construction using a local City of Hollywood case study. Attendees will explore technical, regulatory, and constructability challenges associated with tidal flood barriers, shoreline stabilization, and nature-based solutions implemented under real-world coastal and urban constraints.

Presented by: Jordon Cheifet, PE, CFM, Cummins Cederberg

9:30AM - 9:55AM

Foresnic Engineering Evaluatio of a Fire Impact of Culvert and Storm Drainage Pipe Systems

Transportation systems depend on the consistent operation of their drainage pipeline systems. As the engineering community has become more aware of the importance of designing resilient infrastructure, the impact of accidental diesel and gasoline spills on culvert pipelines and drainage systems has taken front relevance. This presentation is a good example of the approach and methods available to the engineering community for the evaluation and resolution of such incidents. This presentation includes a set of national standards applicable to these evaluations. If you are tasked with designing and or maintaining resilient culvert and storm drainage systems, then this presentation should be of interest to you.

Presented by: Angel De Jesus, PE, ADJPSE

10:30AM - 11:20AM

Western Everglades Restoration - Culvert Connection

The South Florida Water Management District's Western Everglades Restoration Project (WERP) aims to improve quantity, quality, timing and distribution of water in the Western Everglades. This overall plan is anticipated to reestablish ecological connectivity and resilience across the historic wetland/upland mosaic while maintaining existing levels of water supply and flood control. As part of WERP, the L-28 Culverts are three structures that will provide a connection between the WCA-3A and Big Cypress National Preserve. Future projects will also be discussed.

Presented by: Phoebe Cuevas Molina, PE, Erdman Anthony

11:30AM - 12:20PM

Vacation Beach Rentals: What to Look For?

This presentation will focus on the growing number of beach rentals in Tampa Bay and what to look for if you are purchasing one and need to consider renovations.

Presented by: Lee-En Chung, PE, LEED AP, Ivy Ventures

Transportation Track – Thursday, July 23, 2026

Room: Atlantic 6

10:00AM - 10:50AM

MUTCD 11th Edition, Temporary Traffic Control, and Human Factors

The 11th Edition of the MUTCD is effective. This discussion will review the history of the MUTCD, some changes from prior editions, and human factors that influenced the document. We'll discuss how to navigate between the MUTCD and Florida DOT 102-600 Indexes. Finally, some real-world installations will be discussed.

Presented by: John McCarty, PE, Orange Barrel Engineers, Inc.

11:00AM-11:50AM

Design and Construction of Airports

Thinking operationally is the key to successful projects in the aviation world. Construction cannot delay or disrupt the operation of the airport. The designer must think about the staging, phasing and access to the project to minimize operational constraints. This presentation will discuss several airport projects and the operational constraints considered during design and implemented during construction.

Presented by: Heath Jenkins, PE, Chen Moore

2:00PM - 2:50PM

When to Get SUE and Not Get SUE... That Is the Question

This session explains when and why Subsurface Utility Exploration (SUE) should be used and how engineers can apply SUE data to identify and evaluate utility conflicts. Attendees will learn how to distinguish direct versus indirect conflicts and how to use a utility conflict matrix to support coordinated project development.

Presented by: Melonie Schwartz, Bentley Group Inc. and Jessica Cruz, Bentley Group Inc.

3:00PM - 3:25PM

BAE Systems Maritime Solutions - Shiplift Dry-Docking Complex

Shiplift Dry Docking Complex, BAE Systems Maritime Solutions - Jacksonville FL

Presented by: Douglas Ernst, PE, Foth

3:30PM - 3:55PM

Design and Construction of Concrete Overlays of Asphalt Pavements

Selecting the appropriate rehabilitation strategy is critical for the long-term performance of aging composite and asphalt pavements. This presentation provides a technical deep-dive into the selection, design, and construction of both bonded and unbonded concrete overlays.

Presented by: Ty Chiles, Florida Concrete & Products Association

4:00PM - 4:25PM

Designing 50 Year Concrete Pavements before Major Maintenance

A Free Web Based Pavement Design Tool: PavementDesigner.org, will be introduced to rapidly Design a Concrete Pavement Thickness for Jointed Plain Concrete Pavement that will Perform 50 years before any Major Rehabilitation. Input values of lane width, transverse joint length and percent cracked slabs at 50 years will be demonstrated.

Presented by: Roger Schmitt, PE, M ASCE, Florida Concrete and Products Association

Transportation Track – Friday, July 24, 2026

Room: Atlantic 6

8:30-9:20AM

FDOT Test Road Overview and Update

This presentation will provide an overview of the Department's Concrete and Asphalt Test Roads located on US 301 in Clay County. The presentation will summarize the test road objectives, highlight the base studies on each test road, and review the initial findings from this project.

Presented by: Howard Moseley, PE, FDOT State Materials Office

9:30AM - 9:55AM

Dilemma Zone Safety with an Intelligent Intersection Control System

Learn how an Integrated Intelligent Intersection Control System (III-CS) reduces dilemma-zone crashes using Dynamic All-Red Extension and Dynamic Green Extension. Deployment lessons will be summarized from seven high-speed intersections and its potential in Florida will be presented.

Presented by: Yao Cheng, Ph.D., Florida Atlantic University

10:30AM -11:20AM

Mastering Composite Pavement Design: Lessons from Dual Case Studies

This presentation discusses composite pavement design principles for heavy traffic and variable conditions, with recommendations for Florida geotechnical conditions. Two representative case studies are reviewed, including lessons learned from a critical design oversight that led to premature pavement failure and the corrective strategies implemented to restore performance.

Presented by: Behnam Golestani, Ph.D., P.E., Professional Service Industries, Inc (PSI)

11:30AM – 12:20PM

SR A1A over Sebastian Inlet Bridge Replacement Project (5 Key Decisions)

This presentation will provide an overview of the SR-A1A over Sebastian Inlet Bridge replacement project highlighting 5 key decisions that were made during the Project Development & Environment (PD&E) study and Design phases. The presentation will discuss design decision processes and FDOT's continued focus on community centered project delivery approach to improve safety for all modes of transportation.

Presented by: Binod Basnet, PE, Florida Department of Transportation District 4

Utilities Track – Thursday, July 23, 2026

Room: Atlantic 3

10:00AM - 10:50AM

Applying ASCE 38-22 to Enhance Subsurface Utility Data Reliability

ASCE 38-22, the latest version of the American Society of Civil Engineers' standard for utility investigations, establishes clear guidelines for collecting and depicting utility data. The presentation will highlight the importance of these standards in ensuring accuracy, reducing project risks, and improving safety during infrastructure development.

Presented by: Daniel M. Checchia, Colliers Engineering and Design

11:00AM - 11:50AM

Solving Microbially Induced Corrosion in Wastewater Structures

Microbially induced corrosion (MIC) is a leading cause of premature failure of wastewater infrastructure. Polymer concrete solves the MIC problem from first principals, by replacing corrosion-susceptible Portland cement with corrosion-proof polyester resin. Polymer concrete structures are the sustainable choice for long lasting infrastructure.

Presented by: Tom LaRue, Armorock Utilities

2:00PM - 2:25PM

Polymer Concrete Structural Rehab Inserts

Microbially induced corrosion (MIC) rapidly degrades Portland-cement wastewater structures. Coatings and liners are non-structural and require extensive surface preparation, leaving weakened host structures to carry design loads. Polymer concrete provides a permanent,

structural alternative: its polymer resin binder and inert aggregates are corrosion-proof with a minimum 10,000psi compressive strength.

Presented by: Tom LaRue, PE, Armorock Utilities

2:30PM - 2:55PM

Life Cycle Cost Analysis of Corrosion Control for Ductile Iron Water Mains

A summary of the results of a life-cycle cost analysis that was conducted on two different diameters of ductile iron pipe, two different pipe classes for each pipe diameter, five different corrosion control options in two different pipeline environments (one with corrosive soils and the other with moderately corrosive soils).

Presented by: Michael Szeliga, PE, Independent Corrosion Consultant and Samuel Thomas, Liberty Coating Company

3:30PM - 3:55PM

Pioneering Trenchless Rehab: First-Ever DR-11 CompressionFit Installation

Discover how Waterbury, CT pioneered the world's first DR11 CompressionFit installation to rehabilitate a critical 42-inch PCCP water main. This trenchless solution delivered structural integrity, hydraulic performance, and minimal disruption, offering a scalable model for utilities facing aging infrastructure and complex corridor challenges.

Presented by: Marissa Maring, PE, Murphy Pipeline Contractors

4:00PM - 4:50PM

Sewer Savvy- Asset Management and Cocoa Beach's Innovative GIS approach

Asset management always benefits utilities. The City of Cocoa Beach takes asset management to a new level integrating GIS driven programs to enhance its wastewater collection system management.

Presented by: Sheryl Parsons, Mead and Hunt, Inc. and Ryan Eckdale-Dudley, Mead and Hunt, Inc.

Utilities Track – Friday, July 24, 2026

Room: Atlantic 3

8:30AM - 9:20AM

Underground Innovations in Electric T&D

The demand for cleaner electric energy grows each year with the electrification of transportation, space conditioning, vertical agriculture, industrial processes, and hyper-scalers. Some say that America will double or triple its current peak demand requirements by 2050.

Presented by: Mike Beehler, PE, Mike Beeler & Associates, LLC

9:30AM – 9:55AM

City of Ft. Lauderdale AM-CMOM Implementation

Overview of the AM-CMOM program, implemented to strengthen wastewater collection system management. 45 action items were developed related to wastewater pump stations, gravity

mains, and force mains. The presentation will focus on the asset inventory and condition assessments of 185 pump stations, and Asset Insights dashboard developed for dynamic capital improvement planning.

Presented by: Ingrid Kindbom, City of Ft. Lauderdale Utility Services Department; Alexandra Kelly, PE, Hazen and Sawyer; Sean FitzGerald, Hazen and Sawyer; Dilip Kumar, Ph.D., Hazen and Sawyer; and Vincent Locigno, PE, Chen Moore

10:30AM – 10:55AM

City of Fort Lauderdale Force Mains Replacement and Rehabilitation

Overview of the sewer force main replacement and rehabilitation program undertaken by the City of Fort Lauderdale to improve the system's reliability, redundancy, and capacity. Focus projects will include the GTL WWTP redundant force main, SE 10th Ave and US-1 48-inch force main, and NE 38th St force main.

Presented by: Gabrielle Bork, PMP, City of Ft. Lauderdale Public Works Department; Cyrill Garcia, City of Ft. Lauderdale Public Works Department; William Power, Hazen and Sawyer; Khamis Al-Omari, Hazen and Sawyer; Diana Francois, Jacobs; and Michael Robinson, Hazen and Sawyer

11:00AM – 11:25AM

Collaborative Delivery of Prospect Lake WTP

The City of Fort Lauderdale (City) is presently implementing the largest public-private partnership (P3) water treatment plant (WTP) through the Prospect Lake Clean Water Center (PLCWC)—a 50 MGD advanced WTP. PLCWC is nearing construction completion using a Design-Build-Operate-Maintain-Finance (DBOMF) P3 model. The PLCWC demonstrates how the City, the Owner's Advisor and the P3 entity work together to maintain budget, schedule, and quality of construction.

Presented by: Albert Carbon, City of Ft. Lauderdale, and Janeen Wietgreffe, Hazen and Sawyer

11:30AM – 11:55AM

Fortify Lauderdale – Building a Resilient Future in Fort Lauderdale, Overview of the City's Stormwater Program, including the restoration of Osceola Creek

Fort Lauderdale's low-lying topography, limited soil storage, and tidally influenced groundwater create severe flood susceptibility. This presentation overviews the City's Fortify Lauderdale Stormwater Program and its phased capital improvement strategy, followed by a detailed case study of the Osceola Creek Restoration – a multi-agency conveyance project critical to the South Fork New River watershed.

Presented by: Sayd Hussain, City of Ft. Lauderdale; Andres Rivera, PE, Hazen and Sawyer; and Rachel Loffing, PE, Hazen and Sawyer

12:00PM - 12:25PM

SLAM LiDAR Applications in Utility Design and Infrastructure

This presentation examines how SLAM LiDAR improves utility design and infrastructure projects through rapid, high- accuracy data collection. Learn how it supports existing conditions mapping, clash detection, as-built verification, and CAD/BIM integration - enhancing design accuracy, safety, and efficiency while reducing field time and costly change orders.

Presented by: Mark Bickel Jr, SurvTech Solutions, Inc. and Fabiano Santos, SurvTech Solutions, Inc.

Water/Water Resources Track – Thursday, July 23, 2026

Room: Himarshee

10:00AM - 10:25AM

Dover Ditch Living Shoreline

The Dover Ditch Living Shoreline project aimed to improve the westernmost 350 feet of a drainage canal that provides flood protections for parts of Tequesta and Jupiter. This presentation goes over the project timeline, starting from obtaining grant funding and ending with final construction of the shoreline.

Presented by: Justin Tagle, PE, Chen Moore

10:30AM - 11:25AM

Basic SWMM Stormwater Modeling

EPA Stormwater Management Model (SWMM) is a venerable hydrologic and hydraulic modeling program. This presentation will discuss basic model setup, differences between SWMM and other popular programs, and how to design stormwater ponds and storm sewers.

Presented by: Colin Miller, PE, PMP, CFM, McKim & Creed, Inc.

11:30AM - 11:55AM

Stuck Between Gulf and Bay: Utilizing Vegetated Slopes for Nutrient Removal

FDOT case study investigates the use of Vegetated Filter Strips (VFS) to provide nutrient removal as part of the SR 30 PD&E Study conducted to widen and improve a 5.1-mile roadway segment in coastal Okaloosa County, Florida along environmentally sensitive lands within Gulf Islands National Seashore.

Presented by: Jennifer Nunn, PE, CFM, BC.WRE, The Balmoral Group

2:00PM - 2:50PM

The Evolution of Bioretention: From Nature Based to Modern Stormwater Solutions

Bioretention has evolved from nature based systems in the 1990s to advanced designs addressing modern stormwater challenges. This session explores media innovations for nutrient removal, standardized testing, and regulatory impacts like Florida's new stormwater rule. Attendees will learn how bioretention products are engineered, tested, and provide performance and compliance.

Presented by: Sarah L. Matin, PE, Advanced Drainage Systems, Inc.

3:00PM - 3:25PM

SR 30 PD&E: Avoiding Impacts to State Lands Using 3D and H&H Modeling

Using the Best Available Data to Optimize Stormwater Management: Avoiding Impacts to State Lands in Walton County using 3D and H&H Modeling

Presented by: Jessica Moore, PE, The Balmoral Group

3:30PM - 4:20PM

From Viability Assessment to Implementation: Citywide Living Shorelines

This session demonstrates how shoreline viability assessments can be translated into engineered, permitted coastal infrastructure. Using three City of Miami Beach case studies, the presentation highlights technical design considerations, regulatory coordination, and implementation strategies that advance living shoreline concepts from planning frameworks to construction-ready projects.

Presented by: Leonard Barrera Allen, PE, ENV SP, CFM, WEDG, Cummins Cederberg

Water/Water Resources Track – Friday, July 24, 2026

Room: Himarshee

8:30AM - 8:55AM

Central Everglades Planning Project North (CEPP-N)

The Central Everglades Planning Project North (CEPP-N) is a component of the Comprehensive Everglades Restoration Plan (CERP) passed by Congress in 2000. The purpose of CEPP N is to improve the quantity and distribution of flows into the Water Conservation Area 3A through canal improvements, a new distribution system into the Everglades and backfilling 13-miles of the Miami Canal. The presentation will review to objectives of the project and discuss some of the specific challenges required to complete this project.

Presented by: Mike Albert, PE, Chen Moore

9:00AM - 9:50AM

The Evolution of Emerging Contaminants - Moving Beyond PFAS

While PFAS deserve attention, there is a growing consensus that other emerging contaminants are underrepresented in research, regulation, and public discourse. A more balanced, holistic approach is needed—one that invests in detection, regulation, and remediation for the full spectrum of emerging threats to ecosystems and public health.

Presented by: Nicholas Albergo, PE, DEE., F.ASCE, D. WRE, F. EWRI, GHD Services Ltd.

10:30AM - 11:20AM

On Common Ground: What Civil Engineers Can Learn from Landscape Architects

This session explores how early collaboration between Civil Engineers and Landscape Architects can improve site and stormwater design outcomes. Attendees will learn how interdisciplinary coordination, creative infrastructure, and stronger storytelling can add value to projects and the profession.

Presented by: Mary Sullivan, PE, PLA, Little Diversified Architectural Consulting and Hannah Barefoot, PLA, Little Diversified Architectural Consulting

11:30AM-12:20PM

Beyond Drainage: Leveraging Data for Climate-Resilient Stormwater Planning

Learn how to transform high-resolution geographic data and machine learning into actionable stormwater master plans. This session focuses on integrating tree canopy analysis and green infrastructure to meet city comprehensive plan goals, moving beyond drainage to tackle urban heat islands and build climate-resilient communities.

Presented by: Matt Brosman, PE, Kimley-Horn and Karin Teuffer, PE, Kimley-Horn