



PO Box 1372, Lake Worth, FL 33460

**Florida Section ASCE 2017 Annual Conference Technical Sessions**  
**July 20-22, 2017 at the Marriott Orlando World Center**

- **Subject to change without notice**

**Construction**

West Palm Beach 48-inch PCCP Main CIPP Rehabilitation  
Andrew Costa, Insituform technologies/Aegen Corp. - .5 PDH

External Repair of Existing Pipelines Using Carbon Fiber Reinforced Polymers  
Amber Jasmine Wagner, PhD, PE, Fyfe Co. - .5 PDH

**Environmental & Water Resources**

The Value of Comprehensive Leak Detection: Reducing Real Water Loss  
Brad Gresham, Wachs Water Services - .5 PDH

An Image Processing Technique to Determine the Efficiency of Energy Dissipation  
Amirmasoud Hamed, Ph.D Candidate, Florida International University - .5 PDH

City of Altamonte Springs Potable Reuse Pilot: pureALTA  
JoAnn Jackson, City of Altamonte Springs - .5 PDH

Jordan Compact – A \$275 Million Grant for Conserving Water by Agricultural Reuse  
Shajan Joykutty, PE, Hazen and Sawyer - .5 PDH

Ocala, Florida - From CRS Class 8 to 3: Strategies and Lessons Learned  
Sean Lanier, PE, CFM and Payal Pandya, PE, CFM, City of Ocala - .5 PDH

Comparative Analysis of Success Factors for Global Implementation of Anaerobic Digestion of Waste/Sustainable and Green Transport Infrastructures  
Fazil T. Najafi, Ph.D., University of Florida

E. coli Inactivation In The Floridan Aquifer During the Storage Phase of ASR  
John T. Lisle, PhD, Microbial Ecologist, US Geological Survey - .5 PDH

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Taking Direct Potable Reuse in Florida to the Next Level: A Demonstration Test  
Jo Ann Macrina, PE, City of Daytona Beach Utilities - .5 PDH

Emerald Coast Utilities (ECUA) Environmental Advantage  
Jim Roberts, Emerald Coast Utilities Authority - .5 PDH

A Customized Hydrologic Routing Model for Treatment Wetland System in SW Florida Water Management District  
Lei Yang, Ph.D, Southwest Florida Management District - .5 PDH

### **Geotechnical**

Deep Soil Mixing Cutoff Wall and Bottom Plug  
Ghassan Akrouch, Ph.D, PE, Hayward Baker – 1 PDH

An Overview of the Federal CCR Rule and Some Implementation Considerations  
Kwasi Badu-Tweneboah, Ph.D., PE, Geosyntec Consultants

The Use of Wicking Geotextile to Enhance Lateral Drainage in Pavement Systems  
Nathalia P. Barbosa de Castro, MSc., TenCate Geosynthetics - .5 PDH

Life of a Smart Pile  
Aneesh Goly, Ph.D., Smart Structures

Innovations in Rehabilitation of Aging Bridge Abutments  
Kyle Guenther, MS, PE, GeoStabilization International - .5 PDH

Testing Methods for Structural Integrity Assessments of Deep Foundations – 1 PDH  
Mohammad Hussein, PE, GRL Engineers – 1 PDH

An Introduction to the Use of Geosynthetics for Basal Reinforcement  
Marco Isola, Ph.D, PE, Maccaferri Inc. – 1 PDH

Gravity Sewer Pipeline Support over waste Phosphatic Clay Using GeoFoam  
Larry D. Madrid, PE, F.ASCE, Madrid Engineering Group and Mark Addison, PE, Polk County Utilities Division – 1 PDH

Specialized Construction Technologies for the Control of Groundwater Flow  
Christopher R. Ryan, PE, D.GE.

An Introduction to Cellular Concrete and Advanced Engineered Foam Technologies  
Nico Sutmoller, Aerix Industries

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## How Is Florida Dealing with So Many Sinkholes?

Takefumi Takuma and Ian Vaz, GIKEN - .5 PDH

### **Professional Development**

Ensuring Successful Stakeholder (Community) Involvement

Nicholas Albergo, PE, DEE, GHD Services, Inc. – 1 PDH

### Laws/Rules/Ethics

Ed Bayo, Esq., Grossman, Furlow, & Bayó – 2 PDH

Key Provisions in Engineering & Design/ Managing and Navigating Claims on Design Professional Liability insurance Professional Contracts

Trent Cotney, Trent Cotney Construction Law Group – 1 PDH

Everything I Know About Being a Good Engineer I Learned from My Dogs

Mark L. Mongeau, PE, Ardaman & Associates – 1 PDH

Seven Secrets to Superior Writing for Engineers

Chuck Roberts, Performance Management Group – 1 PDH

W@#t! - The Dirtiest Four-Letter Word in Business and Government

Chuck Roberts, Performance Management Group – 1 PDH

Leadership Seminar

Chris Sharek, Sharek Solutions, Inc. – no PDH

### **Structures**

Barrier Cable Design

Jairo A. Arana, PE, MSCE, PTE Systems International – 1 PDH

Unique FRP Anchoring Details Are Proof Tested by New Zealand's Earthquakes

Scott Fine Arnold, PE, Fyfe Co/An Aegion Company - .5 PDH

Use of Horizontally Curved Precast Concrete U-Girders for Ramp Construction

Ted Davidson, PE, Parsons, and Don Hammack, PE, Dewberry - .5 PDH

Automated People Mover at the Tampa International Airport

Sam Edwards, PE, Walter P. Moore – .5 PDH

Connected Infrastructure

Aneesh Goly, Ph.D., Smart Structures

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ASCE Wind Loads 7-16

David O. Prevatt, Ph.D., University of Florida – 1 PDH

SIPP: Implementation Methodology for Surviving Pressure Pipe Failure

Kent Weisenberg, SIPPTech

### **Transportation & Land Development**

Applications of Advanced Technologies in Transportation Planning, Traffic Engineering and Public Transportation

Murthy VA Bondada, Ph.D, PE, F.ASCE, EPIC Engineering & Consulting LLC – 1 PDH

Building of the Transcontinental Railroad

Robert T. Hintersteiner, PE – 1 PDH

ACI Guidelines for Design and Construction of Portland Cement Concrete Pavements

Raphael Jimenez, PE, CEMEX – 1 PDH

Guidelines for Cost-Effective Specification of Cast In Place Concrete

Rafael Jimenez, PE, CEMEX - .5 PDH

Concrete Pipe Design and Overview of Installation and Inspection Pitfalls

Sarah L. Matin, PE, Rinker Materials - Concrete Pipe Division – 1 PDH

Drones/UAVs in Engineering – Real World Practice

Rick Wygant, Alert5 International LLC – 1 PDH

### **Utilities**

Optimizing Utility Investigations on Large Design-Build Projects

Jim Anspach, Cardno

An Asset Management Approach for Valves & Hydrants

Brad Gresham, Wachs Water Services - .5 PDH

Best Practices of UDF: Improve Water Quality and Reduce Customer Complaints

Brad Gresham, Wachs Water Services - .5 PDH

Directional Drilling and Utilities – Case Studies

James LaCava, Antioch Engineering

Merging Data from Multiple Collection Platforms for Transportation Projects

Matthew LaLuzerne, PMS, Aerial Cartographics of America, Inc. – 1 PDH

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I-4 Ultimate: the Ultimate Utility Coordination Effort  
Vinnie LaValette, Cardno

Overview of New Datums 2011 to 2011  
David Newcomer, PE, GP Serv - .5 PDH

Let's Grow! Why Your Economy Needs Public Sanitary Sewers  
Christopher Zavatsky, Tetra Tech, Kenneth Caban, Tetra Tech and Jose Cueto, Miami-Dade Water and Sewer Department

**Friday Breakfast Presentation**

ASCE 2017 Report Card for America's Infrastructure  
Fraser Howe, PE, Tonya Mellen, PE – 1 PDH

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