

2017 National Conference on Beach Preservation Technology

February 8-10 ♦ Hutchinson Island Marriott ♦ Stuart, FL

as of 1-23-17

Wednesday, February 8, 2017

OPENING SESSION

1:00 p.m. to 8:00 p.m.

1:00 p.m.

Welcome – Martin County Commissioner Ed Ciampi

1:10 p.m.

Hurricane Forecasts and Impact Decision Support Information

Robert Molleda, National Oceanic and Atmospheric Administration, National Weather Service, Miami, FL

1:40 p.m.

FEMA Coastal Hazard Mapping and Beyond – What FEMA is Doing to Increase Flood Risk Communication

Michael DelCharco, P.E., Taylor Engineering, Inc., Jacksonville, FL and Christina Lindemer, Federal Emergency Management Agency, Region IV, Atlanta, GA

2:00 p.m.

The 2016 Hurricane Season in Historic Perspective: Matthew, Hermine and Storms from Years Gone By

Michael Jenkins, Ph.D., P.E., Applied Technology and Management, Inc., West Palm Beach, FL

2:20 p.m.

An Inland Perspective on Hurricane Impacts and the 2016 Storm Season

Tim Blankenship, P.E. Moffatt & Nichol, Inc. Miami, Florida

2:40 p.m.

Professional Exchange Break

3:10 p.m.

The Impact of Hurricane Matthew on the Atlantic Coast of Florida

Ralph Clark, P.E., Jennifer Steele, Ph.D., P.G., William Weeks, and Michael Manausa, Division of Water Resource Management, Florida Department of Environmental Protection, Tallahassee, FL

3:35 p.m.

How the USACE's Overall Hurricane Response Efforts Have Evolved, and the Specific Response and Observations Following Hurricane Matthew

Jason Engle, P.E., Kevin Hodgins, P.E. and Jennifer Coor, Ph.D., P.G., U.S. Army Corps of Engineers, Jacksonville District, FL

4:00 p.m.

Hurricane Matthew Impacts to Jacksonville Beaches

Kevin Bodge, Ph.D., P.E. and Steve Howard, P.E., Olsen Associates, Inc., Jacksonville, FL

4:25 p.m.

Game of Inches: Nuisance Flooding and the King Tide Phenomenon

David Kriebel, Ph.D., P.E., Ocean Engineering Department, U.S. Naval Academy, Annapolis, MD

4:50 p.m.

Sea Level Rise Adaptation for a Portfolio of Assets

Angela Schedel, Ph.D., P.E., Commander, U.S. Navy, Ocean Engineering Department, U.S. Naval Academy, Annapolis, MD

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OPENING SESSION

1:00 p.m. to 7:30 p.m.

5:15 p.m.

Return Period Economics: The Impact of Sea Level Rise

David Kriebel, Ph.D., P.E., Ocean Engineering Department and John Schedel, Ph.D., P.E., Commander, U.S. Navy, Mechanical Engineering Department, U.S. Naval Academy, Annapolis, MD

5:40 p.m.

Adjourn

6:00 p.m.

Welcome Reception

Location: Exhibit Hall (6:00 - 7:00 pm) and Poolside (7:00 - 8:00 pm)

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Thursday, February 9, 2017

CONCURRENT SESSIONS

8:00 a.m. to 10:05 a.m.

SESSION A

8:00 a.m.

Summer Haven River Restoration Project and the Hurricane Matthew Breach

Kenneth Craig, P.E. and Michael Trudnak, P.E., Taylor Engineering, Inc., Jacksonville, FL

8:25 a.m.

Hurricane Matthew Impacts and Response in Indian River County, FL

Will Reilly, P.E. and Michelle Pfeiffer, P.E., CB&I, Boca Raton, FL and James Gray, Jr., Public Works, Indian River County, FL

8:50 a.m.

Pre Post Storm Photographic Assessment of Hurricane Hermine

John Bishop, Ph.D. and Andrew Squires, Pinellas County Environmental Management Division, Clearwater, FL

9:15 a.m.

Honeymoon Island Erosion Control Project Performance during 2016 Tropical Season

Brett Moore, P.E., Humiston & Moore Engineers, Naples, FL

9:40 a.m.

The Tale of Two Storms and Two Islands: 2016 Storm Season Impacts and Response in Anna Maria Island and Lido Key, FL

Michelle Pfeiffer, P.E., Thomas Pierro, P.E., and Will Reilly, P.E., CB&I, Boca Raton, FL

10:05 a.m.

Professional Exchange Break

SESSION B

8:00 a.m.

Lessons Learned Designing and Permitting Living Shorelines and Successful Seagrass Mitigation Options

Dianne Rosensweig, M.P.H. and Thomas Ries, Scheda Ecological Associates, Inc., Sarasota and Tampa, FL

8:25 a.m.

The Evolution of Lake Worth Lagoon Restoration and Living Shorelines Projects

David Carson and Eric Anderson, Palm Beach County Department of Environmental Resources Management, West Palm Beach, FL

8:45 a.m.

Innovative Seagrass Habitat Creation Approach at the Rookery at Perico Preserve in Coastal Southwest Florida

Ryan Horstman, ICON Consultant Group, Tampa, FL and Damon Moore, Manatee County Parks and Natural Resources Department, Bradenton, FL

9:05 a.m.

Grassy Flats Restoration: Creatively Capping Muck to Restore Lake Worth Lagoon

Eric Anderson, Palm Beach County Department of Environmental Resources Management, West Palm Beach, FL

9:25 a.m.

Implementing Living Shorelines in Highly Urbanized Environments

Nicole Sharp, P.E., Greg Ward, and David Stout, Environmental Planning and Community Resilience Division, Broward County, FL

9:45 a.m.

Coastal Restoration with Breakwaters

Bruce Hasbrouck, Faller, Davis & Associates, Inc., Tampa, FL

10:05 a.m.

Professional Exchange Break

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CONCURRENT SESSIONS

10:35 a.m. to 12:15 p.m.

SESSION C

10:35 a.m.

Collier County Beach Renourishment Projects: North County and South Marco Island Status of Construction
Gary McAlpin, P.E., Coastal Zone Management, Collier County, FL, and Tara Brenner, P.G. and Stephen Keehn, P.E., Coastal Planning & Engineering, Inc., Boca Raton, FL

11:00 a.m.

Development and Construction of the Longboat Key, FL 2016 Multi-Phase Beach Nourishment Project
Albert Browder, Ph.D., P.E. and Juan Florensa, Town of Longboat Key, FL

11:25 a.m.

Miami Beach Hotspot Project Summer 2016
Jamie Monty, Department of Regulatory and Economic Resources, Miami-Dade County, FL and Betsy Wheaton, Environment and Sustainability Department, City of Miami Beach, FL

11:50 a.m.

Renourishment of Pensacola Beach, FL
Krista Egan and Albert Browder, Ph.D., P.E., Olsen Associates, Inc., Jacksonville, FL

12:15 p.m.

Luncheon

SESSION D

10:35 a.m.

A Regulatory Perspective on Seagrass Monitoring
Jennifer Peterson, Ph.D., Division of Water Resource Management, Florida Department of Environmental Protection, Tallahassee, FL

11:00 a.m.

A Preliminary Review of Beach Profile and Nearshore Hardbottom Interactions
Douglas Mann, P.E., CB&I, Boca Raton, FL

11:25 a.m.

Regulation and Evaluation of Hardbottom Monitoring
Brendan Biggs, Ph.D. and Lainie Edwards, Ph.D., Division of Water Resource Management, Florida Department of Environmental Protection, Tallahassee, FL

11:50 a.m.

Sand Tracer Study in the Fort Pierce Inlet
Erin Hodel, CSA Ocean Sciences Inc., Stuart, FL, Jonathan Marsh, Ph.D., ETS Worldwide Ltd., Helensburgh, UK, Michael Trudnak, P.E., Taylor Engineering, Inc., Jacksonville, FL, and Richard Bouchard, P.E., St. Lucie County Erosion District, Ft. Pierce, FL

12:15 p.m.

Luncheon

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CONCURRENT SESSIONS

1:15 p.m. to 3:20 p.m.

SESSION E

1:15 p.m.

Improving Coastal Resilience through Dunes

Doris Otero, Michelle Pfeiffer, P.E., and Thomas Pierro, P.E., CB&I, Boca Raton, FL

1:40 p.m.

Sediment Sorting During Coastal Restoration Projects: Implications for Resource Management, Environmental Impacts, and Multiple Use Conflicts

Katherine Brutsché, Ph.D., Coastal Hydraulics Laboratory, U.S. Army Engineer Research and Development Center, Vicksburg, MS and Douglas Piatkowski, Bureau of Ocean Energy Management, Headquarters, Department of the Interior, Sterling, VA

2:05 p.m.

Web Application for Siting Nearshore Placement Areas of Dredged Sediment

Katherine Brutsché, Ph.D. and Brian McFall, Ph.D., Coastal Hydraulics Laboratory, U.S. Army Engineer Research and Development Center, Vicksburg, MS

2:30 p.m.

Proof of Concept Tests UAS Feasibility for Coastal Surveys

Tim Cawood, PLS, McKim & Creed, Inc., Wilmington, NC

2:55 p.m.

Applications of Full Motion Video (FMV) Technology in Examining Coastal and Nearshore Issues

Jodi Harney, Ph.D. and Dustin Myers, CSA Ocean Sciences Inc., Stuart, FL

3:20 p.m.

Professional Exchange Break

SESSION F

1:15 p.m.

Seagrass Monitoring at Two Different Sites for the Miami Harbor Phase III Federal Channel Expansion Project

Martha Robbart, Alex Schroder, Christina Marmet, Ryan Fura, Kristian Rogers, and William Precht, Dial Cordy and Associates, Inc., Miami, FL

1:30 p.m.

Julia Tuttle Seagrass Mitigation Site – Restoration of a Historic Dredge Hole in Biscayne Bay, Florida

Michael Barnett, P.E., Tetra Tech, Inc., Mobile, AL and Terri Jordan-Sellers, U.S. Army Corps of Engineers, Jacksonville District, FL

1:45 p.m.

Miami Harbor Mitigative Artificial Reef

Jesse Davis, P.E., Tetra Tech, Inc., Boynton Beach, FL and Terri Jordan-Sellers., U.S. Army Corps of Engineers, Jacksonville District, FL

2:00 p.m.

We Built it. Did they come?

Terri Jordan-Sellers, U.S. Army Corps of Engineers, Jacksonville District, FL

2:15 p.m.

Deciphering Between Project-Related and Regional Impacts to Coral Reef Communities Near the Miami Harbor Dredging Project – The Science Behind the Story

William Precht, Brooke Gintert, Jason Croop, Ryan Fura, Lindsey Precht, Kristian Rogers, Alex Schroeder, M. Strueben, and Martha Robbart, Dial Cordy and Associates, Inc., Miami, FL and Terri Jordan-Sellers, U.S. Army Corps of Engineers, Jacksonville District, FL

2:35 p.m.

The Impacts of Dredging on Reefs: Lessons from the Port of Miami Expansion

Rachel Silverstein, Ph.D., Miami Waterkeeper, Miami, FL

3:00 p.m.

Discussion

3:20 p.m.

Professional Exchange Break

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CONCURRENT SESSIONS

3:50 p.m. to 5:20 p.m.

SESSION G

3:50 p.m.

Comparisons of Florida Department of Environmental Protection (FDEP) and Federal Emergency Management Agency (FEMA) 100-yr (1% annual chance) Coastal Water Levels

Christopher Bender, Ph.D., P.E. and William Miller, Ph.D., P.E., Taylor Engineering, Inc., Jacksonville, FL and Ashley Kauppila, P.E., Taylor Engineering, Inc., Charlottesville, VA

4:15 p.m.

Nearshore Morphology Response to Hurricane
Matthew

Irene Watts, George Maul, Ph.D., and Gary Zarillo, Ph.D., P.G., Department of Ocean Engineering and Sciences, Florida Institute of Technology, Melbourne, FL

4:40 p.m.

Numerical Simulations of Morphological Changes in Barrier Islands and Inlets Induced by Storm Surges and Waves

Yan Ding, Ph.D., Coastal Hydraulics Laboratory, U.S. Army Engineer Research and Development Center, Vicksburg, MS

5:05 p.m.

Morphological Modeling of Inlets and Adjacent Shorelines on Engineering Timescales: Challenges and Model Improvements based on Recent Studies on the West Coast of Florida and North Carolina

Lindino Benedet, Joao Dobrochinski, Morjana Signorin, and Thomas Pierro, P.E., CB&I, Boca Raton, FL

5:30 p.m.

Adjourn

SESSION H

3:50 p.m.

Development of a Decision Support Tool to Reduce Sea Turtle Dredging Entrainment Risk

Douglas Piatkowski, Bureau of Ocean Energy Management, Headquarters, Department of the Interior, Sterling, VA

4:15 p.m.

Sea Turtle Relocation Trawling: Satellite-tags Providing New Data for the Gulf of Mexico

Kristen Hart, Ph.D., Margaret Lamont, Ph.D., Michael Cherkiss, Autumn Iverson, Andrew Crowder, Devon Nemire-Pepe, U.S. Geological Survey, Davie and Gainesville, FL and Jessica Mallindine and Michael Miner, Ph.D., P.G., Bureau of Ocean Energy Management Headquarters, Department of the Interior, New Orleans, LA

4:40 p.m.

The New Age of Sea Turtle Permit-Compliance Monitoring: Using Laser-Sighted GPS to Enhance Coastal Lighting Evaluations

Joseph Scarola, Ecological Associates, Inc., Jensen Beach, FL

5:05 p.m.

Advances in Coastal Mapping and Modeling for the Florida Beaches Habitat Conservation Plan (FBHCP)

Jennifer McGee, Ph.D., Florida Fish and Wildlife Conservation Commission, Tallahassee, FL, Amy Knight, Florida National Area Inventory, Tallahassee, FL, and Michael Flaxman, Ph.D., GeoDesign Technologies, Inc., San Francisco, CA

5:30 p.m.

Adjourn

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Friday, February 10, 2017

CLOSING GENERAL SESSION

8:00 a.m. to 12:15 p.m.

8:00 a.m.

Shoreline Change in Response to Sea Level Rise on Florida's Panhandle Coast

James Houston, Ph.D., U.S. Army Engineer Research and Development Center, Vicksburg, MS

8:25 a.m.

Update on NMFS Southeast Regional Office's Endangered Species Action Section 7 Consultations

**Rachel Sweeney, National Oceanic and Atmospheric Administration, National Marine Fisheries Service
Southeast Regional Office, St. Petersburg, FL**

8:50 a.m.

Beach and Barrier Island Restoration Project – Dauphin Island, Alabama

Scott Douglass, Ph.D., South Coast Engineers, Fairhope, AL

9:15 a.m.

The “Biggest,” the “Baddest,” and the “Bestest” – Coastal Restoration Cajun Style

Michael Poff, P.E., Coastal Engineering Consultants, Inc., Naples, FL

9:40 a.m.

Harbor Town Golf Links 18th Green Shoreline Stabilization and Marsh Restoration Project

Christopher Creed, P.E., Olsen Associates, Inc., Jacksonville, FL

10:05 a.m.

Professional Exchange Break

10:35 a.m.

Fast Tracking the Martin County Bathtub Beach Dune Project

Robert Barron, Coastal Management and Consulting, Coastal Growers, Inc., Boynton Beach, FL

11:00 a.m.

Long Term Success and Future Approach of the Captiva and Sanibel Islands Beach Renourishment Program

**Thomas Pierro, P.E., Michelle Pfeiffer, P.E., and Stephen Keehn, P.E., CB&I, Boca Raton, FL and Kathleen
Rooker, Captiva Erosion Prevention District, Captiva, FL**

11:25 a.m.

Which Way Do We Go? Regional Sediment Management and Improved Inlet Management

**John Duchock, P.E., Town of Jupiter Island, FL and Michael Jenkins, Ph.D., P.E., Applied Technology and
Management, Inc., West Palm Beach, FL**

11:50 a.m.

Chula Vista Bayfront Sea Level Rise Analysis & Emergency Shoreline Stabilization

**Bryan Flynn, P.E., Robert Battalio, P.E., Nick Garrity, P.E., and Lindsey Sheehan, P.E., Environmental Science
Associates, Tampa, FL and Linda Scott, Port of San Diego, CA**

12:15 p.m.

Conference Adjourns

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