

National Conference on Beach Preservation Technology
February 3-5, 2021
Embassy Suites by Hilton • St. Augustine Beach, Florida
DRAFT PROGRAM

Wednesday, February 3

OPENING GENERAL SESSION

1:00 p.m. to 5:30 p.m.

1:00 p.m.

Welcome from Henry Dean, St. Johns County District 5, St. Augustine, FL

1:10 p.m.

Performance and Design Considerations of Historic and New-Start Shore Protection Projects in St. Johns County
Stephen Hammond, E.I., St. Johns County, FL

1:35 p.m.

A Tale of Two Sand Sources: Designing New Sand Sources for Beach Restoration in Northeast Florida
Jennifer Coor, Ph.D., P.G., U.S. Army Corps of Engineers, Jacksonville District, FL

1:55 p.m.

Beach Fill Up and Over Coastal Structures in Vilano Beach, FL
Will Reilly, P.E., Geoff Klug, P.E., and Rosie Pinto, E.I., U.S. Army Corps of Engineers, Jacksonville District, FL

2:15 p.m.

Evaluation of Sediment Basins Performance for Navigation Channel Shoaling Reduction and Shoreline Sand Bypassing
Michael Kabiling, Ph.D., P.E., CFM, Taylor Engineering, Inc., Jacksonville, FL

2:35 p.m.

The New Beachfront Data Collection Facility in St. Johns County, Florida: A Collaborative Effort
William Dally, Ph.D., P.E., University of North Florida, Jacksonville, FL, Michael Shirley, Ph.D., Guana Tolomato Matanzas National Estuarine Research Reserve, Ponte Vedra Beach, FL and Rajesh Srinivas, Ph.D., P.E., St. Johns County, FL

2:50 p.m.

UNF Students' Site Investigation for the New Beachfront Data Collection Facility in St. Johns County, Florida
Bryna Bartlett, Camden Dean, Garrett Jones, and William Dally, Ph.D., P.E., University of North Florida, Jacksonville, FL

3:05 p.m.

Professional Exchange Break (25 Minutes)

3:30 p.m.

Coastal Flood Resilience Implementation Plan for Town of Palm Beach, FL: Using Sound Science to Build Resilience into Public Works Planning
Kirk Bosma, P.E. and Nasser Brahim, Robert Hamilton, Woods Hole Group, Bourne, MA and Robert Weber, Town of Palm Beach, FL

3:50 p.m.

FDEP's Beaches, Inlets and Ports Program Update
Gregory Garis, Office of Resilience and Coastal Protection, Florida Department of Environmental Protection, Tallahassee, FL

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4:10 p.m.

Impact of Hurricane Sally on the Northwest Coast of Florida, 2020

**Ralph Clark, P.E., William Weeks, and Jeohusua Lugo, Office of Resilience and Coastal Protection, Florida
Department of Environmental Protection, Tallahassee, FL**

4:30 p.m.

Beach Impacts of Hurricane Sally in the Florida Panhandle and Alabama

Al Browder, Ph.D., P.E., D.CE and Sergio Pena, E.I., Olsen Associates, Jacksonville, FL

4:50 p.m.

St. Andrews State Park Emergency Restoration Project: “Working Together for a Common Goal”

**Michael Dombrowski, P.E. and Katie Hutschenreuter, E.I., MRD Associates, Inc., Destin, FL, Lauren Floyd,
Coastal Protection Engineering, Boca Raton, FL, and Lisa Armbruster, Sustainable Beaches, LLC, Ponte Vedra,
FL**

5:10 p.m.

Case Study: Navarre Beach – Performance during Hurricanes

Hannah Walsh, E.I. and Tem Fontaine, P.E., Coastal Tech-G.E.C., Inc., Vero Beach, FL

5:30 p.m.

Adjourn

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Thursday, February 4

GENERAL SESSION

8:00 a.m. to 12 noon

8:00 a.m.

Historical Changes in the Lake Worth Inlet Flood Shoal

Jannek Cederberg, P.E., Jordon Cheifet, P.E., CFM, and Leonard Barrera Allen, E.I., Cummins Cederberg, Inc., Miami, FL

8:20 a.m.

An Analysis of the Shoaling at The Port of Palm Beach Entrance Channel and Strategies to Control Costs and Impacts to Shipping

Ronald Coddington, P.E., Port of Palm Beach, Riviera Beach, FL

8:40 a.m.

Sand Management at St. Lucie Inlet, Martin County

Stacey Roberts, Atkins, Sarasota, FL, John Ramsey, P.E., Ph.D., Applied Coastal Research and Engineering, Mashpee, MA, and Kathy FitzPatrick, P.E. and Jessica Garland, Martin County, Stuart, FL

9:00 a.m.

4 for 1: How the Coquina Beach FEMA Project Addresses Impacts from Two Storms Alongside a Federal Nourishment and Inlet Maintenance in Manatee County, Florida

Thomas P. Pierro, P.E., D.CE and Michelle Pfeiffer, P.E., Coastal Protection Engineering, Boca Raton, FL and Charlie Hunsicker and Erin Struzzieri, Director of Parks and Natural Resources Department, Manatee County, Bradenton, FL

9:20 a.m.

Louisiana Barrier Island Restoration, A Five Island Grandiose Endeavor During a Pandemic

Michael Poff, P.E., Coastal Engineering Consultants, Inc., Bonita Springs, FL, and Steve Dartez, Brett Borne, P.E., Coastal Engineering Consultants, Inc., Denham Springs, LA

9:40 a.m.

Professional Exchange Break (25 Minutes)

10:05 a.m. – 11:10 a.m.

PANEL: Palm Beach Island Beach Management Agreement (BMA) Five Year Program Review

10:05 a.m.

Programmatic and Regulatory Aspects of the BMA

Lainie Edwards, Ph.D., Office of Resilience and Coastal Protection, Florida Department of Environmental Protection, Tallahassee, FL

10:15 a.m.

Local Stakeholder Perspectives on the BMA

Robert Weber, Town of Palm Beach, FL

10:25 a.m.

Imperiled Species Management Under the BMA

Robbin N. Trindell, Ph.D., Imperiled Species Management, Florida Fish and Wildlife Conservation Commission, Tallahassee, FL

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10:40 a.m.

Regional Monitoring of Hardbottom Resources Under the BMA

Cheryl Miller, Coastal Eco-Group, Deerfield Beach, FL

10:55 a.m.

Physical Monitoring and Adaptive Management Under the BMA

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

11:10 a.m.

Stony Coral Tissue Loss Disease Highlights Need for Novel Restoration Activities

Joanna Walcak, Coral Protection and Restoration Program, Office of Resilience and Coastal Protection, Florida Department of Environmental Protection, Miami, FL, Victoria Barker, National Coral Reef Management Fellow, Florida Keys National Marine Sanctuary/Nova Southeastern University, Key West, FL, Keri O'Neil, Manager, Coral Conservation Program, Center for Conservation, The Florida Aquarium, Apollo Beach, FL, and Jocelyn Karazsia, NOAA National Marine Fisheries Service, West Palm Beach, FL

11:40 a.m.

Structural Stabilization and Rehabilitation of Two Reef Sites Impacted by *M/V Spar Orion* and *M/V Clipper Lasco* Groundings, Fort Lauderdale, Florida

Chris Creed, P.E., Olsen Associates, Jacksonville, FL and Cheryl Miller, Coastal Eco-Group, Deerfield Beach, FL

12:00 p.m.

Lunch (1 Hour)

1:00 p.m.

Model-based Decision Support for Coastal Hazard Evaluation and Adaptation: Coastal ADAPT

Cheryl Hapke, Ph.D., Integral Consulting, St. Petersburg, FL

1:20 p.m.

The Meeting of Two Missions: How Climate Change is Bringing the USACE Coastal Storm Damage Reduction and Ecosystem Restoration Programs Together

Jason Engle, P.E. and Matt Schrader, P.E., Jacksonville District, and Jackie Keiser, P.G., South Atlantic Division, Jacksonville, FL

1:40 p.m.

St. Augustine and STAPLEE: A Tool for Prioritizing Flood Adaptation for Historic Properties

Angela Schedel, Ph.D., P.E., Taylor Engineering, Inc., Jacksonville, FL

2:00 p.m.

Miami-Dade County Coastal Erosion Modeling

Alberto Pisani, P.E. and Marina Blanco-Pape, P.E., Miami-Dade County Department of Regulatory and Economic Resources, Miami, FL, Jesse Davis, P.E. and Hugo Rodriguez, Ph.D., P.E., GHD, Inc., Miami, FL and Nicholas Bragaia, E.I., GHD, Inc., Wellington, FL

2:20 p.m.

Climate Change Resiliency Considerations for Barrier Islands Along Southwest and Central Florida

Mohamed Dabees, Ph.D., P.E., D.CE., Humiston & Moore Engineers, Naples, FL

2:40 p.m.

Coastal Resiliency Initiatives as Flood Risk Management Strategies

Doris Otero, Ph.D., APTIM, Boca Raton, FL

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Professional Exchange Break (25 Minutes)

3:25 p.m.

Drone Technology and Rubble Mound Structures - St. Lucie Inlet South Jetty Case Study

Andrew Wycklendt, P.E., APTIM, Boca Raton, FL and Kathy FitzPatrick, P.E., Martin County, Stuart, FL

3:45 p.m.

Practical Considerations and Responses to Ageing Coastal Structures

Douglas Mann, P.E., D.CE., APTIM, Boca Raton, FL

4:05 p.m.

Dellanera PAS Breakwater

Emily Perron, Patrick Kerr, Ph.D., PE., and Coraggio Maglio, P.E., U.S. Army Corps of Engineers, Galveston District, TX

4:25 p.m.

Physical Model Investigation of Mangrove Effects on Hydrodynamics and Loads on Near-Coast Structures

Tori Tomiczek and Anna Wargula, United States Naval Academy, Annapolis, MD, Sabella Goodwin, U.S. Navy, Dan Cox, Oregon State University, Andrew Kennedy, University of Notre Dame, Pedro Lomonaco, Oregon State University, and Patrick Lynett, University of Southern California

4:45 p.m.

Living Shorelines along the Georgia Coast

Jordan Dodson, Georgia Department of Natural Resources-Coastal Resources Division, Brunswick, GA

5:05 p.m.

Implementing a Resilient Structure to Protect Coastal and Historic Resources at Brunswick Town/Fort Anderson

Phillip Todd, Atlantic Reefmaker, Belville, NC, Jim McKee, Brunswick Town/ Fort Anderson State Historic Site, Southport, NC, and Devon Eulie, Ph.D., University of North Carolina at Wilmington, NC

5:25 p.m.

Adjourn

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Friday, February 5

CLOSING GENERAL SESSION

8:00 a.m. to 12:25 p.m.

8:00 a.m.

Aquares IDGM - Mygeotwin Sand Search Technologies

Shailesh Patel and John Sawyer, ArcDMC Sediment Solutions LLC, Melbourne, FL and Peteralv Brabers, Ph.D., Demco NV, Wintershoven, Belgium

8:20 a.m.

SandSnap: Engaging Citizen Scientists to Crowdsource Beach Grain Size Data

David Young, Ph.D. and Brian McFall, Ph.D., P.E., U.S. Army Engineer Research and Development Center, Duck, NC and Vicksburg, MS

8:40 a.m.

South Atlantic Division Sand Availability and Sand Needs Study (SAD SAND)

Barbara Nist, P.G., U.S. Army Corps of Engineers, Jacksonville District, FL

9:00 a.m.

USACE South Atlantic Division Dredged Material Management Areas Offloading and Sediment Exchange Study

Jonathan Armbruster, P.E., Taylor Engineering, Inc., Jacksonville, FL

9:20 a.m.

Data Collection and Analysis for USACE Coastal Resilience SAND Investigation

Wendy Laurent, E.I. and Angela Schedel, Ph.D., P.E., Taylor Engineering, Philadelphia, PA and Jacksonville, FL

9:40 a.m.

A Meteorite Impact Crater in Coastal Waters off Miami Beach? – Novel Data and Insights

William Aley IV, P.G., Taylor Engineering, Jacksonville, FL

10:00 a.m.

Professional Exchange Break (25 Minutes)

10:25 a.m.

The Economic Value of Beach Nourishment in South Carolina

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

10:45 a.m.

Ocean Fishing Pier Design with Limited Pile Embedment

Jonathan Sigman, P.E., Collins Engineers, Inc., Charleston, SC and Matt Goodrich, P.E., Water Environment Consultants, Mount Pleasant, SC

11:05 a.m.

Coastal Erosion in a Highly Artificial Dynamic Shoreline Environment. A Case Study in Dubai, UAE

Felix Juzgado, M.E., Philip Slagle, P.E., and Dave Canfield, M.E., P.E., Applied Technology and Management, Inc., West Palm Beach, FL, Mount Pleasant, SC, and Dubai, UAE

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Water Quality Modeling Utilizing Conservative Tracers: Robinson Preserve Expansion Case Study, Manatee County, FL

Morjana Signorin, Zhifei Dong, Ph.D., and Doris Otero, Ph.D., APTIM, Boca Raton, FL, and Michelle Pfeiffer, P.E., and Thomas Pierro, P.E., D.CE, Coastal Protection Engineering, Boca Raton, FL

11:45 a.m.

Direct Numerical Simulations of Sediment Transport due to Miniature Along-Shelf Current-Supported Turbidity Currents

Sahar Haddadian, Ph.D., E.I., Cummins Cederberg, Inc., Fort Lauderdale, FL

12:05 p.m.

WEDG, A New Tool in Resilient Waterfront Design

Danielle Irwin and Rebecah Delp, WEDG, Cummins Cederberg, Inc., Tallahassee, FL

12:25 p.m.

Adjourn