

31st Annual National Conference on Beach Preservation Technology
February 7-9, 2018 ♦ Edgewater Beach & Golf Resort ♦ Panama City Beach, Florida
Draft as of 12-21-17

Wednesday, February 7, 2018

Note: Times are listed in Central Standard Time

OPENING SESSION

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

1:00 p.m.

Welcome from Mayor Mike Thomas, City of Panama City Beach

1:10 p.m.

Welcome to Panama City Beach!: Twenty Years and Still Going – Successful Beach Management of the Panama City Beaches, Florida

Lisa Armbruster, Sustainable Beaches, LLC and Stephen Keehn, P.E., Tara Brenner, P.G., P.E., and Thomas Pierro, P.E., APTIM, Boca Raton, FL

1:40 p.m.

The Little City that Could: How Mexico Beach Dredges Up their Projects

Michael Dombrowski, P.E., MRD Associates, Inc., Destin, FL and Kimberly Shoaf, Mexico Beach Community Development Council, Mexico Beach, FL

2:05 p.m.

Storm Impact Modeling Analysis for the Restoration of Gulf State Park, Alabama

Jordon Cheifet, P.E., João Dobrochinski, and Morjana Signorin, APTIM, Boca Raton, FL

2:30 p.m.

Simulations of Hurricane Matthew Water Levels and Waves; Comparisons to Measurements and Examination of Shifted Tracks

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

2:55 p.m.

Professional Exchange Break

3:25 p.m.

Caribbean Impacts from the 2017 Hurricane Season

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

3:50 p.m.

Beach Nourishment on the Florida East Coast

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

4:15 p.m.

NC Beach and Inlet Management Plan: An Evaluation for a Dedicated Beach Nourishment Fund

Mark Pirrello, P.E. and Johnny Martin, P.E., Moffatt & Nichol, Raleigh, NC, Robert Neal, P.E., Moffatt & Nichol, Wilmington, NC, Nicole Elko, Ph.D., Elko Coastal Consulting, Folly Beach, SC, and Chris Dumas, Ph.D., University of North Carolina at Wilmington, Wilmington, NC

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4:40 p.m.

Analysis of Shore Stabilization Alternatives at the Cape Fear River Entrance, N.C. through Application of Delft3D
Steven Howard, P.E., Olsen Associates, Inc., Jacksonville, FL

5:05 p.m.

Smith Island, Maryland: Shore Protection Using Headland Control: Design, Construction and Early Performance
C. Scott Hardaway, Jr., Virginia Institute of Marine Science, College of William and Mary, Gloucester Point, VA
and James Gunn, Coastal Design and Construction, Inc., Gloucester, VA

5:30 p.m.

Adjourn

6:00 p.m.

Welcome Reception

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Thursday, February 8, 2018

CONCURRENT SESSIONS

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

SESSION A

8:00 a.m.

Tools and Technologies for Regional Sediment Management

**Katherine Brutsche, Ph.D. and Linda Lillycrop, Ph.D.,
U.S. Army Engineer Research and Development
Center, Vicksburg, MS and Washington, DC**

8:25 a.m.

**Regional Sediment Management Case Studies of
Successful Implementation Across the Nation**

**Linda Lillycrop, Ph.D. and Katherine Brutsche, Ph.D.,
U.S. Army Engineer Research and Development
Center, Washington, DC and Vicksburg, MS**

8:50 a.m.

**Regional Sediment Management and Beneficial
Use of Dredged Material along the Northern Gulf
Coast**

**Elizabeth Godsey, P.E., Nathan Lovelace, P.E.,
Larry Parson, and Susan Rees, Ph. D., U.S. Army
Corps of Engineers, Mobile District, AL**

9:15 a.m.

**Regional Sediment Strategy for Mobile Bay,
Alabama**

**Elizabeth Godsey, P.E., Larry Parson, Nathan
Lovelace, P.E., Kevin Reine, and Joseph Gailani,
U.S. Army Corps of Engineers, Mobile District, AL**

9:40 a.m.

**St. Lucie County Intracoastal Waterway Regional
Sediment Management**

William Warren, Taylor Engineering, Inc., Destin, FL

10:05 a.m.

Professional Exchange Break

SESSION B

8:00 a.m.

**Interpreting and Implementing BOEM's New
"Marine Management Rule"**

**Paul Knorr, Ph.D., Bureau of Ocean Energy
Management Headquarters, Department of the
Interior, Sterling, VA**

8:25 a.m.

**A Survey of Techniques to Increase Plant and
Animal Diversity in Coastal Dune Restoration**

**Debbie Miller, Ph.D., Mack Thetford, Ph.D.,
Gabriel Campbell, and Ashlynn Smith, University
of Florida, West Florida Research and Education
Center, Milton, FL**

8:50 a.m.

Living Shorelines in the Florida Panhandle

**Duncan Greer, P.E. and Matthew Trammell, P.E.,
Taylor Engineering, Inc., Destin, FL**

9:15 a.m.

**The Florida Beaches Habitat Conservation Plan
(FBHCP), The Final Steps Before Completion**

**Jennifer McGee, Ph.D., Florida Fish and Wildlife
Conservation Commission, Tallahassee, FL**

9:40 a.m.

Walton County NRDA Artificial Reef Program

**Melinda Gates, Environmental Section, Walton
County Public Works Department, Defuniak
Springs, FL, Lauren Floyd and Katy Brown, and
Beau Suthard, P.G., APTIM, Boca Raton and
St. Petersburg, 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.

Impact of Hurricane Irma on the Coast of Florida, 2017

Ralph Clark, P.E., Robert Wang, Ph.D., William Weeks, and Peter Bacopoulos, Division of Water Resource Management, Florida Department of Environmental Protection, Tallahassee, FL

11:00 a.m.

Post-Hurricane Irma Response in Collier County, FL

Gary McAlpin, P.E., Collier County Coastal Zone Management, Naples, FL, and Stephen Keehn, P.E., Tara Brenner, P.G., P.E. and João Dobrochinski, APTIM, Boca Raton, FL

11:25 a.m.

Hurricane Irma Impacts to Southwest Florida (Lee-Charlotte Barriers)

Michael Poff, P.E., Coastal Engineering Consultants, Inc., Naples, FL, Steve Boutelle, Lee County Natural Resources Division, Ft. Myers, FL, Matt Logan, Charlotte County Public Works, Punta Gorda, FL, and Justin McBride, West Coast Inland Navigation District, Venice, FL

11:50 a.m.

Observations of Beach Response to Hurricane Irma along Florida's East and West Coasts

Lindino Benedet, Ph.D. and João Dobrochinski, APTIM, Boca Raton, FL

12:15 p.m.

Luncheon

SESSION D

10:35 a.m.

SLOSH Modeling Using Multiple SLR Scenarios in Bridgeport, Connecticut and Hampton Roads, Virginia

Zhifei Dong, Ph.D. and Quin Robertson, Ph.D., APTIM, Boca Raton, FL and Y. Jeffrey Yang, Ph.D., P.E., Office of Research and Development, US Environmental Protection Agency, Cincinnati, Ohio

11:00 a.m.

Preparing for Sea-Level Rise: Options for Purposeful Adaptation

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

11:25 a.m.

Impacts of Sea Level Rise at the United States Naval Academy

Miranda Kosmides and Nicholas Padgett, U.S. Navy Students, Ocean Engineering Department, U.S. Naval Academy, Annapolis, MD

11:50 a.m.

Hedonic Geospatial Econometric Modeling Applied to Shoreline Protection

Charles Bostater, Jr., Ph.D., Florida Institute of Technology, Melbourne, 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.

Norriego Point Restoration and Recreation Project
Pearce Barrett III, P.E., Division of Water
Restoration Assistance, Florida Department of
Environmental Protection, Tallahassee, FL

1:40 p.m.

**Beach Management in Okaloosa and Walton
Counties**

Matthew Trammell, P.E. and Duncan Greer, P.E.,
Taylor Engineering, Inc., Destin, FL

2:05 p.m.

Western Destin Beach Restoration Project

Matthew Trammell, P.E. and Duncan Greer, P.E.,
Taylor Engineering, Inc., Destin, FL

2:30 p.m.

**Case Study: Rebuilding a Top Community Beach,
“Best of the Best” Restored Beach**

Tem Fontaine, P.E., Coastal Tech-G.E.C., Inc., Vero
Beach, FL

2:55 p.m.

**Coordination of Dredged Material Disposal
Activities Associated with the Pensacola Harbor
Lower Federal Navigation Channel**

Larry Parson, Elizabeth Godsey, P.E., and Nathan
Lovelace, P.E., U.S. Army Corps of Engineers,
Mobile District, AL

3:20 p.m.

Professional Exchange Break

SESSION F

1:15 p.m.

**Aligning Channel Dredging of Big Carlos Pass to
Improve Navigation and Sand Management**

Mohamed Dabees, Ph.D., P.E. and Brett Moore,
P.E., Humiston & Moore Engineers, Naples, FL and
Justin McBride, West Coast Inland Navigation
District, Venice, FL

1:40 p.m.

Inlet Stabilization at Stump Pass, Charlotte County, FL
Vadim Alymov, Ph.D. and Michael Poff, P.E., Coastal
Engineering Consultants, Inc., Naples, FL

2:05 p.m.

Defining Inlet Hazard Areas

Ken Richardson, North Carolina Division of Coastal
Management, Morehead City, NC

2:30 p.m.

**Delaware Surf Zone Injuries and Associated
Environmental Conditions**

Katie Hutschenreuter, MRD Associates, Inc.,
Destin, FL, Jack Puleo, Ph.D., Center for Applied
Coastal Research, University of Delaware, Newark,
DE, Paul Cowan and Michelle Arford-Granholm,
Beebe Healthcare, Lewes, DE, Wendy Carey, Ph.D.,
Delaware Sea Grant College Program, University of
Delaware, Lewes, DE, and Kimberly K. McKenna,
P.G., Division of Watershed Stewardship, Delaware
Department of Natural Resources and
Environmental Control, Dover, DE

2:55 p.m.

**Protecting the “Lost Colony” of Roanoke with
Innovative Shoreline Stabilization Solutions**

Matthew Starr, P.G. and Jeffrey Tabar, P.E., Stantec
Consulting Services, Naples, FL

3:20 p.m.

Professional Exchange Break

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3:50 p.m. to 5:30 p.m.

SESSION G

3:50 p.m.

RESTORE-ing the Gulf Coast: Implementing RESTORE Act and NRDA Projects in Coastal Louisiana
Whitney Thompson, P.E., APTIM, Boca Raton, FL

4:15 p.m.

Rollover Pass Closure Project, Galveston County, Texas
Michael Trudnak, P.E., Taylor Engineering, Inc., Jacksonville, FL

4:40 p.m.

Mississippi Coastal Improvements Program Comprehensive Barrier Island Restoration
Justin McDonald, Elizabeth Godsey, P.E., Joseph Black, Jackie Wittmann, Nathan Lovelace, P.E., Thomas Smith and Susan Rees, Ph.D., U.S. Army Corps of Engineers, Mobile District, AL

5:05 p.m.

Baseline Conditions Assessment for the Mississippi Coastal Improvements Program, Comprehensive Barrier Island Restoration Project in Mississippi, USA
Brian Zettle, Elizabeth Godsey, P.E., Justin McDonald, and Susan Rees, Ph.D., U.S. Army Corps of Engineers, Mobile District, AL, Michelle Meyers, U.S. Geological Survey, New Orleans, LA, Soupy Dalyander, Ph.D., U.S. Geological Survey, St. Petersburg, FL, and Nicholas Enwright, U.S. Geological Survey, Lafayette, LA

5:30 p.m.

Adjourn

SESSION H

3:50 p.m.

The City of Pompano Beach Fishing Pier Replacement Project
Douglas Mann, P.E., APTIM, Boca Raton, FL

4:15 p.m.

Beach Scraping; Benefits of an Interim Shore Protection Measure
Zachary Bedell and Christopher Creed, P.E., Olsen Associates, Inc., Jacksonville, FL and Scott Liggett, P.E., Town of Hilton Head Island, S.C.

4:40 p.m.

Seasonality of Alongshore Sediment Transport Estimated from Surveys of Bathymetric Changing Under a Monsoon Climate
Jeseon Yoo, Ph.D., Korea Institute of Ocean Science and Technology, Korea, Bas Huisman, Wiebe de Boer and Dirk-Jan Walstra, Ph.D., Deltares and Delft University of Technology, Delft, The Netherlands, and In-Ho Kim, Kangwon National University, Korea

5:05 p.m.

Repetitive Nourishments – Observed Performance vs. Predicted Renourishment Intervals
Peter Seidle, P.E., Applied Technology and Management, Inc., West Palm Beach, FL

5:30 p.m.

Adjourn

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Friday, February 9

CLOSING GENERAL SESSION

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

8:00 a.m.

Our Experiences with UAVs in Coastal Monitoring at Gator Lake
Joseph Morrow, MRD Associates, Inc., Destin, FL

8:25 a.m.

Evaluating the Use of UAVs for Rapid Assessment of Storm-Induced Volumetric Change on Singer Island
Andy Studt and Chris Carstens, Palm Beach County Department of Environmental Resources Management, West Palm Beach, FL

8:50 a.m.

Practical Applications of Drones (Unmanned Aerial Vehicles – UAVs) for Aerial Mapping of Beach and Nearshore Habitats and Comparison to Full-Scale Manned Aircraft Using GIS-Based Hardbottom Classification
Rex “Chip” Baumberger, Brent Gore, Dustin Myers, CSA Ocean Sciences Inc., Stuart, FL

9:15 a.m.

Coastal Field Methods 101: What to do When Data Doesn’t Exist
Angela Schedel, Ph.D., P.E., Commander U.S. Navy, Ocean Engineering Department, U.S. Naval Academy, Annapolis, MD

9:40 a.m.

Living Beaches: Integrating the Biological Function of Beaches into Beach Management
Melissa Chaplin, U.S. Fish and Wildlife Service, South Carolina Field Office, Charleston, SC, Denise Sanger, Andrew Tweel, Stacie Crowe, and Marty Levisen, South Carolina Department of Natural Resources, Marine Resources Research Institute, Charleston, SC and James Fraser, Daniel Catlin, Daniel Gibson, Kelsi Hunt, Meryl Friedrich, and Chelsea Weithman, Department of Fisheries and Wildlife Sciences, Virginia Tech, Blacksburg, VA

10:05 a.m. Professional Exchange Break

10:35 a.m.

High Fines Content Beach Placement Project Case Studies in Florida and Texas, and an Empirical Formula to Estimate Borrow Sediments Ultimate Beach Capability
Coraggio Maglio, P.E., U.S. Army Corps of Engineers, Galveston District, TX

11:00 a.m.

Changes in Beach Profile and Grain Size after Beach Renourishment (Brevard County, Florida)
Kevin Bodge, Ph.D., P.E. and Krista Egan, Olsen Associates, Inc., Jacksonville, FL and Michael McGarry, Brevard County Natural Resources Management Department, Viera, FL

11:25 a.m.

Use of a Sand Residence Time Concept for Coastal Management
Michael Jenkins, Ph.D., P.E., Applied Technology and Management, Inc., West Palm Beach, FL

11:50 a.m.

Post-Storm Reconstruction Using Resilient Structure in Coastal Areas
Vanessa Benzecry and Antonio Nanni, Department of Civil, Architectural and Environmental Engineering, University of Miami, Coral Gables, FL and Steven Nolan, Florida Department of Transportation, Tallahassee, FL

12:15 p.m. Conference Adjourns

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