

**National Conference on Beach Preservation Technology
February 8-10, 2012 * Hutchinson Island Marriott * Stuart, Florida**

Wednesday Afternoon, February 8, 2012

OPENING SESSION

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

1:00 p.m.

Welcome

1:10 p.m.

St. Lucie Inlet Sediment Management: Sustaining the Beaches of Martin County

Don Donaldson, P.E., Martin County, FL and John Ramsey, P.E., Applied Coastal Research and Engineering, Inc., Mashpee, MA

1:35 p.m.

The Realities of Future Sand Sources for Southeast Florida Beaches

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

2:00 p.m.

Evaluation of Long-Term Project Alternatives: Boca Raton, FL

Michael Jenkins, Ph.D., P.E., Applied Technology and Management, Inc., West Palm Beach, FL and Jennifer Bistyga, City of Boca Raton, FL

2:25 p.m.

Beach to Beach Truck-Haul Sand Bypassing

Will Reilly, P.E. and Kevin Bodge, Ph.D., P.E., Olsen Associates, Inc., Jacksonville, FL

2:50 p.m.

Application of the Hypercube Method for the Efficient Simulation of Long-Term, Nearshore Wave Records: Case Study and Verification Using Observed Wave Data Near the Mississippi/Alabama Coast

Christopher Day, P.E., Coastal Planning & Engineering, Inc., Boca Raton, FL and Joao Dobrochinski, Coastal Planning & Engineering, Inc., Brasil

3:15 p.m.

Professional Exchange Break

3:45 p.m.

Comparison of Comprehensive Tide Gauge and Satellite Data Sets

Robert Dean, Ph.D., P.E., Department of Civil and Coastal Engineering, University of Florida, Gainesville, FL and James Houston, Ph.D., U.S. Army Engineer Research and Development Center, Vicksburg, MS

4:10 p.m.

Sea Level Rise Acceleration in the United States

Asbury (Abby) Sallenger, Ph.D., Kara Doran, and Peter Howd, Ph.D., U.S. Geological Survey, St. Petersburg, FL

4:35 p.m.

Guidance on Sea Level Rise by 2100, Ice Melt – the Big Unknown

James Houston, Ph.D., U.S. Army Engineer Research and Development Center, Vicksburg, MS and Robert Dean, Ph.D., P.E., Department of Civil and Coastal Engineering, University of Florida, Gainesville, FL

5:00 p.m. **Panel Discussion and Audience Participation**

5:10 p.m. **Adjourn**

6:30 p.m. Welcome Reception

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Thursday, February 9, 2012

CONCURRENT SESSIONS

8:30 a.m. to 9:45 a.m.

SESSION A

8:30 a.m.

**East Rockaway Inlet to Rockaway Inlet, NY,
Collaboration Framework Development**

Lynn Bocamazo, Stephen Couch, Diane Rahoy,
Christina Rasmussen, and John Beldin-Quinones,
U.S. Army Corps of Engineers, New York District, NY

8:55 a.m.

**Regional Sediment Management at East
Rockaway Inlet, New York, Utilizing the USACE
Coastal Modeling System**

David Yang, Diane Rahoy, Chris Rasmussen,
Frank Buoniauto, and Donald Cresitello, U.S.
Army Corps of Engineers, New York District, NY
and William Grosskopf, P.E., Offshore & Coastal
Technologies, Inc., Chadds Ford, PA

9:20 a.m.

**Nantasket Beach, Hull, MA – Seawall Impacts
on Beach Erosion**

John Winkelman III, U.S. Army Corps of
Engineers, New England District, Concord, MA

9:45 a.m.

Professional Exchange Break

SESSION B

8:30 a.m.

**Evaluation of Erosion Control Measures Near
Tidal Inlets in Southwest and Central Florida**

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

8:55 a.m.

**Longboat Pass Inlet Management Study
Alternatives, Development and Delft3D
Modeling Analysis**

Thomas Pierro, P.E., Thomas Campbell, P.E.,
Richard Spadoni, Douglas Mann, P.E., and
Christopher Day, P.E., Coastal Planning &
Engineering, Inc., Boca Raton, FL and Lindino
Benedet and Joao Dobrochinski, Coastal Planning
& Engineering, Inc., Brasil

9:20 a.m.

**Modeling of South Marco Island Erosion
Control Alternatives**

Gary McAlpin, P.E., Collier County, FL, and
Michael Poff, P.E. and Vadim Alymov, Ph.D.,
Coastal Engineering Consultants, Inc., Naples, FL

9:45 a.m.

Professional Exchange Break

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CONCURRENT SESSIONS

10:15 a.m. to 12 noon

SESSION C

10:15 a.m.

Mapping Benthic Habitats in Remote Areas Using Satellite Imagery: An Example from the Marquesas and Quicksands Region of the Florida Keys

Stacy Prekel, Tara Devine, Quin Robertson, Ph.D., and Heather Vollmer, Coastal Planning & Engineering, Inc., Boca Raton, FL

10:40 a.m.

Hardbottom Impact Assessment for Beach Nourishment Projects in Florida: Previous Methods, Appropriate Standards

Tem Fontaine, P.E. and Kimberly Colstad, Coastal Technology Corp., Vero Beach, FL

11:05 a.m.

Coral Transplantation as a Planning and Cost Factor for Storm Damage Reduction Projects

Terri Jordan-Sellers, U.S. Army Corps of Engineers, Jacksonville District, FL, Craig Kruempel, Tetra Tech, Inc., Boynton Beach, FL, Martha Robbart, Dial Cordy and Associates, Inc., Hollywood, FL, and Harold Hudson, Ph.D., Reef Tech, Inc., Miami, FL

11:30 a.m.

Challenges in Determining Impacts and Appropriate Mitigation from Beach Nourishment to Nearshore Hardbottom and Coral Reef Communities

Lindsay Aylesworth, Coastal Planning & Engineering, Inc., Boca Raton, FL

12:00 p.m.

Luncheon

SESSION D

10:15 a.m.

Simulations of the Wave Field Around a Submerged Breakwater in a Numerical Tank

J. Mun and F.Y. Testik, Ph.D., Clemson University, Clemson, SC

10:40 a.m.

Oblique Detached Breakwaters for Shore Protection and Multipurpose Beach-Recreation

William Dally, Ph.D., P.E., Surfbreak Engineering Sciences, Inc., Orlando, FL and Atkins North America, Orlando, FL

11:05 a.m.

A Coastal Storm Surge Modeling Capability for the U.S. Mid-Atlantic Coast

Jeffrey Hanson, Michael Forte, and Heidi Wadman, U.S. Army Corps of Engineers, Field Research Facility, Kitty Hawk, NC, Brian Blanton, Renaissance Computing Institute, Chapel Hill, NC, and Hugh Roberts, ARCADIS U.S., Inc., Boulder, CO

11:30 a.m.

Revised Coastal Inundation and Flooding for Georgia and Northeast Florida

Christopher Bender, Ph.D., P.E. and William Miller, Ph.D., P.E., Taylor Engineering, Inc., Jacksonville, FL, and Ashley Naimaster, Taylor Engineering, Inc., West Palm Beach, FL

12:00 p.m.

Luncheon

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CONCURRENT SESSIONS

1:15 p.m. to 2:55 p.m.

SESSION E

1:15 p.m.

Coastal 'Bathymetric' Surveys That Span the Water Line

Todd Mitchell, Fugro Consultants, Inc.,
Ventura, CA

1:40 p.m.

Analysis of Spatial and Temporal Variations in Beach and Near-shore Bathymetry Profiles and Sediment Grain Size Distribution of Selected Beaches in Brevard County After Beach Nourishment in 2010

John Hearin, Department of Marine and Environmental Systems, Florida Institute of Technology, Melbourne, FL

2:05 p.m.

A Methodology for Statistical Estimation of Response to Risk of Sequential Threshold Systems

Joseph Letter, Jr., Ph.D., P.E., U.S. Army Engineer Research and Development Center, Sebastian, FL

2:30 p.m.

Application of Nearshore Synthetic Wave Records to Regional Sediment Management in Florida

Muthu Narayanaswamy, Atkins North America, Houston, TX and William Dally, Ph.D., P.E., Surfbreak Engineering Sciences, Inc., Orlando, FL and Atkins North America, Orlando, FL

2:55 p.m.

Professional Exchange Break

SESSION F

1:15 p.m.

Examining Different Beach Nourishment Designs to Understand Post-Restoration Changes in Marine Turtle Nesting Success

Allison Hays and Llewellyn Ehrhart, Ph.D.,
University of Central Florida, Orlando, FL

1:40 p.m.

Testing an Alternative Template to Improve the Performance of Built Beaches for Sea Turtles

Robert Ernest and R. Erik Martin, Ecological Associates, Inc., Jensen Beach, FL, David Stites, Ph.D., Taylor Engineering, Inc., Jacksonville, FL, and Kathy Fitzpatrick, P.E., Martin County, FL

2:05 p.m.

Engineered and Natural Dunes: A Comparison of Abiotic Characteristics and Hatching Success of Green Turtle (*Chelonia mydas*) Nests on an East-Central Florida Beach

Martha Barton and Llewellyn Ehrhart, Ph.D.,
University of Central Florida, Orlando, FL

2:30 p.m.

Beach Restoration and its Effects on Loggerhead Sea Turtle Hatchling Fitness

Mario Mota, Ph.D., University of Central Florida, Orlando, FL

2:55 p.m.

Professional Exchange Break

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CONCURRENT SESSIONS

3:25 p.m. to 5:05 p.m.

SESSION G

3:25 p.m.

Renourishment of the South Amelia Island Shore Stabilization Project, Nassau County, FL

Albert Browder, Ph.D., P.E., Erik Olsen, P.E., and William Hobensack, P.E., Olsen Associates, Inc., Jacksonville, FL

3:50 p.m.

Lido Key Beach Renourishment Project: 2-Yr Post-Construction Monitoring Results and Comparison to Modeling Projections

Michelle Rees, Thomas Pierro, P.E., and Richard Spadoni, Coastal Planning & Engineering, Inc., Boca Raton, FL

4:15 p.m.

Submerged Bar Beach Renourishment

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

4:40 p.m.

Side-by-Side-by-Side Comparison of Beach Restoration, Dune Restoration, and Natural Beach Response to Hurricane Irene, Summer Haven, St. Johns County, Florida

Michael Trudnak, P.E., Taylor Engineering, Inc., Jacksonville, FL, and Andrew Ames, P.E., St. Johns County, FL

5:05 p.m.

Adjourn

SESSION H

3:25 p.m.

USACE National Coastal Mapping Program

Chris Macon and Jennifer Wozencraft, Joint Airborne Lidar Bathymetry Technical Center of Expertise, U.S. Army Engineer Research and Development Center, Kiln, MS

3:50 p.m.

Assessment of Coastal Morphological Change

Lauren Dunkin, Joint Airborne Lidar Bathymetry Technical Center of Expertise, U.S. Army Engineer Research and Development Center, Kiln, MS

4:15 p.m.

Airborne Remote Sensing for Coastal Environmental Applications

Molly Reif, Joint Airborne Lidar Bathymetry Technical Center of Expertise, U.S. Army Engineer Research and Development Center, Kiln, MS

4:40 p.m.

USACE LiDAR-Derived Volume Change Maps for the State of Florida

Quin Robertson, Ph.D., Tara Devine, and Jeffrey Andrews, P.S.M., Coastal Planning & Engineering, Inc., Boca Raton, FL and Jennifer Wozencraft, Joint Airborne Lidar Bathymetry Technical Center of Expertise, U.S. Army Engineer Research and Development Center, Kiln, MS

5:05 p.m.

Adjourn

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Friday, February 10, 2012

CLOSING GENERAL SESSION

8:10 a.m. to 12 noon

8:10 a.m.

Coastal Processes Analysis Using Physical and Modeling Results for Panama City Beaches, Florida

Stephen Keehn, P.E., Lindino Benedet, Nicole Sharp, Luana Taiani, and Lucas Silveira, Coastal Planning & Engineering, Inc., Boca Raton, FL

8:35 a.m.

U.S. Army Corps of Engineers Mississippi Coastal Improvements Program Comprehensive Barrier Island Restoration Plan

Justin McDonald, P.E., U.S. Army Corps of Engineers, Mobile District, AL

9:00 a.m.

Design Premises for the Charlotte County Erosion Control Project

Joanne Vernon, P.E. and Dan Quick, P.E., Charlotte County, FL, Michael Poff, P.E. and Vadim Alymov, Ph.D., Coastal Engineering Consultants, Inc., Naples, FL, and Cliff Truitt, Ph.D., P.E., Coastal Technology Corp., Sarasota, FL

9:25 a.m.

Working Towards More Cost Effective Florida Coastal Protection Projects

Bill Hanson, Great Lakes Dredge and Dock Co., Oak Brook, IL

9:50 a.m.

Professional Exchange Break

10:20 a.m.

Florida Upland Sand Resources for Broward County Beaches

Tara Devine, Quin Robertson, Ph.D., and Melany Larenas, P.G., Coastal Planning & Engineering, Inc., Boca Raton, FL and Will Reilly, P.E., Olsen Associates, Inc., Jacksonville, FL

10:45 a.m.

Using MoDaC® (Mobile Data Collection) to Collect Finished Floor Elevation Data

Tim Cawood, P.L.S., McKim & Creed, Wilmington, NC

11:10 a.m.

Louisiana Surficial Sediment Distribution Mapping

Melany Larenas, P.G., Beth Forrest, Ph.D., Kristina Dennis, and Tara Devine, Coastal Planning & Engineering, Inc., Boca Raton, FL and Syed Khalil, Ph.D., Louisiana Coastal Protection and Restoration Authority, Baton Rouge, LA

11:35 a.m.

Bio-Engineered Oyster Reef Demonstration Project, Cameron Parish, LA

Scott Hicks, P.E., Coast & Harbor Engineering, Inc., North Palm Beach, FL, Josh Carter, P.E., Coast & Harbor Engineering, Inc., Austin, TX, and Kenneth Bahlinger and Tye Fitzgerald, Louisiana Office of Coastal Protection and Restoration, Baton Rouge, LA

12:00 noon

Conference Adjourns