



23rd Annual National Conference on Beach Preservation Technology

February 3-5, 2010

Crowne Plaza Melbourne Oceanfront Resort

“America’s largest annual conference on beach preservation technology!”



CONFERENCE HIGHLIGHTS

The Conference Planning Committee received an outstanding set of abstracts for 2010 that includes a broad range of topics you won't want to miss – constructed projects, inlets, environmental issues, coastal modeling, use of structures, surveys, and much more.

In addition to enjoying our beachfront destination, you may also have the opportunity to take in construction of Brevard's South Reach nourishment project and see a shuttle launch from Cape Canaveral (Endeavor is tentatively scheduled to launch on February 4th).



Just a select sampling of information-packed presentations to look forward to:

- Lessons Learned from Truck Hauling Over a Million Cubic Yards of Sand for Emergency Dune Projects
- A Structures Session led by Dr. Robert Dean, University of Florida
- Sea Turtle Nesting and Small-Scale Beach Restoration Projects
- Design and Performance of Headland Bays
- How Oil and Gas Exploration, Pipelines, and Infrastructure Could Further Constrain Limited Offshore Sand Resources
- Plans for Coastal Engineering Certification

CONFERENCE OBJECTIVES

- To present the latest in beach preservation technology, research, and real-world practice.
- To provide a technological transfer from the scientific and engineering community to government officials who make the decisions on coastal projects and policies.



Cocoa Beach Pier
Photo Courtesy of Brevard County Natural Resources Management Office

EXHIBIT INFORMATION

The National Conference on Beach Preservation Technology offers an excellent opportunity for exhibitors to demonstrate their services and products to key decision-makers and user groups.

For detailed information including reduced rates and sponsor/exhibitor packages, please contact Teri Besse, Conference Manager, FSBPA, 850-906-9227 or teri@fsbpa.com



Isabel Bush - daughter of Virginia Barker, Brevard County Natural Resources, and Mark Bush

Wednesday Afternoon, February 3, 2010

OPENING SESSION

1:00 p.m. to 5:15 p.m.

WHO SHOULD ATTEND?

Public and Private Sector Engineers

Coastal Managers

U.S. Army Corps of Engineers

Coastal Geologists

City and County Engineers

Natural Resource and Environmental
Protection Agencies

Marine Biologists and Scientists

City and County Managers

Academic Researchers

Public Works Directors

Environmental Scientists

Coastal Surveyors

Legislators and Legislative Staff

City and County Commissioners

Local and Regional Planners

Tourist Development Councils

Hotel and Resort Executives

Coastal Development Interests

Coastal Property Owners

1:00 p.m.

Welcome

1:10 p.m.

How Oil and Gas Exploration, Supply Lines, and Infrastructure Could Further Constrain Limited Offshore Sand Resources

Thomas Campbell, P.E., Coastal Planning & Engineering, Inc., Boca Raton, FL

1:30 p.m.

Offshore Oil Exploration: Probabilistic Simulations of Plume Dispersion and Potential Impacts on Beaches

Lindino Benedet, M.S., Coastal Planning & Engineering, Inc., Boca Raton, FL and Brasil, Thomas P. Pierro, P.E. and Thomas Campbell, P.E., Coastal Planning & Engineering, Inc., Boca Raton, FL, and Rafael Bonanata, Coastal Planning & Engineering, Inc., Brasil

1:50 p.m.

Boutique Beach Restoration: Sandals Royal Bahamian Resort

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

2:15 p.m.

Things to Learn from Truck Hauling Over 1,000,000 Cubic Yards of Sand During Emergency Dune/Beach Projects in Brevard County

Mike McGarry, Brevard County Natural Resources Management Office, Viera, FL

2:50 p.m.

Professional Exchange Break

Structures SESSION

3:25 p.m.

Performance Characteristics of Groins and Detached Breakwaters - Overview and Moderator

Robert Dean, Ph.D., P.E., Department of Civil and Coastal Engineering, University of Florida, Gainesville, FL

3:35 p.m.

Potential Application of Shore-Stabilizing Structures along an Open-Coast Shoreline

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

4:05 p.m.

Upham Beach Stabilization Project: Boussinesq Wave Modeling to Address Concerns of Local Surfing Community

Thomas P. Pierro, P.E., Coastal Planning & Engineering, Inc., Boca Raton, FL and Lindino Benedet, M.S. and Rodrigo Barletta, Ph.D., Coastal Planning & Engineering, Inc., Brasil

4:35 p.m.

Use of Beach Erosion Control Structures In a Statewide Beach Management Program

Robert Brantly, P.E. and Michael Barnett, P.E., Florida Department of Environmental Protection, Tallahassee, FL

5:05 p.m.

Panel Discussion and Audience Participation

5:15 p.m.

Adjourn

6:30 p.m.

Welcome Reception

Thursday, February 4, 2010

CONCURRENT SESSIONS

8:30 a.m. to 10:10 a.m.

SESSION A - Inlets

8:30 a.m.

Evaluation of Gordon Pass Inlet Evolution and Management Practices

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

8:55 a.m.

Bay Tidal Monitoring for Evaluation of Inlet Maintenance Requirements

Kenneth K. Humiston, P.E., Brett D. Moore, P.E., Mohamed A. Dabees, Ph.D., P.E., and Joseph T. Foster, Humiston & Moore Engineers, Naples, FL

9:20 a.m.

With Our Eyes Wide Open: Lessons Learned From Opening Blind Pass

Kris Thoenke, Ph.D. and Michael Poff, P.E., Coastal Engineering Consultants, Inc., Naples, FL and Robert Neal, P.E. and Steve Boutelle, Lee County Natural Resources Division, Ft. Myers, FL

9:45 a.m.

Understanding Increased Navigation Channel Shoaling, Shark River Inlet, New Jersey; Ebb-Delta Development Where Before There Was None

Tanya M. Beck and Nicholas C. Kraus, Ph.D., Coastal and Hydraulics Laboratory, Engineer Research and Development Center, Vicksburg, MS and Edward Wrocenski, U.S. Army Corps of Engineers, New York District, NY

10:10 a.m.

Professional Exchange Break

SESSION B - Modeling

8:30 a.m.

Coastal Wave Energy Dissipation: Observations and Modeling

Jeffrey L. Hanson and Kent K. Hathaway, U.S. Army Corps of Engineers, Field Research Facility, Kitty Hawk, NC and Harry C. Friebel, U.S. Army Corps of Engineers, Philadelphia District, PA

8:55 a.m.

Solving the Problem of Curved Coastlines in an Engineering Coastline Model

D.J.R. Walstra, Deltares – Delft Hydraulics and Delft University of Technology, Delft, The Netherlands and J.H. de Vroeg and A.P. Luijendijk, Deltares – Delft Hydraulics, Delft, The Netherlands

9:20 a.m.

A Monte Carlo Simulation Model for Beach Fill Optimization

Chuck Mesa, U.S. Army Corps of Engineers, Los Angeles, CA

9:45 a.m.

“Gencade:” Replacing the GENESIS and Cascade Models in Combining Project Planning and Design in a Regional Sediment Management Framework

Nicholas C. Kraus, Ph.D., Coastal and Hydraulics Laboratory, Engineer Research and Development Center, Vicksburg, MS, Hans Hanson and Magnus Larson, Lund University, Sweden, Kenneth J. Connell, Golder Engineering, Seattle, WA, Alan K. Zundel, Aquaveo, Provo, UT, and Sophie Munger, ARA, Vicksburg, MS

10:10 a.m.

Professional Exchange Break

Thursday, February 4, 2010

CONCURRENT SESSIONS

10:45 a.m. to 12 noon

SESSION C - Bays

10:45 a.m.

Classification of Fetch Limited Dunes in the Lower Chesapeake Bay: Evidence of Morphologic Equilibrium

Lyle Varnell, C. Scott Hardaway, Jr., and Donna Milligan, Virginia Institute of Marine Science, College of William and Mary, Gloucester Point, VA

11:10 a.m.

Design and Performance of Headland Bays in Chesapeake Bay, USA

C. Scott Hardaway, Jr., Virginia Institute of Marine Science, College of William and Mary, Gloucester Point, VA and James R. Gunn, Coastal Design and Construction, Inc., Gloucester, VA

11:35 a.m.

“Adventures” in Manipulating a Sandy Bay Shoreline - Daphne Alabama’s Mayday Park

Scott L. Douglass, Ph.D., P.E., University of South Alabama, Mobile, AL and Caren Reid, South Coast Engineers, Fairhope, AL

12:00 noon

Luncheon

SESSION D - Modeling

10:45 a.m.

Computation of Large-Scale, Regional Sediment Budget using Delft3D

Steven C. Howard, P.E., Olsen Associates, Inc., Jacksonville, FL

11:10 a.m.

Calibration and Application of SBEACH in Florida

Mark E. Leadon, P.E., Beaches and Shores Resource Center, Florida State University, Tallahassee, FL

11:35 a.m.

Application of the Beach-fx Economic Model in St. Johns County, Florida

Jason A. Engle, P.E., U.S. Army Corps of Engineers, Jacksonville District, FL

12:00 noon

Luncheon

Thursday, February 4, 2010

CONCURRENT SESSIONS

1:30 p.m. to 3:10 p.m.

SESSION E - Projects

1:30 p.m.

Balancing Coastal Engineering and Potential Impacts of Discarded Military Munitions on Beach Replenishment Projects

Keith Watson, U.S. Army Corps of Engineers, Philadelphia District, PA, George C. Follett, PMP, U.S. Army Corps of Engineers, Baltimore District, MD, and Eric D. Stahl, P.E., LEED AP, Weston Solutions, Inc., West Chester, PA

1:55 p.m.

Merging Construction Lessons with Future Designs of Louisiana's Barrier Islands

Gordon Thomson, P.E., Andrew Wycklendt, M.S. and David Swigler, M.S., Coastal Planning & Engineering, Inc., Boca Raton, FL

2:20 p.m.

Monitoring of a Core-Loc™ Breakwater in Lanai, Hawaii

Thomas D. Smith, Jessica H. Podoski, and Justin Goo, U.S. Army Corps of Engineers, Honolulu District, HI

2:45 p.m.

Case Study of Sand Placement Design on a Sand Starved Coast

Dilip K. Barua, Ph.D., P.E., Charles Foutaine, E.I., and Michael Walther, P.E., Coastal Technology Corp., Vero Beach, FL

3:10 p.m.

Professional Exchange Break

SESSION F – Sediment and Shoreline Change

1:30 p.m.

Regional Sediment Management and Sustainability Analysis for Southeast Florida

Christopher Bender, Ph.D., P.E. and Jonathan Hall, P.E., Taylor Engineering, Inc., Jacksonville, FL and Matthew Schrader, P.E., U.S. Army Corps of Engineers, Jacksonville District, FL

1:55 p.m.

An Evaluation of Sediment Quality and Performance in Select Historical Beach Nourishment Projects

Walker Dawson, E.I. and Leighann Budde, M.S., Coastal Technology Corp., Vero Beach, FL

2:20 p.m.

Characteristics of the Shoreline Change Along the Sandy Beaches of the State of Florida: an Atlas, Example for Palm Beach County

Luciano Absalonsen and Robert Dean, Ph.D., P.E., Department of Civil and Coastal Engineering, University of Florida, Gainesville, FL

2:45 p.m.

Offshore Sand Search Investigations and Borrow Area Design Guidelines

Jennifer L. Koch, Ph.D., Robert M. Brantly, P.E., and Elizabeth Kromhout, P.G., Florida Department of Environmental Protection, Tallahassee, FL

3:10 p.m.

Professional Exchange Break

Thursday, February 4, 2010

CONCURRENT SESSIONS

3:45 p.m. to 5:30 p.m.

SESSION G – Surveying and Monitoring

3:45 p.m.

Confidence in Hydrographics: Advancement of Survey Technology and Techniques for Beach Restoration Projects

Michael Lowiec and Jeffrey Andrews, PSM, Coastal Planning & Engineering, Inc., Boca Raton, FL

4:10 p.m.

HDMLS (High-Definition Mobile Laser Surveys) for Coastal Management

Tim Cawood, PLS, McKim & Creed, PA, Wilmington, NC

4:35 p.m.

Guidelines for Beach Nourishment Physical Monitoring Engineering Reports

Jenny J. Cheng, M.S., Florida Department of Environmental Protection, Tallahassee, FL and Emmett R. Foster, M.S., P.E., Beaches and Shores Resource Center, Florida State University, Tallahassee, FL

5:00 p.m.

Plans and Start-up Activities for Coastal Engineering Certification

Billy L. Edge, Ph.D., P.E., Texas A&M University, College Station, TX

5:30 p.m.

Adjourn

SESSION H – Sea Turtles

3:45 p.m.

Nearshore Hardbottom Resources in Brevard County as Development Habitat for Juvenile Marine Turtles

Karen G. Holloway-Adkins, East Coast Biologists, Inc., Indialantic, FL

4:10 p.m.

Florida's Marine Turtles, It's Not Just About Beaches

Daniel Evans and Gary Appelson, Caribbean Conservation Corporation, Gainesville, FL

4:35 p.m.

Loggerhead Sea Turtle Nesting and Small-Scale Beach Restoration Projects - Indian River County, Florida

Jonathan C. Gorham, Ph.D., Indian River County, Vero Beach, FL

5:00 p.m.

The Effects of Beach Nourishment on Sea Turtle Nesting Densities in Florida

Aubree Gallaher Hershon, University of Florida, Gainesville, FL

5:25 p.m.

Adjourn

Friday, February 5, 2010

CLOSING SESSION

8:30 a.m. to 12 noon

SESSION I – Sebastian Inlet, Florida

8:30 a.m.

State of Sebastian Inlet Report 2009: An Assessment of Inlet Morphologic Processes, Shoreline Changes, Local Sediment Budget and Beach Fill Performance
Gary A. Zarillo, Ph.D. and Florian G. Brehin, Department of Marine and Environmental Systems, Florida Institute of Technology, Melbourne, FL

8:50 a.m.

Improving Sand Resources and Surf Break Management on the Ebb Shoal of Sebastian Inlet, FL: Morphologic and Wave Modeling
Florian G. Brehin and Gary A. Zarillo, Ph.D., Department of Marine and Environmental Systems, Florida Institute of Technology, Melbourne, FL

9:10 a.m.

Reef Mitigation ‘Gardens’
William R. Dally, Ph.D., P.E., Surfbreak Engineering Sciences, Inc., Winter Park, FL

9:30 a.m.

Sebastian Inlet Channel Completion Project: Engineering and Project Management Solutions to Inlet Channel Construction
David L. Stites, Ph.D., Joseph Wagner, P.E. and Michael Whalen, P.E., Taylor Engineering, Inc., Jacksonville, FL, Martin S. Smithson, Sebastian Inlet District, Indialantic, FL, and Donald R. Deis, M.S., CEP, PBS&J, Jacksonville, FL

9:50 a.m.

Comprehensive Seagrass Mitigation and Monitoring Program at Sebastian Inlet, Florida
Bradley T. Furman, Leslie Duncan, Amit L. Hazra, and Donald R. Deis, M.S., CEP, PBS&J, Jacksonville, FL and Martin Smithson, Sebastian Inlet District, Indialantic, FL

10:10 a.m.

Professional Exchange Break



Sebastian Inlet State Park

Photo Courtesy of Florida's Space Coast Office of Tourism



This dune aerial photo was taken during an emergency dune project about 1 mile north of the Crown Plaza.

Photo Courtesy of Brevard County Natural Resources Management Office

CLOSING GENERAL SESSION

10:45 a.m.

Coastal Storm Modeling - System Integration
Thomas C. Massey and Ty V. Wamsley, U.S. Army Engineer Research and Development Center, Coastal and Hydraulics Laboratory, Vicksburg, MS

11:10 a.m.

Florida Sea Grant: Program Overview and New Initiatives Related to Sea Level Rise
Karl Havens, Ph.D., Florida Sea Grant College Program, University of Florida, Gainesville, FL

11:35 a.m.

Miramar Beach Parking and Public Access Structure Walton County, Florida
Jonathan T. Armbruster, P.E. and Michael R. Krecic, P.E., Taylor Engineering, Inc., Jacksonville, FL

12:00 noon

Conference Adjourns

CONFERENCE REGISTRATION

23rd Annual National Conference on Beach Preservation Technology

For more information:
Phone: (850) 906-9227
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www.fsbpa.com

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Early Registration

Through January 8, 2010

- Member Registration \$325
- Non-Member Registration \$425
- Full-time Student * \$125

Regular Registration

After January 8, 2010

- Member Registration \$375
- Non-Member Registration \$475
- Full-time Student \$125

* Students must provide valid Student ID

Cancellation requests must be made in writing and received on or before Monday, January 25, 2010. A \$50 processing fee will be assessed. No refunds will be made for cancellations received after January 25, 2010.

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Florida Engineers who attend and sign in at the registration desk are eligible to receive CEU's. FSBPA's exempt provider number is EXP 0003914.

HOTEL RESERVATIONS

Make your reservation directly with the hotel

Crowne Plaza Melbourne Oceanfront Resort
2605 North A1A
Indialantic, FL 32903

Reservations: 1-800-2CROWNE or 1-321-777-4100
Standard Room \$124 single/double (Free parking)

To receive the group rate below, please mention the Group Code:
BPT

To ensure that a room is available, reservations should be made by **January 15, 2010**. After this date, rooms may not be available.



Florida Shore & Beach Preservation Association
2010 NATIONAL CONFERENCE ON BEACH PRESERVATION
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