

28th Annual National Conference on Beach Preservation Technology

February 4-6, 2015
Clearwater Beach Marriott
on Sand Key



“America’s Largest Annual Conference on
Beach Preservation Technology”

Clearwater Beach
Photo Courtesy of the City of Clearwater

Conference Information

CONFERENCE OBJECTIVES

- To present the latest in beach preservation technology, research, and real-world practice.
- To provide technological transfer from the academic, scientific and the coastal design communities to decision-makers at all levels of government who make the funding as well as regulatory decisions regarding specific beach projects and policies.

CONFERENCE HIGHLIGHTS

The 2015 National Conference on Beach Preservation Technology program will provide timely and important topics on beach nourishment and inlet management projects ♦ monitoring and surveying ♦ coastal structures ♦ sea level rise ♦ turbidity associated with dredging projects ♦ nearshore hardbottom ♦ and much more!

Here are just a handful of some of the most anticipated presentations:

- A panel of presentations, with time allocated for audience discussion, on turbidity – sediment loss during the hydraulic dredging process, an update on FDEP's turbidity monitoring working group, and mixing zone requirements
- An update on BOEM's Hurricane Sandy response initiatives
- A panel of presentations on sea level rise – shoreline change associated with sea level rise, sea level rise effects on beach nourishment, and guidance from the USACE on sea level change and application to storm damage reduction projects
- An update on the Florida Habitat Conservation Plan (HCP)
- A panel of presentations, with time allocated for audience discussion, on hardbottom – the value of hardbottom and hardbottom monitoring, FDEP's proposed hardbottom monitoring standard operating procedures, FDEP's UMAM update, and a case study on JCP environmental monitoring
- Environmental windows, dredging costs, beach visitation, wave data, and many other topics
- The Port Everglades sand bypass project, the relocation of coral associated with the Port of Miami dredging, the updated Port Canaveral inlet management plan, and many other projects

Beginning with the 2015 conference, one of our nation's coastal engineering/science programs will be highlighted as part of the program. This year we will hear from Dr. Bill Dally with the University of North Florida in Jacksonville, Florida.

There is no shortage of exceptional presentations to attend and learn from, so join us in February for our 28th annual conference!

WHO SHOULD ATTEND?

U.S. Army Corps of Engineers
State and Federal Resource Protection Agencies
Coastal Engineers and Project Contractors
City and County Elected and Administrative Officials
City and County Environmental Resource Managers
City and County Beach Management Coordinators
Inlet Districts and other Special Interest Districts
Academic Researchers
Legislators and Legislative Staff
Coastal Consultants, Businesses, and Services
Tourist Development Councils
Convention and Visitors Bureaus
Hotel and Resort Interests
Environmental Groups and Alliances
General Government and Coastal/Ocean Associations
Coastal Geologists and Biologists
Coastal Residents and other Interested Citizens



Upham Beach Nourishment Project, August 2014
Photos courtesy of Pinellas County

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Wednesday Afternoon, February 4

An Overview of Pinellas County's Nourished Beaches and their Performance -- John Bishop, Ph.D. and Andrew Squires, Pinellas County, FL and Ping Wang, Ph.D., Coastal Research Laboratory, Department of Geology, University of South Florida, Tampa, FL

The Port Everglades Sand Bypass Project: An Important Future Sand Source for SE Florida Beaches -- Christopher Creed, P.E. and Steven Howard, P.E., Olsen Associates, Inc., Jacksonville, FL and Nicole Sharp, P.E., Broward County, FL

The Relocation of *Acropora Cervicornis*, Other Non-Acroporid Stony Corals, and *Xestospongia Muta* (Barrel Sponges) Associated with the Port of Miami Dredging Project -- Keith Spring and Anne McCarthy, CSA Ocean Sciences Inc., Stuart, FL

Fate of Fines Study: Sediment Loss During the Hydraulic Dredging Process -- Jase Ousley, P.G., U.S. Army Corps of Engineers, Jacksonville District, FL and Jennifer Coor, Ph.D., Florida Department of Environmental Protection, Division of Water Resource Management, Tallahassee, FL

Results from the Turbidity Monitoring Working Group -- Martin Seeling, PWS, Florida Department of Environmental Protection, Division of Water Resource Management, Tallahassee, FL

The Reality of Mixing Zone Requirements -- Tara Brenner, P.G., Thomas Pierro, P.E., and Lauren Floyd, CB&I Coastal Planning & Engineering, Inc., Boca Raton, FL

Panel and Audience Discussion

Improving Florida's Beaches: USFWS and USACE Partnership Under 7(A)(1) of the Endangered Species Act -- Aubree Hershorin, Ph.D. and Jase Ousley, P.G., U.S. Army Corps of Engineers, Jacksonville District, FL and Ann Marie Lauritsen, U.S. Fish and Wildlife Service, Saint Petersburg, FL

An Update on the Bureau of Ocean Energy Management's Hurricane Sandy Response Initiatives -- Jennifer Culbertson, Ph.D., Bureau of Ocean Energy Management Headquarters, Department of the Interior, Herndon, VA

Thursday Morning, February 5 ♦ CONCURRENT SESSIONS

SESSION A

UMAM Updates and Progress of Rule Development Process -- Lainie Edwards, Ph.D., Florida Department of Environmental Protection, Division of Water Resource Management, Tallahassee, FL

The Value of Hard Bottom and Hard Bottom Monitoring -- Eric Summa, U.S. Army Corps of Engineers, Jacksonville District, FL

Hardbottom Monitoring Standard Operating Procedures for Beach Nourishment Projects -- Lainie Edwards, Ph.D., Florida Department of Environmental Protection, Division of Water Resource Management, Tallahassee, FL

JCP Environmental Monitoring – Making it Meaningful, A Case Study – Charlotte County Stump Pass Erosion Control Project Seagrass Monitoring -- Kimberly Colstad, Coastal Technology Corp., Vero Beach, FL and Kris Thoenke, Ph.D., Coastal Engineering Consultants, Inc., Naples, FL

Panel and Audience Discussion

SESSION C

Honeymoon Island Beach Restoration Project – Phase II Funding Overview and Construction Update -- Andrew Squires and John Bishop, Ph.D., Pinellas County, FL and Brett Moore, P.E. and Mohamed Dabeas, Ph.D., P.E., Humiston & Moore Engineers, Naples, FL

Evaluation of Bahamian Sand as a Nourishment Source for Long Key State Park -- Peter Seidle, P.E., Applied Technology and Management, Inc., West Palm Beach, FL, Cheryl Miller, Coastal Eco-Group, Deerfield Beach, FL, and Marshall Flake, Division of Recreation and Parks, Tallahassee, FL

Development of Estero Island Coastal Management Plan -- Josh Carter, P.E., Coast & Harbor Engineering, a Division of Hatch Mott MacDonald, New Orleans, LA, Matthew Campbell, P.E. and Arpit Agarwal, Coast & Harbor Engineering, Inc., a Division of Hatch Mott MacDonald, Austin, TX, and Keith Laakkonen, Town of Ft. Myers Beach, FL

SESSION B

Cutting Edge Developments of Combined Bathymetric/Topographic LiDAR as a Support Tool in the Coastal Zone -- Rupert Forester-Bennett, Pelydryn, Exeter, UK

Planes, Boats and Booties – Sea Bright to Manasquan Beach Profile and Groin Surveys -- Tim Cawood, PLS, McKim & Creed, Wilmington, NC

Detailed Visualization of Project Volume Changes -- Patrick Snyder, P.E. and Albert Browder, Ph.D., P.E., Olsen Associates, Inc., Jacksonville, FL

Vulnerability of Indian River County's Coast to Episodic Storm Events -- David Swigler, P.E., Gordon Thomson, P.E., and Julien Devisse, CB&I Coastal Planning & Engineering, Inc., Boca Raton, FL and James Gray, Indian River County, FL

2014 Anna Maria Island Beach Nourishment Projects Construction and Post-Construction Monitoring -- Michelle Pfeiffer, P.E. and Thomas Pierro, P.E., CB&I Coastal Planning & Engineering, Inc., Boca Raton, FL and Charlie Hunsicker, Manatee County, FL

SESSION D

Coastal Structure Permitting in Florida: Part II -- Jason Engle, P.E. and Tori White, U.S. Army Corps of Engineers, Jacksonville District, FL

Recent Applications and Advancements for the Strategic Use of Coastal Structures -- Thomas Pierro, P.E., CB&I Coastal Planning & Engineering, Inc., Boca Raton, FL

Headlands, Living Shorelines and Breakwaters: Design, Construction and Performance of Three Cool Sites Along the Potomac River Estuary -- 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

PROGRAM WITH SPECIFIC TIMES WILL BE AVAILABLE ONLINE AT WWW.FSBPA.COM

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Thursday Afternoon, February 5 ♦ CONCURRENT SESSIONS

SESSION E

Development and Adoption of Updated Inlet Management Plans – Port Canaveral Inlet Management -- Ralph Clark, P.E., Florida Department of Environmental Protection, Division of Water Resource Management, Tallahassee, FL and Kevin Bodge, Ph.D., P.E., Olsen Associates, Inc., Jacksonville, FL

Wiggins Pass Inlet Management Plan Implementation and 1st Year Performance -- Stephen Keehn, P.E., Julien Devisse, P.E., and Tara Brennar, P.G., CB&I Coastal Planning & Engineering, Inc., Boca Raton, FL and Gary McAlpin, P.E., Collier County, FL

Design and Expansion of the Sebastian Inlet Sand Trap -- Michael Jenkins, Ph.D., P.E., Applied Technology and Management, Inc., West Palm Beach, FL and Martin Smithson, Sebastian Inlet District, Indian River County, FL

Modern and Historical Morphodynamics of the John's Pass – Blind Pass Dual-Inlet System, Pinellas County, Florida -- Mark Horwitz, P.G., Ping Wang, Ph.D., Ming Xie, and Jun Cheng, Coastal Research Laboratory, Department of Geology, University of South Florida, Tampa, FL

SESSION G

Current Methods of Calculating Beach Visitation Benefits of Beach Nourishment Projects -- Michael Trudnak, P.E., Taylor Engineering, Inc., Jacksonville, FL and William Hunt, retired USACE, Jacksonville, Florida

Comparison of Taxation and Spending Relative to Beach Nourishment -- Jimmy Sellers, M.B.A., Coastal Technology Corp., Vero Beach, FL

The Florida Beaches Habitat Conservation Plan: A Collaborative Effort -- Jennifer McGee, Ph.D., Thomas Ostertag, Florida Fish and Wildlife Conservation Commission, Tallahassee, FL, Lisa Robertson, Florida Department of Environmental Protection, Tallahassee, FL, and Brian Powell, U.S. Fish and Wildlife Service, Vero Beach, FL

Science Approach to Maintain a Healthy Beach -- Chung-Sheng Wu, Ph.D., Meteorological Development Laboratory, Office of Science and Technology, National Weather Service, National Oceanic Atmospheric Administration, Silver Spring, MD

Friday Morning, February 6

Shoreline Change in Response to Sea Level Rise on the Southwest Coast of Florida -- James Houston, Ph.D., U.S. Army Engineer Research and Development Center, Vicksburg, MS

Sea Level Rise Effects on Beaches and Beach Nourishment -- Andrew Condon, Ph.D. and Michael Walther, P.E., Coastal Technology Corp., Vero Beach, FL

U.S. Army Corps of Engineers Guidance on Sea Level Change and Application in Coastal Storm Damage Reduction and Ecosystem Restoration Projects -- Heidi Moritz, P.E., U.S. Army Corps of Engineers, Portland District, OR, and Matthew Schrader, P.E. and Mark Shafer, P.E., U.S. Army Corps of Engineers, Jacksonville District, FL

Living With Sea Level Rise -- Douglas Mann, P.E., CB&I Coastal Planning & Engineering, Inc., Boca Raton, FL

Introduction to the Coastal Engineering Program at the University of North Florida, Jacksonville, Florida -- William Dally, Ph.D., P.E., University of North Florida, Jacksonville, FL

SESSION F

Maximizing Environmental Benefits through the Gulf Environmental Benefit Fund -- Kenneth Craig, P.E., Taylor Engineering, Inc., Jacksonville, FL and Jonathan Porthouse, National Fish and Wildlife Foundation, Baton Rouge, LA

Environmental Windows, A Closer Look -- Bill Hanson, Great Lakes Dredge and Dock Co. LLC, Oak Brook, IL

An Evaluation of Environmental Windows on Dredging Projects in Florida, USA -- Aubree Hershorin, Ph.D. and Terri Jordan-Sellers, U.S. Army Corps of Engineers, Jacksonville District, FL

Evaluating Expected Dredging Costs for Highly Variable Market Conditions -- Steven Howard, P.E., Olsen Associates, Inc., Jacksonville, FL

SESSION H

The Coastal Defense Application: Evaluating Nature's Role in Coastal Protection in Southeast Florida -- James Byrne, Chris Bergh, Caitlin Lustic, The Nature Conservancy, Big Pine Key, FL and Zach Ferdana and Greg Guannel, Ph.D., Natural Capital Project, Stanford, CA

Coastal Resiliency in Broward County -- Samantha Danchuk, Ph.D., P.E., Nicole Sharp, P.E., and Jennifer Jurado, Ph.D., Broward County, FL

A Case Study in Applying Natural Resources Management for Coastal Resiliency: The City of Miami Beach Dune Management Plan -- Margarita Wells, City of Miami Beach, FL

Climate Change and Population Dynamics of Coastal Dune Plants: Will *Dalbergia* Eat the Beach This Year or Next? -- Robert Barron, Coastal Growers, Inc., Boynton Beach, FL

Analysis of a 10-Year Nearshore Wave Data Base and Its Implications to Littoral Processes -- Luis Montoya and William Dally, Ph.D., P.E., University of North Florida, Jacksonville, FL

UAS for Coastal Applications: Understanding the Regulatory Environment -- Adam Benjamin, UF/IFAS Fort Lauderdale Research & Education Center, University of Florida, Fort Lauderdale, FL and Earl Soeder, PSM, GPServ, Inc., Orlando, FL

Coastal Engineering Haitian Style -- Gary Zarillo, Ph.D., Department of Marine & Environmental Systems, Florida Institute of Technology, Melbourne, FL, Timothy Blankenship, P.E., Coastal Systems International, Inc., Coral Gables, FL, and Jean Lucien Lligonde and Joseph Philoxy, CHRAD, Petionville, Ovest, Haiti

Passive Dewatering – A Soft Way to Extend the Life of Beach Nourishments -- Kenneth Christensen, EcoShore Int'l, Inc., Boca Raton, FL, Sandy Nettles, P.G., Nettles & Associates, Inc., Palm Harbor, FL, and Frank Gable, Ph.D., Department of Marine and Ecological Sciences, Florida Gulf Coast University, Fort Myers, FL

PROGRAM WITH SPECIFIC TIMES WILL BE AVAILABLE ONLINE AT WWW.FSBPA.COM

Conference Registration and Hotel Information

REGISTRATION

Early Registration
Through January 13, 2015

Member Registration	\$350
Non-Member Registration	\$400
Full Time Students*	\$125

Regular Registration
After January 13, 2015

Member Registration	\$400
Non-Member Registration	\$450
Full Time Students*	\$125

* must provide valid student ID with registration

THREE WAYS TO REGISTER

ONLINE: www.fsbpa.com/tech-conference.html
FAX: 850-462-3575
MAIL: FSBPA, PO Box 13146, Tallahassee, FL 32317

To fax or mail, download the registration form from the link above.

The cancellation policy is listed on the website.

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.

For more information on the conference and sponsorship/exhibit opportunities, please contact:

Teri Besse, Conference Manager

Florida Shore & Beach Preservation Association, Inc.

PO Box 13146, Tallahassee, FL 32317

Phone: (850) 906-9227 * Fax (850) 462-3575

mail@fsbpa.com | www.fsbpa.com

Student Conference Scholarships Available!

Poster Presentation

Five students will receive complimentary registrations to the conference and an opportunity to present their posters during the conference professional breaks. One of the five poster presenters will be awarded a \$500 stipend for travel and other expenses. For complete details, visit

www.fsbpa.com/tech-conference/studentscholarship.html

DEADLINE FOR APPLICATIONS IS JANUARY 7, 2015

HOTEL RESERVATIONS

Clearwater Beach Marriott on Sand Key

Room Rate: \$155
single/double plus taxes

For reservations online, visit
www.fsbpa.com/tech-conference/hotel.html

For reservations by phone,
call (800) 228-9290 or (727) 596-1100

TO RECEIVE THE GROUP RATE, MENTION FSBPA

To ensure that a room is available,
reservations should be made by **January 13, 2015.**



Florida Shore & Beach Preservation Association
2015 NATIONAL CONFERENCE ON BEACH PRESERVATION TECHNOLOGY
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CONFERENCE ORGANIZER

Florida Shore & Beach Preservation Association

With the valuable assistance of the 2015 Conference Planning Committee and Lisa Armbruster, FSBPA

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