

Register Now!
2018 Tech Conference

news from the Florida Shore and Beach Preservation Association

January 2018

A New Year's Message from Jackie Larson, Executive Director

Happy New Year! 2017 was a memorable year for FSBPA. Not unlike most years, there were the typical twists and turns, unexpected challenges and noteworthy accomplishments. FSBPA welcomed several new faces to help advance beach preservation, celebrated retirements and said good bye to a few of our respected colleagues, and impressively turned the big 6-0.

Looking back at our 2017 events, we enjoyed hosting two milestone anniversary conferences. It was banner attendance at both the Tech and Annual conferences as we welcomed 475 participants, 50 sponsorships, and 40 exhibitors, several being brand new to FSBPA conferences. The Tech Conference success can be attributed in large part to the Planning Committee and the outstanding program they prepared, which balanced beach related technical work with other relevant topics such as living shorelines, coastal flooding, and sea level rise planning, adaptation, and resiliency. The program definitely attracted many new faces. As for the Annual Conference, some of the highlights included having the federal agencies available at a critical time just weeks after Hurricane Irma to

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Inside this Edition

2018 Tech Conference
February 7-9
Edgewater Beach Resort
Panama City Beach, Florida

Please join us in Panama City Beach
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- ◆ **Program**
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- Deadline is January 12, 2018**
- ◆ **Student Scholarships**



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#TECH2018



discuss post storm recovery efforts with their local project sponsors. In addition, we received Corps and FDEP updates about their agency's shore protection funding, learned about the Corps' Southeast Coastal Assessment timeline and implementation strategy, and heard about Legislative strategies.

Every year, we continue to advance coastal and beach management issues by sharing and discussing critical and up-to-date information at these conferences. It is worth repeating how much we appreciate the support of our members and guests, exhibitors, sponsors including two outstanding County host sponsors – Martin and Broward Counties, and the many presenters who offered their time and expertise.

While reflecting on 2017, there was one most notable accomplishment to applaud – helping to secure, with the aid of Senate and House beach champions, almost **\$80M** in beach-related appropriations. Included in these appropriations were funds for the traditional statewide program, supplemental funding for storm damage recovery, and almost \$16M in emergency funding made available by Governor Scott prior to the 2017 Session. An unprecedented \$50M of this year's beach related funding was appropriated for local government beach and inlet management projects requested through the statewide beach management program. Highlights of the \$50M beach management appropriation include:

- **Recurring funding** from the Land Acquisition Trust Fund of \$29.5M.
- **Recognition of Inlets** – also unprecedented was the nearly **\$16M** appropriated for the top three inlet projects, funding needed to help conserve sand resources and implement effective inlet sand management programs.
- **Beach Projects** – Over **\$32M** appropriated for beach projects and will fund a dozen or more beach restoration and nourishment projects.
- **Post-Construction Monitoring** – funding was appropriated for post-construction monitoring requests of beach and inlet projects.
- **Integrity of the priority project lists** – The Legislature fully funded projects in priority order in the amounts requested by local sponsors.

An additional **\$13.3M** was made available separate and apart from traditional program funding for storm damage recovery, specifically for dune repair in those counties hardest hit by Hurricane Matthew.

This level of funding has been priority of FSBPA for a number of years and the accomplishment bears repeating. We are most grateful for our members, especially local governments, and the coalition of coastal interests who joined us in supporting this 2017 Legislative initiative.



Port Everglades,
Broward County

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St. Johns County

For many Florida coastal communities, 2017 will be remembered by Hurricane Irma whose impacts were felt across most of the state and compounded damages in the northeast where recovery from Hurricane Matthew was at a critical juncture. Many communities are still patiently awaiting decisions from Congress about emergency relief funding. Though, if there is an upshot from the past two hurricane seasons – it would be how well that nourished beaches and healthy dune systems protected upland properties and structures from the effects of coastal flooding and erosion. Nourished beaches performed exceptionally well, and the message to share now is how important it is to not only replace

sand losses after a storm but to also reestablish the planned nourishment interval of our projects with traditional program funding.

As we enter into 2018, we do so with great anticipation about the outcome of our top priority - **sustaining the current year funding level of \$50M**, but securing all dollars in recurring Amendment 1 trust funds (LATF). This means an increase of a \$20.5M in recurring dollars, which will be challenging given the number of competing programs for limited Amendment 1 funds. We will also help to track local governments' efforts to secure supplemental state emergency funding for Hurricane Irma as well as help to track decisions made by Congress on emergency relief funding (hopefully this month). Local sponsors for the majority of Florida's federal projects (20 of our 25 statewide projects) reported Irma impacts to trigger Project Implementation Reports so we know most of you are following these discussions.



Edgewater Beach Resort, Feb 2017

There is much anticipation building over the 31st National Tech Conference in Panama City Beach – the first conference in the Florida Panhandle since 2005! The program is included in this month's Shoreline in case you haven't had the opportunity to check it out. The Planning Committee has prepared another incredible program with must hear presentations, including a kick-off presentation about the Host County's successful beach management program 22 years in the making.

Stay tuned for more information about the 2018 Annual Conference in Clearwater Beach!

Lastly for the purpose of this New Year's note from the Executive Director, we hope to keep the conversation going strong about the importance of beaches today and throughout the year. We need your help to keep the conversation on-going and continue promoting the role beaches have in protecting upland resources and preserving the unique beauty of each Florida coastal community. Please let us know how we can help your community to meet its beach preservation goals and please keep us informed about your projects. We are on Twitter and Facebook and want to share the news about your beach projects. On behalf of the FSBPA team, we wish you a happy, safe and prosperous new year.



Please join us in Panama City Beach!

By Lisa Armbruster
Sustainable Beaches, LLC

What's with the conveyor belt full of shells?!

To find out, please join us in Panama City Beach for the annual technical conference! You can learn about why and how this process was implemented during the latest beach renourishment construction project in spring 2017.

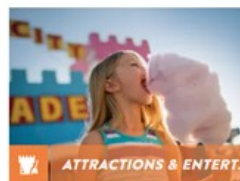


It's been over a decade since the annual technical conference has ventured to the panhandle of Florida, and this is its first ever time in Panama City Beach. The opening presentation will focus on this successful beach management program, which was first initiated following devastating Hurricane Opal in October 1995. Since that time, four major beach renourishment construction projects have occurred – two of which (1998/99 and 2005/06) renourished all 18 miles – yes, eighteen! – of the project area. The most recent projects – 2011 and 2017 – renourished the hot spots in order to extend the life of the entire project area.

You will hear not only about the beach renourishment construction projects of the Panama City Beaches, and in particular, the 2017 project which applied shell screening. You will also hear about the management aspects of this project. You will learn about how the Bay County TDC manages the program on behalf of Bay County, with local funding coming from the “third cent” bed tax. You'll also hear about how the 18-mile project area is an authorized reimbursable federal shore protection project, but has also been renourished by the local government at state and local expense. You'll learn about the storms that have heavily influenced the health of this project, and how the project's renourishment interval is largely driven by these storms. At the conclusion of this presentation, you will have an understanding about how important this project is to its community, and how it has evolved into a highly successful beach management program poised to continue moving into the future.

So, again, please join us in Panama City Beach in February! We will call on the weather gods to provide sunshine and a bit of warmth. It's the quietest time of year; so, you can easily enjoy the many great restaurants and shopping the area has to offer. And best of all, the beautiful turquoise waters of the Gulf of Mexico and the white sandy beaches that make Panama City Beach famous, are only steps from the conference venue.

Things to do in Panama City Beach



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Conference Registration

Register Online

For details on registration fees, go to www.fsbpa.com/tech-conference/registration.html

Hotel Reservations

Hotel reservations should be made directly with the conference hotel, the Edgewater Beach Resort. The hotel will honor the group rates as long as rooms remain in FSBPA's block or until **January 12, 2018**, whichever occurs first. For complete details on group room rates which start at \$137 plus tax, visit, www.fsbpa.com/tech-conference/hotel.html.



Sponsorship and Exhibit Information

We hope you will favorably consider a sponsorship and/or exhibit booth to promote your company's services and wares. Either option is a great opportunity to meet new professionals in coastal related fields.

For complete details and to see what options are still available, [click here](#).

Thank you to the following Sponsors and Exhibitors who are currently attending.

- American Vibracore Services
- Applied Technology & Management
- APTIM
- Coastal Engineering Consultants
- Eastman Aggregates Enterprises
- Ecological Associates
- Gahagan & Bryant
- Great Lakes Dredge & Dock Company
- Humiston & Moore
- Hyatt Survey Services
- Lewis Longman Walker
- Manson Construction

- Moffatt & Nichol
- MRD Associates
- Norfolk Dredging
- Olsen Associates
- Oslo Packing Company
- Seismic Survey
- Sexton
- STANTEC
- Taylor Engineering
- TetraTech
- Visit Panama City Beach

31ST NATIONAL CONFERENCE ON BEACH PRESERVATION TECHNOLOGY

The 2018 Tech Conference welcomes over 50 speakers to present the latest technology and research in beach preservation and coastal management.

2018 Technical Sessions INCLUDE

- Shore Protection and Shoreline Stabilization
- Regional Sand Management and Sediment Transport
- Inlet Management
- Hurricane Response and Recovery
- Modeling, Monitoring and Research
- Living Shorelines and Environmental Restoration
- Sea Level Rise Planning and Resiliency

2017 Tech Conference PROFILE

2017 Attendees by Sector

A pie chart showing the distribution of attendees by sector for the 2017 conference. The sectors and their approximate percentages are: Government (30%), Engineering Firms (25%), Dredging Firms/Project Consultants (20%), Coastal Consultants (15%), Non-Profit/Academia (5%), and Property Owners (5%).

2017 Tech Conference By the Numbers		
	Attendees	248
	Sponsors	25
	Exhibitors	19
	Continuing Education Credit Hours	17.75

31st Annual National Conference on Beach Preservation Technology Conference Program

February 7-9, 2018 ♦ Edgewater Beach Resort ♦ Panama City Beach, FL

Wednesday, February 7, 2018

OPENING SESSION

Note: Times are listed in Central Standard Time

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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Wednesday, February 7, 2018

OPENING SESSION

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

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**Next Page**

Thursday, February 8, 2018**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**Next Page**

Thursday, February 8, 2018**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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Thursday, February 8, 2018**CONCURRENT SESSIONS****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****Next Page**

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*Subject to change, any updates as necessary will be made online and presenters notified***Next Page**

2018 Tech Conference Student Scholarships

The Florida Shore and Beach Preservation Association, organizer of the National Conference on Beach Preservation Technology, is pleased to announce that it will be awarding one student a \$500 stipend for travel and other expenses to the 2018 Tech Conference which will also include a registration waiver. In addition, four other students will receive a gift card and registration waiver to the conference. A poster presentation is required by the selected students. The posters will be displayed in the exhibit area and presented during the professional exchange breaks. Please click on the link below for further details and to view/print the flyer and application. Don't miss out on this excellent opportunity!

The deadline for applications is January 8, 2018

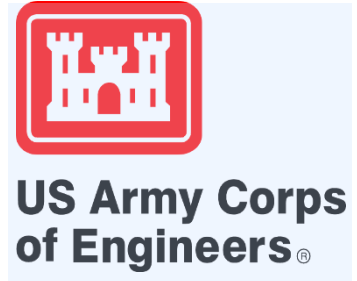
[Click here for the Flyer and Application](#)

For more information, please contact Teri Besse
Email: teri@sbpa.com

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USACE Jacksonville District

Federal Project Status Updates-December 2017



By Gabriel Todaro
Intern, EN-WC
USACE
Jacksonville District

FEASIBILITY STUDIES:

- **Duval County**

The Project Delivery Team (PDT) of the Duval County Shore Protection Project (SPP) is developing a renourishment schedule for the approved Project Information Report (PIR) for Rehabilitation Assistance on eroded areas in Atlantic and Jacksonville Beaches.

- **Flagler County**

Nothing to report.

- **St. Johns County**

The St. Johns County feasibility study is awaiting signature from the Assistant Secretary of the Army for Civil Works (ASA(CW)).

- **St. Lucie County**

The St. Lucie County, Florida Feasibility Study is awaiting the Chief of Engineer's Report

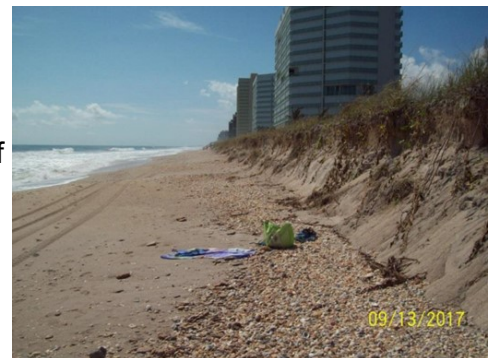


photo courtesy of St. Lucie County

OTHER MAJOR PLANNING REPORTS:

- **Brevard County North & South Reach**

A Project Initiation Report (PIR) in response to Hurricane Matthew was found positive for South Reach. The contract to rehabilitate the beach was awarded to Great Lakes Dredging and Dock in November 2017 and construction is expected to commence in January 2018.

- **Broward County Shore Protection Project - Segment III**

Broward County submitted a letter of interest in March 2016 to request extension of the Federal project an additional 15 years. Broward County is under procurement to obtain an A/E to initiate the LRR for Segment III. The PIR in response to Hurricane Matthew was determined to be negative for both Segment II and III.

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- **Ft. Pierce Shore Protection Project**

The funding for the 11th renourishment was not received in time to award a contract before the turtle window. The award is scheduled for 8 Dec 2017 with construction anticipated to begin in January 2018.

- **Lee County – Gasparilla Island**

A Section 934 report has been initiated to determine the Federal interest in extension of Federal participation in cost-sharing from the current 10 years to a 50-year period of Federal participation, or an additional 40 years. The Tentatively Selected Plan (TSP) Milestone Meeting was held on October 17, 2016. The draft report was released for agency and public comment and an Agency Decision Milestone (ADM) meeting was held in February 2017. The final report was submitted to South Atlantic Division in May 2017. ASA (CW) approval is scheduled for February 2018 approval but may get delayed.

- **Manatee County Shore Protection Project**

The Project Delivery Team (PDT) is working on various activities in preparation for the 2022 renourishment and permitting of the expanded borrow area.

- **Palm Beach County - Jupiter/Carlin Shore Protection Project**

Palm Beach County has submitted a draft Section 934 report and NEPA document for the Jupiter/Carlin Segment to extend Federal participation for the next renourishment and out to 50 years of Federal participation. Following review of the data and report, revisions were recommended to the Beach-fx model. Having received Federal funds for Palm Beach County projects, the model revisions and completion of the 934 report are being conducted at the Jacksonville District. The Tentatively Selected Plan (TSP) Milestone Meeting was held in January 2017; the report was released to the public in March 2017. A successful Agency Decision Milestone was held in May 2017 and the team received approval to move forward with the report. The report was submitted to South Atlantic Division in October 2017 and comments are pending.

REGIONAL SEDIMENT MANAGEMENT (RSM):

The Jacksonville District has been officially named the South Atlantic Division's Center of Expertise (CX) for RSM. With this designation, SAJ will lead a virtual team of subject matter experts from SAD to further operationalize RSM throughout the District. Work has begun to quantify the value of RSM provided by jointly managing navigation, coastal storm risk management (CSR), and ecosystem restoration projects.

- **South Atlantic Comprehensive Coastal Study (SACCS) / RSM Strategy**

Initial coordination to include scope and Project Management Plan (PMP) development are tentatively moving forward as determination of path forward regarding Authority and funding are finalized.

- **SAD RSM Optimization Pilot**

The pilot has been presented to USACE Major Subordinate Command (MSC) Operations Chiefs as well as USACEHQ Navigation and other HQ leaders. Feedback has been extremely positive and a meeting will be scheduled with MG Jackson and Mr. Stockton. Roll out to begin with other MSC's.

ENGINEERING AND DESIGN:

- **Broward County Shore Protection Project - Segment II**

Construction was completed on 28 December 2016. Approximately 665,000 cubic yards of sand was placed on the project. Broward County submitted a letter of interest in March 2016 to request the extension of the federal project an additional 15 years.

- **Nassau County**

The Nassau County Shore Protection Project (NCSPP) is located from FDEP "R" monuments R-13 to R-33; there has been an existing RSM strategy of placing beach quality material dredged from the Kings Bay Entrance Channel (KBEC) maintenance dredging project and placing within the NCSPP template. Award of the contract for the Fiscal Year 2018 dredging event is scheduled for January 2018 and construction is anticipated to commence in March 2018.

- **Sarasota County - Lido Key**

No new updates to the project. Two Big Key Milestones Achieved: The PDT release the draft EA/draft FONSI for public comment/review on 30 Mar 2015. The FDEP JCP application was also submitted to the State on 15 Mar 2015. The application represent the latest design of the groins. This is a significant cost savings to the project (reduction of approximately 11,000 Tons of Granite Armor Stone) and it removes a major hurdle for the project to overcome. A NEPA public meeting was held on 15 Apr 2015 at City Hall City of Sarasota. The public comment period for NEPA closed on 15 May and the PDT is addressing over 300 comments provided by the public through the NEPA process. FDEP provided RAI comment on 15 Apr 2015. PDT has finalized responses to RAI and submitted response to FDEP on 04 September 2015. FDEP requested 2nd RAI on 07 October 2015. PDT is working to respond to 2nd RAI. A newly proposed mitigation site has been identified and the PDT is coordinating with FDEP and FWSS for acceptance. Sarasota County's consultant (ATKINS) has released comments to their Peer review. PDT is working on response to the ATKINS report. PED phase will be complete with acquisition of permit and project will be ready for New Start Construction funding by 1st quarter FY17. SAJ PDT responded to FDEP for 2nd RAI on 1 August 2016. On 31 August the team requested a 30 day waiver to provide FDEP with additional time to review the submitted package and to obtain additional documentation needed from Manatee County. Manatee County approved the use of Perico Seagrass Mitigation site on 28 September. Team received Notice of Completeness from FDEP on 30 September. The Notice of Intent was issued by FDEP 22 December 2016. There are 3 formal petitions of the permit at this time. FDEP is reviewing the petitions to determine if they have merit. The action is to challenge the permit preliminarily issued by FDEP to allow sand re-nourishment of Lido Key Beach. The petitioners are objecting to the proposed sand borrow areas claiming it will cause harm to Siesta Key Beach, aquatic life, and an offshore sand bar used for recreation. Final hearing is scheduled for December 2017.

CONSTRUCTION:

- **Brevard County Mid-Reach**

The General Reevaluation Report (GRR) and Supplemental EIS (SEIS) was approved in September 2014 with the ROD signed by the Assistant Secretary of the Army for Civil Works. The Design Agreement was executed in October 2014 and the Pre-Construction Engineering and Design (PED) kickoff meeting was held in December 2014. The contract was awarded to Shoreline Foundation, Inc on 29 Sept 2016. Construction started in May 2017 and is ongoing. Site 1 placement has been completed and Site 2 placement has been paused due to the winter season. The next placement season begins in April 2018.

- **Dade County Renourishment – Sunny Isles**

Seven bids were received on 12 July 17 for the Sunny Isles Truck Haul project. The awarded project scope includes 140,000 cubic yards of material to be placed within the limits of FDEP range monuments R-7 to R-19.3. The contract award was made on 9 August 2017 and consisted of the Base, Option B, and Option C. The public meeting was held on 31 August, and the pre-construction meeting was held on 28 September 2017. Construction is underway and Option C is complete.

- **Duval County**

All renourishment activities were completed on 25 May 2017.

- **Martin County – Hurricane Matthew Flood Control and Coastal Emergencies (FCCE)**

The PIR from Hurricane Matthew was found to be positive. The contract for the project was awarded on 26 September 2017. The Contractor asked for a delayed NTP until February 2018.

- **Pinellas County**

There was a Congressional Visit on July 26, 2016 to investigate Shell Key preserve as a potential CAP Section 206 or as a borrow source for the shore protection project. Local interest includes homeowners, Tampa Bay Watch, and the County, no formal CAP request has been received to date.

Sand Key: PIR for Sand Key was reviewed and approved for full renourishment. Approximately 360,000 cubic yards of sand eroded from the project's design berm. The project award is expected in September 2017. Additional damages sustained from Hurricane Irma were approved via a PIR addendum in November 2017. The construction has not commenced.

Long Key: The 7th Post construction monitoring data assessment is underway. The PIR does not recommend P.L. 84-99 assistance for Long Key. This segment is included as an option on the FY17 contract.

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Treasure Island: The 10th Post-construction monitoring data assessment is underway. The PDT is investigating the ability to utilize current Construction General (CG) funds on hand to initiate Section 1037 WRRDA 14 analysis for the extension of 15 years of federal participation. Treasure Island federal participation is set to expire in 2025.

- **Sarasota County - Venice**

No New updates to either project.

LRR: SAD provided comments on the Draft LRR on 24 Nov 2014. LRR has been endorsed to SAD on 27 Jan 2016.

FY14 Award: Contract was awarded to GLDD on 25 Sep 2014 under MATOC Group 4. Estimated quantity to be placed on the beach is approximately 750,000 CY. The Pre-Con meeting was held on 13 Nov 2014. Dredging commenced on 16 Jan 2015. Project was physically completed on 12 Apr 2015. On 02 April 2015, approximately 2000 CY of material was leaked from the floating dredge pipeline. GLDD has performed the corrective action plan and FDEP has provided clearance on the remediation action. Area Office has finalized the Final Estimated Quantities modification (a decreased of approx. \$403K).

- **St. Johns County - St. Augustine Beach**

The pre-construction conference was held in October 2017, followed by the public meeting in November 2017. Commencement of dredging is expected in December 2017.



St. Augustine Beach - post Irma

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FDEP Agency Updates



From the Division of Water Resource Assistance

Local Government Funding Request Submitted

The FY18/19 Local Government Funding Request and Long Rang Budget Plan was submitted to the Governor and Legislature on Friday, December 22, 2017. A total of \$56,748,115 in state funding is in the request for 31 beach projects and 8 inlet projects, plus post-construction monitoring. The request and plan will be posted to the Beaches Funding webpage (<https://floridadep.gov/wra/beaches-funding>) by January 9, 2018.

Beach Management Funding Assistance Program Welcomes New Project Manager

Natalie Geyer holds a B.S. degree in Biology from the University of Evansville and a Ph.D. in Oceanography from Florida State University. Her doctoral studies focused on phytoplankton ecology. She received a Graduate Research Fellowship from the National Oceanic and Atmospheric Administration and she is currently working on publishing her research. She has presented at national and international scientific meetings including the Coastal and Estuarine Research Federation and the Association for the Sciences of Limnology and Oceanography. For six years, she volunteered as a marine science instructor for youth and public outreach events. Dr. Geyer is certified as a PADI Dive Master and an AAUS Science Diver.

From the Division of Water Resource Management

Critically Eroded Beaches Update

The 2017 update of the “Critically Eroded Beaches in Florida” report is now available at https://floridadep.gov/sites/default/files/CriticalErosionReport_0.pdf.

Additional shoreline was designated critically eroded in St. John’s, Flagler, Collier and Monroe counties. There are now 420.9 miles of critically eroded beach and 8.7 miles of critically eroded inlet shoreline.



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

The development of the Florida Beaches Habitat Conservation Plan (FBHCP) was initiated in 2007. After almost 10 years, we are preparing to finalize the draft FBHCP in preparation for submission to the U.S. Fish and Wildlife Service (USFWS) in mid-2018. The FBHCP is a required planning document as part of an Incidental Take Permit (ITP) being requested by the Florida Department of Environmental Protection's (FDEP). FDEP's Coastal Construction Control Line (CCCL) Program issues permits for activities that have the potential to impact federally protected species and the coastal habitats upon which they depend. For this reason, FDEP is applying to the [USFWS](#) for an ITP pursuant to the Endangered Species Act (ESA) of 1973, for its CCCL Program. The Florida Fish and Wildlife Conservation Commission (FWC) has partnered with FDEP to develop this HCP. The purpose of the habitat conservation planning process associated with an ITP is to ensure that impacts to protected species resulting from authorized legal activities are minimized and mitigated to the maximum extent practicable and to maintain and improve the quality, quantity and function of this habitat over the 25-year term of the ITP.

We are currently completing several of our largest and most complex FBHCP chapters: Assessment of Anticipated Take, Minimization Measures, Mitigation Measures, Implementation (including legislative strategy), and Compliance Monitoring and Reporting. This statewide Florida Beaches HCP is the first of its kind and is currently one of the most complex multi-species HCPs. Open to the public, we encourage stakeholders and other interested parties to participate in our quarterly Steering Committee meetings. The meetings are held in Tallahassee and while attendance in person is welcomed and encouraged, we also have a WebEx option for those wishing to call in for all or part of the meetings. There are only two Steering Committee meetings remaining before the FBHCP is completed and submitted for review and approval. Our next Steering Committee meeting is planned for April 10-11, 2018 and our last will be July 17-18, 2018. For questions or comments about the FBHCP, meetings, documents, updates, etc. please contact Jennifer McGee with FWC, or visit their FBHCP website (info below).

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Shoreline

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CALENDAR OF EVENTS

FSBPA Conferences

February 7-9, 2018

2018 Tech Conference

Edgewater Beach & Golf Resort

Panama City Beach, Florida

September 19-21, 2018

61st Annual Conference

Hyatt Regency Clearwater Beach Resort

Clearwater Beach, Florida

OTHER DATES OF INTEREST

January 9-March 9, 2018

2018 Legislative Session

Tallahassee, FL

January 9-11, 2018

Florida Coastal Mapping Program

St. Petersburg Beach, FL

February 2-4, 2018

21st Annual Florida Marine Turtle Permit Holder Meeting

World Renaissance Renaissance

St. Augustine, Florida

March 20-22, 2018

ASBPA Coastal Summit

Washington, DC

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