

Shoreline

December 2010

news from the Florida Shore & Beach Preservation Association

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Florida's Beach Management Funding Assistance Program-Fiscal Year 2011/2012

USACE Jacksonville District Federal Project Status Updates - December 2010

**12th annual CIRP Technology-Transfer Workshop
February 7-9, 2011
Hyatt Regency Jacksonville**

The 2011 National Conference on Beach Preservation Technology

Full Program Available Now!

By Lisa Armbruster

The Florida Shore & Beach Preservation Association, as host and organizer for the National Conference on Beach Preservation Technology, is extremely pleased to present the program being offered at the 24th annual conference, February 9-11, 2011, at the Hyatt Regency, Jacksonville Riverfront, Florida. Once again, the 2011 technical conference planning committee reviewed a large number of high quality abstracts to arrive at the final program. Please take a look at the full program on the following pages, and you'll see why you won't want to miss this important conference!



**Hyatt Regency
Jacksonville Riverfront**

Some of the program highlights include an outstanding opening session with presentations on beach nourishment, structural solutions to coastal erosion, and sea level acceleration, in addition to the keynote presentation on the Jacksonville Beach nourishment program. For those of you with Congressionally-authorized projects, there will be a timely discussion on the expiration of project life. Dr. Kevin Bodge will return with a Structures 101 lesson first thing Thursday morning. If you didn't attend his Beaches 101 "course" a couple of years ago, you will not want to miss this opportunity! Following Structures 101, Thursday's all day concurrent sessions will provide you with many choices on presentations and topics.
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Palm Beach County DERM Monthly Report



Calendar of Events

About Shoreline

Florida Shore & Beach Preservation Association

Topics include wave effects, multi-purpose reefs, incorporating storms into beach project design, turbidity mixing zone requirements, sediment transport modeling, inlet management, modeling sediment transport patterns, and marine turtles. You will likely have a hard time deciding which sessions to miss amongst these many competing topics. Please plan to stick around for Friday's closing sessions as the program provides more informative and timely presentations. You will hear about beach management program sustainability – a critical topic for those of you with established, long term programs that are challenged in these economic times.

The conference program provides you an excellent opportunity to hear from the private sector, the U.S. Army Corps of Engineers, the Florida Fish and Wildlife Conservation Commission, local governments, and academia. We believe the program speaks for itself, and we hope that you will join us February 9-11 in Jacksonville, Florida, at "America's largest annual conference on beach preservation technology."

Wednesday, February 9, 2011 * Opening Session * 1:00 p.m. to 7:30 p.m.

1:00 p.m.

Welcome

1:10 p.m.

Beach Renourishment in Duval County

Steve Howard, P.E. and Kevin Bodge, Ph.D., P.E., Olsen Associates, Inc., Jacksonville, FL and Tom Martin, U.S. Army Corps of Engineers, Jacksonville District, FL

1:40 p.m.

Sea Level Acceleration Characteristics in the 20th Century: U.S. Gages

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

2:05 p.m.

The Expiration of Project Life For Congressionally Authorized Shore Protection Projects

Erik Olsen, P.E., Olsen Associates, Inc., Jacksonville, FL

2:30 p.m.

Shore Protection Needs vs. Environmental Protection: The U.S. Army Corps of Engineers Denial of the Winthrop Beach Nourishment Program

John Ramsey, P.E., Applied Coastal Research and Engineering, Inc., Mashpee, MA, Joseph Orfant, Massachusetts Department of Conservation and Recreation, Boston, MA, and John Burckardt, P.E., Parsons Brinckerhoff, Boston, MA

2:55 p.m.

Professional Exchange Break, Exhibit Hall



photo courtesy of the USACE Jacksonville District

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Continued - Wednesday, February 9, 2011 * Opening Session * 1:00 p.m. to 7:30 p.m.

3:25 p.m.

South Naples Erosion Control Project

Brett Moore, P.E. and Marc Damon, P.E., Humiston & Moore Engineers, Naples, FL

3:50 p.m.

Initial Beach Response of an Open Coast Erosional Hotspot to Permeable Adjustable Groins

Douglas Mann, P.E., Coastal Planning & Engineering, Inc., Boca Raton, FL

4:15 p.m.

Holiday Isle Emergency Beach Fill Project – Destin, FL

Matthew Trammell, P.E. and Michael Trudnak, P.E., Taylor Engineering, Inc., Jacksonville, FL

4:40 p.m.

A Brief History of Headland Breakwaters for Shore Protection in Chesapeake Bay, USA

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

5:05 p.m.

Adjourn

6:30 p.m.

Welcome Reception, Exhibit Hall



Jacksonville Beach at dawn, photo courtesy of Visit Jacksonville

Thursday, February 10, 2011 * 8:00 a.m. to 8:45 a.m.

COASTAL STRUCTURES 101

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

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Thursday, February 10, 2011 * Concurrent Sessions * 8:50 a.m. to 10:05 a.m.

SESSION A

8:50 a.m.

Wave Effects Near Bathymetric Depressions

Luce Bassetti, Ph.D., Halcrow, Inc., Tampa, FL and Sean O'Neil, Ph.D., Halcrow, Inc., New York, NY

9:15 a.m.

Sand Bar Characteristic Responses to Different Wave Energy Conditions

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

9:40 a.m.

Nearshore Sandbar Evolution in Palm Beach County, Florida

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

10:05 a.m.

Professional Exchange Break, Exhibit Hall

SESSION B

8:50 a.m.

National Shoreline Erosion Control Development and Demonstration Program (Section 227) 63rd St. "Hotspot" Miami Beach Demonstration Project

Donald Ward and John McCormick, Coastal and Hydraulics Laboratory, U.S. Army Engineer Research and Development Center, Vicksburg, MS

9:15 a.m.

Design of Artificial Beaches and Improvement of Rocky Shore Natural Beaches

Juan Font and Alberto Silva, Ph.D., Ingeniería de Consulta Incostas S. A., Caracas, Venezuela

9:40 a.m.

Design, Construction, and Performance of the Boscombe Multi-Purpose Reef

Shaw Mead, Ph.D., Jose Borrero, Ph.D., and John Hearin, ASR Limited, Marine Consulting and Research, Cocoa Beach, FL

10:05 a.m.

Professional Exchange Break, Exhibit Hall

Thursday, February 10, 2011 * Concurrent Sessions * 10:35 a.m. to 12:15 p.m.

SESSION C

10:35 a.m.

2010 Wave Climate of Brevard County, FL: Spatial and Temporal Variability from Post Nourishment Monitoring, Including the 2010 Atlantic Hurricane Season

Charles Cimaglia and Charles Hutcherson, TNC Oceanographic, Melbourne, FL

11:00 a.m.

Swamped – Passing Vessel Impacts for Shoreline Protection

Ronald McPherson, HDR Engineering, Inc., Corpus Christi, TX and Wesley Dortch, P.E., HDR Engineering, Inc., Jacksonville, FL

11:25 a.m.

Brevard County, Florida, Mid-Reach Segment, Hurricane and Storm Damage Reduction Project: A Planning Perspective

Candida Bronson, P.E., U.S. Army Corps of Engineers, Jacksonville District, FL

11:50 a.m.

Considerations for Beach Design: Incorporating Large Storms into Renourishment Projects

Nicole Sharp and Stephen Keehn, P.E., Coastal Planning & Engineering, Inc., Boca Raton, FL

12:15 p.m. **Luncheon**

SESSION D

10:35 a.m.

Assessment of Turbidity Mixing Zone Requirements: A Case Study of the 2010 North Boca Raton Renourishment

Peter Seidle, P.E., Applied Technology and Management, Inc., West Palm Beach, FL and Jennifer Bistyga, City of Boca Raton, FL

11:00 a.m.

The Use of Sidescan Sonar and Acoustic Classification for Benthic Habitat Mapping; an Alternative Methodology for Environmental Monitoring

Beau Suthard, P.G. and Christopher Dougherty, Coastal Planning & Engineering, St. Petersburg, FL and Jeffrey Andrews, PSM CH, Coastal Planning & Engineering, Boca Raton, FL

11:25 a.m.

Indian River County Sector 3 Restoration Phase 1: Comparison of the Predicted and Post-Construction Equilibrated Toe of Fill and an Assessment of the Upland Sand Fill

Walker Dawson, Coastal Technology Corp., Melbourne, FL and Tem Fontaine, Coastal Technology Corp., Vero Beach, FL

11:50 a.m.

Indian River County Sector 7 – Update and Assessment after 3-Years of Post-Physical and Biological Construction Monitoring

Michael Jenkins, Ph.D., P.E., Applied Technology and Management, Inc., West Palm Beach, FL and James Gray, Jr., Indian River County, Vero Beach, FL

12:15 p.m. **Luncheon**

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Thursday, February 10, 2011 * Concurrent Sessions * 1:30 p.m. to 3:10 p.m.**SESSION E**

1:30 p.m.

Nearshore Field Study at Grays Harbor, WA

Irene Watts and Alejandro Sanchez, Coastal and Hydraulics Laboratory, U.S. Army Engineer Research and Development Center, Vicksburg, MS, and Ken Connell and Philip Osborne, Golder Associates, Inc., Redmond, WA

1:55 p.m.

Sediment Transport Modeling and Application for Ocean Beach and San Francisco Bight, CA

Honghai Li and Lihwa Lin, Coastal and Hydraulics Laboratory, U.S. Army Engineer Research and Development Center, Vicksburg, MS and Frank Wu, Lisa Andes, and James Zoulas, U.S. Army Corps of Engineers, San Francisco District, CA

2:20 p.m.

Nearshore Dredged Material Placement Pilot Study at Noyo Harbor, CA

Lihwa Lin, Honghai Li, and Mitchell Brown, Coastal and Hydraulics Laboratory, U.S. Army Engineer Research and Development Center, Vicksburg, MS and Frank Wu and Lisa Andes, U.S. Army Corps of Engineers, San Francisco District, CA

2:45 p.m.

Evaluation of Placement Alternatives for Matagorda Ship Channel Bottleneck Removal

James Rosati III, and Ashley Frey, Coastal and Hydraulics Laboratory, U.S. Army Engineer Research and Development Center, Vicksburg, MS

3:10 p.m. **Professional Exchange Break, Exhibit Hall****SESSION F**

1:30 p.m.

Inlet Navigation Channel Shoaling

Julie Dean Rosati, Ph.D., P.E., Coastal and Hydraulics Laboratory, U.S. Army Engineer Research and Development Center, Mobile, AL and Nicholas Kraus, Ph.D., Coastal and Hydraulics Laboratory, U.S. Army Engineer Research and Development Center, Vicksburg, MS

1:55 p.m.

Inlet Management Strategies for East Pass, Destin, FL: Past, Present, and Future

Thomas Pierro, P.E., Christopher Day, P.E., and Norman Beumel, Coastal Planning & Engineering, Inc., Boca Raton, FL

2:20 p.m.

Two Inlets and an Island

James Marino, P.E., Coastal Technology Corp., Debary, FL, Cliff Truit, Ph.D., P.E., Coastal Technology Corp., Sarasota, FL, and Laird Wreford and Spencer Anderson, P.E., Sarasota County, FL

2:45 p.m.

Sebastian Inlet District Dredged Material Management Area and Tide Pool Restoration Projects

Bryan Flynn, P.E. and Jeffrey Tabar, P.E., PBS&J, Tampa, FL, S. Marie Romah, P.E., PBS&J, Melbourne, FL, and Martin Smithson, Sebastian Inlet District, FL

3:10 p.m. **Professional Exchange Break, Exhibit Hall****Thursday, February 10, 2011 * Concurrent Sessions * 3:40 p.m. to 5:20 p.m.****SESSION G**

3:40 p.m.

Challenges in Calibrating and Verifying a MIKE21 Model for Evaluation of Shoreline Stabilization Alternatives

Kristen Odronec and Michael Kabling, Ph.D., P.E., Taylor Engineering, Inc., Jacksonville, FL

4:05 p.m.

Scientific Approach to Design, Modeling and Implementation of Protection Measures in the Fast Currents of Inlets

Samantha Danchuk, Ph.D., Thomas Campbell, P.E., and Christopher Day, P.E., Coastal Planning & Engineering, Inc., Boca Raton, FL

4:30 p.m.

Development and Application of Mid- and High-Rise Building Damage Functions in Beach-fx

Michael Krecic, P.E. and Jon Hall, Taylor Engineering, Inc., Jacksonville, FL and Christopher Jones, P.E., Durham, NC

4:55 p.m.

Modeling Sediment Transport Patterns and Pathways in Mixed-Energy Tidal Inlet Systems

Edwin Elias, Ph.D., Deltares, Delft, the Netherlands and U.S. Geological Survey, Menlo Park, CA and Maarten van Ormondt, Deltares, Delft, the Netherlands

5:20 p.m. **Adjourn****SESSION H**

3:40 p.m.

Status Update on Three Regional Biological Opinions in South Atlantic Division

Terri Jordan-Sellers, U.S. Army Corps of Engineers, Jacksonville District, FL

4:05 p.m.

Marine Turtles: Species-Specific Response to Beach Nourishment

Robbin Trindell, Ph.D., Meghan Koperski, and Kelly Roberts, Florida Fish and Wildlife Conservation Commission, Tallahassee, FL

4:30 p.m.

Assessing the Effects of Beach Restoration on Sea Turtles Residing in Adjacent Nearshore Habitats – Indian River County, Florida

Jonathan Gorham, Ph.D., Michael Bresette, and Richard Herren, Inwater Research Group, Inc., Jensen Beach, FL, Peter Seidle, P.E., Applied Technology and Management, Inc., West Palm Beach, FL, and James Gray, Jr., Indian River County, FL

4:55 p.m.

The Restoration of Historic Deadman's Island

Heather Reed, Ecological Consulting Services, Inc., Pensacola, FL

5:20 p.m. **Adjourn**

Friday, February 11, 2011 * Closing Session * 8:10 a.m. to 12 noon

8:10 a.m.

Monitoring Shore Protection and Navigation Projects Using Three-Dimensional Spatial Data Along Florida's Panhandle

Lauren Dunkin, Coastal and Hydraulics Laboratory, U.S. Army Engineer Research and Development Center, Kiln, MS

8:35 a.m.

FDEP Bureau of Beaches and Coastal Systems Monitoring and Reporting Guidelines

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

9:00 a.m.

Beach Management Program Sustainability

Christopher Creed, P.E., Olsen Associates, Inc., Jacksonville, FL and Scott Liggett, P.E., Town of Hilton Head Island, SC

9:25 a.m.

Shore Protection through Alternative Energy Devices

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

9:50 a.m.

Professional Exchange Break, Exhibit Hall



*Jacksonville Beach Pier
photo courtesy of Visit Jacksonville*



10:20 a.m.

Simulating the Fate of Sediment Plumes Discharged from Mississippi and Atchafalaya Rivers: An Integrated Observation and Modeling Study for the Louisiana Shelf, USA

Mohammad Nabi Allahdadi, Felix Jose, Ph.D., Gregory Stone, Ph.D., and Eurico D'Sa, Ph.D., Department of Oceanography and Coastal Sciences, Coastal Studies Institute, Louisiana State University, Baton Rouge, LA

10:45 a.m.

Coastal Processes Analysis for Vilano Beach, St. Johns County, FL

Hande Caliskan, Christopher Bender, Ph.D., P.E., and Michael Krecic, P.E., Taylor Engineering, Inc., Jacksonville, FL and Jason Engle, P.E., U.S. Army Corps of Engineers, Jacksonville District, FL

11:10 a.m.

Quantifying Temporal Variations in Local Sediment Budget for Sand Resource Management at Sebastian Inlet, FL

Gary Zarillo, Ph.D. and Florian Brehin, Department of Marine and Environmental Systems, Florida Institute of Technology, Melbourne, FL

11:35 a.m.

Regional Sediment Management – Application of a Coastal Numerical Model at the St. Johns River Entrance

Steve Bratos, U.S. Army Corps of Engineers, Jacksonville District, FL

12:00 noon

Conference Adjourns

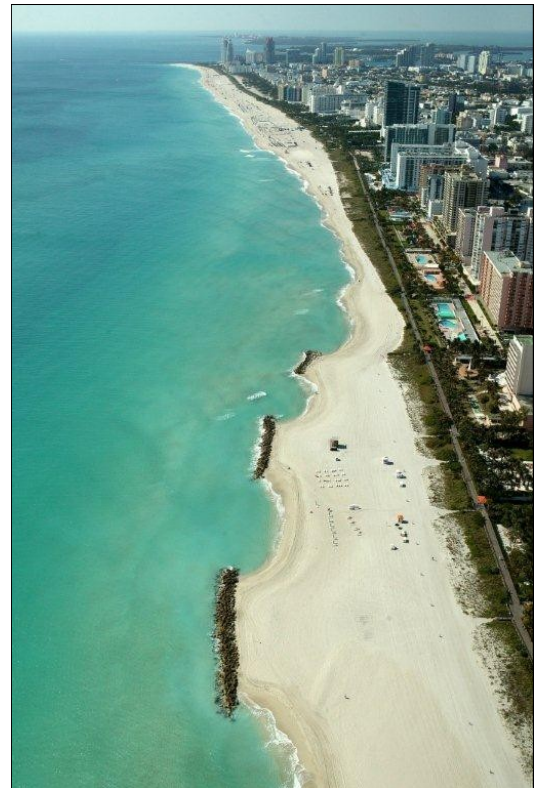
THE BEACHES 101 SERIES: Coastal Structures

Dr. Kevin Bodge, Olsen Associates, Inc., Jacksonville Florida

Thursday, February 10, 2011 – 8:00 to 8:45 AM

(Plenty of Coffee Available)

For laymen or those who might enjoy a brief “refresher” presentation. The class will describe how coastal structures – groins, breakwaters, revetments/seawalls – can both control and cause erosion of our beaches. A historical perspective of the use of such structures will highlight a time when they were virtually banned as well as why their cautious use is reemerging today. Useful or harmful?



Hollywood Beach, Florida 1960's

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12th Annual CIRP Technology-Transfer Workshop Modeling and Decision-Support Tools for Coastal Inlets

Sponsored by



US Army Corps
of Engineers



February 7-9, 2011

Hyatt Regency Jacksonville-Riverfront, Jacksonville, Florida

The Coastal Inlets Research Program (CIRP) is pleased to celebrate our 12th Annual Technology-Transfer Workshop in conjunction with the 24th Annual National Conference on Beach Preservation Technology. The CIRP workshop will be held just prior to the Tech Conference, from Monday, February 7th through Wednesday, February 9th (half day), 2011.

This workshop will feature hands-on applications for several CIRP products. The CIRP workshop is structured to maximize hands-on applications of many of these CIRP products, with a focus on CMS and GenCade, **Personal Computers pre-loaded with software will be provided.**



For detailed information, including the agenda and to register online for the workshop, visit www.fsbpa.com/workshop.htm

Workshop Registration

Registration fee: **\$275**

[Click here to register](#)

Hotel Information

Hotel reservations for the Hyatt Regency Jacksonville Riverfront can be made online. The group rate is \$125 single/double. For complete details, visit

www.fsbpa.com/techhotel.htm



CIRP workshop in New Orleans, May, 2010

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“Tech Conference” Information February 9-11, 2011

Don't forget **early registration** is only available **through January 14, 2011**. There are 3 ways to register:

- 1. ONLINE:** www.FSBPA.com
- 2. MAIL:** Form and payment to:
FSBPA
PO Box 13146
Tallahassee, FL 32317-3146
- 3. FAX:** Form and credit card information to (850) 201-6782
[Print the conference registration form](#)



If you would rather register by fax or mail, click on the link above to open the registration form in a pdf file format. Type your information directly into this pdf file and print. Then simply mail or fax your form to the address or number listed above.

Hotel reservations should be made directly with the hotel, the Hyatt Regency Jacksonville Riverfront, Jacksonville, Florida. [Click here to make your reservation online.](#)

Standard rooms, single or double are \$125 with complimentary self-parking and complimentary WIRED internet access for hotel guests.

To ensure room availability **reservations should be made by January 14, 2011.**

Finally, should you have any interest in conference sponsorships, exhibits, advertisements, or questions regarding conference or hotel registration, please contact us at (850) 906-9227 or mail@fspba.com.



We hope you will join us February 9-11, at “America’s largest annual conference on beach preservation technology.”

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2010 – Just the Highlights and Low Points

By Debbie Flack

For Florida's beach program there are two highlights that dominated 2010 accomplishments. None was more significant historically, transcending any given year or event, than the unanimous June 17 United States Supreme Court decision, *Stop the Beach Renourishment, Inc., v. Florida Department of Environmental Protection, Walton County, and City of Destin*. The Court concluded that the Florida Supreme Court, in its ruling supporting the state's program for the restoration of our sandy beaches, did not take private property without just compensation in violation of the Fifth and Fourteenth Amendments of the United States Constitution. A contrary decision could have severely

wounded, if not dealt a death blow, to the future of the program. Instead, the 8-0 decision affirmed what many of us already knew – Florida's beach management program achieves a delicate and reasoned balance between public and private interests, provides recreational beaches for all to enjoy as well as upland private property protection, and supports our tourism-based economy. FSBPA's supporting role in this litigation, because of the moral and financial support of many of the Association's members, is something to celebrate as well!

We should also appreciate that Florida's beach program survived the 2010 Legislative Session. The level of funding for statewide beach projects secured for the current fiscal year (FY 10-11) is really quite exceptional given the economy, budget limitations, and major shortfalls in the program's dedicated funding source (the documentary stamp tax). The final appropriation was \$16.5 million for full state funding of 6 major beach projects and 1 inlet management project, plus an additional \$5.3 million for the operations of the Bureau of Beaches and Coastal Systems. Procedurally there was welcomed news as well – the Ecosystem Management and Restoration Trust Fund that receives beach dollars was reenacted as part of the budget implementing bill. It did not come easy, and certainly wasn't pretty, but given the early session grim prognosis for beach funding, there is every reason to recognize this accomplishment as a "highlight of the year." Let's not forget that success can be fleeting, especially already knowing that the 2011 Session will be far more difficult.



Mark Wilson, Getty Images

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In recognizing the successes of the year, it is appropriate to just briefly focus on the Association itself. FSBPA has successfully weathered the transition from a contract-managed organization by a single firm over many years to a self-administered non-profit. While certain that not everything has been for the better, increased accountability, Board involvement, consultant expertise as well as two very successful 2010 conferences speak well of the effort. Improved conference attendance and general and BeachWatch membership increases were unanticipated benefits. Your continued member support is not taken for granted and is greatly appreciated by the Board of Directors, Executive Committee, and staff of FSBPA.

While a bit off-topic, it just seems appropriate to recognize a rather remarkable accomplishment of one of FSBPA's BeachWatch Member Governments. On November 2nd, the voters of Captiva passed a funding referendum on the 2013-14 planned beach nourishment project with an overwhelming 77% in favor.



LEAVE YOUR FOOTPRINT IN THE SAND

The Captiva Erosion Prevention District (CEPD), Commissioners and staff alike, spent countless hours educating property owners on the importance of maintaining the Island's restored beach. The results are indeed a highlight of 2010. Thank you, and FSBPA's congratulations and appreciation to the CEPD!

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When we consider the low points for the coastal environment, it is a no-brainer in the top spot for not only 2010 but perhaps our lifetimes – the Deepwater Horizon oil spill disaster with its epic damages to Gulf Coast ecosystems, indeterminable fiscal impacts, and immeasurable stress and frustration. We are fortunate that raw emotions are slowly being replaced with practical solutions and that while we may be dealing with oil contamination on our beaches for some time, we can all agree that it could have been far worse for Florida’s sandy shoreline. FSBPA has tried to keep focus on our mission goal of beach preservation and the specific needs of our Northwest Florida government members. We have tried to bring and subsequently keep the issues of offshore sand source assessment, sand remediation and beach renourishment at the forefront. We are also trying to reinforce local government efforts to make sure these needs are adequately considered and/or funded as part of the NRDA (Natural Resource Damage Assessment) process, BP’s Gulf Coast Recovery Organization, and that the restoration and nourishment of Northwest Florida’s beach projects is the recipient of Clean Water Act fines. Let’s not forget how challenging and frustrating the incident command structure was for our local communities. This acknowledgement comes from virtually everyone on all sides of the disaster – governmental entities and private interests have a responsibility to learn from this experience. We never have to accept why this happened, but must take this opportunity to overcome it.



*photo courtesy of Cameron Cooper, Director,
Office of Legislative Affairs
Florida Department of Environmental Protection*

It is becoming painfully obvious that Florida’s nationally-recognized beach program is seriously threatened financially. Historical success has been a direct result of an effective intergovernmental funding partnership that no longer seems to enjoy political favor or economic justification. I have already said enough about the challenges to state funding, especially the once legislatively-intended \$30 million annually for beach projects. You can’t bleed a stone, and the program’s dedicated funding source, the documentary stamp tax, leads the state revenue losers and continues to be a laggard in terms of recovery. Survival rests with efforts to revert and reappropriate existing beach dollars, and is dependent upon a handful of lawmakers securing non-recurring General Revenue. Both options will be extremely difficult to execute in 2011. Of growing concern is our federal partner, the major funding partner for all of Florida’s Congressionally-authorized beach projects. Funding success in the past has been measured by a rare project inclusion in the Corp’s budget, and frequent Congressional-adds by very supportive members of Florida’s Congressional Delegation. Inarguably this ad hoc approach has had success but certainly is not a model for effective planning or execution. Now earmarks, our historical way of funding the beach program, are off the table at least in the House of Representatives. Corps Districts and Administrations have never consistently budgeted for shore-protection projects. Now they have good reason not to— deficit reduction proposals will clearly focus on non-defense low-priority Corps construction projects. Many will argue that pumping offshore sand to rebuild eroded beaches is a cost that should be borne by those that are perceived to benefit the most – states, coastal communities

and upland property owners! Sadly, it is the third of our beach partners – local government project sponsors — that is suffering the most from the current economy, the downturn in ad valorem tax revenues, and the growing need for nondiscretionary services. Yet, it is local government that remains the most committed to maintaining the health of Florida’s beaches. Let’s hope this prognosis is at the “low point” and this intergovernmental funding partnership survives intact, only to again prosper under the realization of the importance of our beaches to tourism and economic recovery. Maybe the believers on the Gulf Coast dealing with the oil spill will be heard.

There are a few existing “beach” issues whose outcomes remain uncertain as we approach 2011:

- To what extent will the state continue to cost-share with local governments for post-construction monitoring of beach projects? Will agencies carefully examine permit-imposed monitoring requirements? Or will the answer be to continue to shift the financial burden for monitoring to local government sponsors?
- Will agencies willingly examine regulatory processes with an emphasis on timeliness, eliminating duplication of effort, improved performance and cost-effectiveness? How will agency rule-making be affected by HB 1565 which took effect on November 17? Is permit-streamlining, emergency permitting, and rule-making going to be systematically addressed from within, or leave it to chance and perhaps a political sledge hammer?

No doubt looking back at the year’s highlights and accomplishments as well as the low points better prepares us as beach advocates for the coming year and the challenges ahead. It is the Association’s intent to continue its role as a reasoned and effective voice in 2011 on beach issues in Tallahassee and with members of Florida’s Congressional Delegation. We also hope to be a rallying point on behalf of the statewide beach program, bringing together each of our BeachWatch local governments, their in-house and contract lobbyists, other interest groups and environmental organizations, the Florida Association of Counties and League of Cities.

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Legislative Update

By Debbie Flack (11/22/10)



The Organization Session of the Florida Legislature took place, as constitutionally-required, on November 16. 54 new members were sworn in – 41 in the House and 13 in the Senate. With one in every three members being new, the lack of institutional history is an increasing concern, which translates into a growing void in member familiarity with Florida's successful beach management program. Republican leadership promises the most conservative Legislature in 100 years. The veto-proof majorities in the House and Senate exercised their powers with 8 veto overrides in special session on the afternoon on the 16th.

A quite impressive display when you consider this represents the first veto override in 23 years.

There are already a number of certainties as 2011 approaches. There will be no new taxes. State government is going to spend considerably less. Revenue shortfalls, largely attributable to reductions in federal stimulus dollars and Medicaid enrollment increases, may require as much as \$3.2 billion in state budget cuts for FY 11-12. A 15% agency "budgeting" cut exercise is already underway. FY 12-13 is expected to be even worse with a \$5 billion projected budget shortfall. Couple this with significant program cuts already absorbed over the past few years, and no discretionary program will be spared.

As recently discussed with our BeachWatch member governments, I can't believe there is even a remote possibility that the statewide beach management program can escape — the question is can it survive. Challenging at best, it is our mutual responsibility to see that it does.

A number of discretionary programs, including long-established environmental/resource management programs, have gone without funding or received substantially less funding over the past two years. At least for the time being, the beach program with current year funding of almost \$ 22 million, given its dedicated funding source has been down as much as 75%, has fared exceptionally well. It is not possible in the near future to maintain this level of funding without non-recurring General Revenue, and projections for the upcoming session suggest these dollars will be in very short supply!

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Elsewhere in this issue of *Shoreline*, The Department of Environmental Protection discusses local government beach management funding requests for 2011-12 which total \$105 million. One has to assume this list of beach restoration and nourishment projects and a separate list of inlet management projects when they ultimately reach the Legislature will not be given serious consideration, if they even see the light of day. The separate lump-sum amount the Department and Governor request for statewide beach projects in submitted budget requests is the best starting point we can anticipate— and I can promise you it will not be \$100 million plus. Let's just hope it is not a repeat of last year which only included funding for the Bureau. There will be far more discussion and detail on the Association's advocacy strategy for the coming year in the next few issues of *Shoreline*. It is enough to say for now that if our immediate goal is to insure program survival, we will need to start narrowing in on a handful of key projects that offer the timely opportunity to secure significant (percent of total cost) federal/local matching dollars and are expected to go to construction before the end of 2012 – performance, leveraging of matching dollars, and sand on the beach!



FSBPA will focus and coordinate our efforts with the Florida Association of Counties, League of Cities, vested interests, and most importantly our local government members. We will know more after the December 6th Committee Week, two weeks of meetings in January, and three more committee weeks in February. Usually appropriations dominate the February agendas and the teas leaves are read. The 2011 Session convenes on March 8.

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FLORIDA'S BEACH MANAGEMENT FUNDING ASSISTANCE PROGRAM- FISCAL YEAR 2011/2012

By Paden E. Woodruff

Florida Statutes, specifically Sections 161.091, 161.101, 161.143 and 161.161 direct the Department of Environmental Protection (DEP) to prepare and implement a comprehensive, long-range statewide beach management plan. The Beach Management Plan consists of the Strategic Beach Management Plan (SBMP) and the Long-Range Budget Plan and a prioritized list of beach restoration/nourishment projects and a list of inlet sand bypassing/inlet management plan implementation projects. The SBMP has been developed in coordination with the U.S. Army Corps of Engineers and Local Sponsors and contains strategies for erosion control activities at critically eroded beaches and inlets. Projects must have a clearly identifiable beach management benefit consistent with the SBMP to be eligible for state funding assistance.



Currently there are 398.6 miles of sandy shoreline designated as critically eroded. The Legislature dedicated a portion of the Ecosystem Management and Restoration Trust Fund for beach management starting in 1998. To date \$489.78 million has been appropriated to cost share with local governments on local/state and federally authorized projects, with each level of government providing about one-third of the cost of the program. Since the program began and with the dedicated funding source, over 218 miles, about 55 percent, of the state's critically eroded shoreline has been restored and maintained.

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The funding requests for FY 2011/2012 consist of eighty-one different projects, which total over \$105 million. The prioritized list of beach erosion control projects contains two lists; the Beach Restoration and Nourishment Projects and the Inlet Sand Bypassing/Inlet Management Plan Implementation Projects. Each list is arranged in priority order, based on procedures outlined in the Statute and Chapter 62B-36, Florida Administrative Code. Projects have been evaluated by Department staff, based on consistency with the SBMP, permitting status, readiness to proceed with the proposed funding phase, and the appropriateness of the amount of funding requested.

The comprehensive, long-range, statewide program is based on the following principles:

- Maximize the infusion of beach-quality sand;
- Implement projects that significantly contribute to the resolution of beach erosion issues;
- Improve the longevity and reduce the frequency of nourishment;
- Utilize a regional approach to ensure geographic coordination and sequencing;
- Reduce mobilization and demobilization costs.

There are sixty-eight beach restoration/nourishment projects on the beach projects list for FY 2011/2012 totaling over \$88 million.

Amendments to Section 161.143, F.S. during the 2008 legislative session provided the following guidance on funding for projects:

- If funds are made available to the feasibility and design category, at least fifty percent of the funds appropriated will be made available for inlet management projects which involve the study, design or development of an inlet management project; and,
- If the local sponsor indicates that funds cannot be utilized or obligated during FY 2011/2012 for a beach restoration/nourishment project the Department will apply those funds to inlet management projects in accordance with Section 161.143(5)(c), F.S.

The detailed prioritized list of beach restoration/nourishment projects will be provided in this newsletter at a later date. Most of the project requests are for construction or design/construction. These projects seek to leverage federal funding to place material on the beach in order to maximize the “bang for the buck” utilizing state dollars. It is interesting to note that for many of the projects, the federal share is actually Federal Emergency Management Agency (FEMA) funding for storm recovery nourishment. For a sneak preview, the following projects are some of the larger construction projects at the top of the list:

Dade County Beach Nourishment

Anna Maria Island Beach Nourishment

Martin County Shore Protection Project

Ft. Pierce Shore Protection Project

Delray Beach Nourishment

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St. Johns County Shore Protection Project

Pensacola Beach Nourishment (federal share is FEMA funding)

Jupiter/Carlin Shore Protection Project

Jupiter Island Beach Nourishment (federal share is FEMA funding)

Funding these projects would require approximately \$25 million in state funding appropriations. This state funding would leverage approximately \$40.6 million in federal funding. It is important to note that there are projects at the top of the list that are for design and/or feasibility that are not listed above but would be included with the \$25 million appropriation. This figure does not include the amount for post-construction monitoring which also leverages federal funding. It should also be noted that the \$25 million is for discussion purposes for this "Shoreline" article and represents less than one quarter of the total amount of funding requested in the Local Government Funding Request.

Because of the potential adverse impacts to adjacent shorelines caused by the navigation improvements at our coastal inlets the Department has historically cost shared with local sponsors on activities to mitigate those adverse impacts. Previously, inlet management activities were conducted in accordance with the provisions contained in Section 161.161, F.S. in order to evaluate the impacts on adjacent properties and to recommend mitigation measures. Activities include inlet sand bypassing, modifications to channel dredging, jetty redesign, jetty repair (sand tightening), disposal of dredged material, and the development, revision, and adoption of an inlet management plan.

Funding for inlet management activities is necessary to implement the mitigation actions recommended in the Inlet Management Plans (IMP) or the SBMP. The adopted Inlet Management Plans are incorporated into the SBMP by reference along with other strategies for inlet management. Feasibility studies conducted by local sponsors, federal and state studies and reports, and the federal reports authorizing shore protection projects are also incorporated by reference in the SBMP.

There are thirteen inlet projects on the FY 2011/2012 Inlets list. These projects total over \$17 million in requested state funding share. The funding priorities are established pursuant to Sections 161.101(14), 161.142, 161.143 and 161.161(1)(b), F.S.

In 2008 the Legislature created Section 161.143, F.S. to strengthen the State's commitment to managing inlets. The DEP is directed to develop and maintain sediment budgets for each inlet and ensure beach quality sand is placed on adjacent eroding shorelines. It also establishes funding priorities and ranking criteria for inlet projects and requires the Department to create a separate prioritized list for inlets. Section 161.143, F.S. requires the following:

- At least ten percent of the total appropriation will be used for the three highest ranked inlet projects;
- At least fifty percent of the funds appropriated for the feasibility and design category will be made available for inlet projects which involve the study, design or development of an inlet management project;
- Inlet projects may receive seventy-five percent state cost share for inlet activities.

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The prioritized list of inlet projects will be provided in a later issue of this newsletter. The following six projects are for construction, design and monitoring. Three of the top six utilize federal funding:

St. Lucie IMP Implementation (utilizes federal funding)

Sebastian IMP Implementation

Port Canaveral IMP Implementation

Lake Worth IMP Implementation (utilizes federal funding)

South Lake Worth IMP Implementation

Ponce de Leon IMP Implementation (utilizes federal funding)

Funding the above inlet projects would require approximately \$13 million in state funding but would leverage approximately \$14.275 million in federal funds.

This year's Local Government Funding Request is the largest request to date and reflects the greater number of projects and miles restored and maintained, as well as the compounding of requests from local governments due to the lack of funding in previous years and the backlog created. Hopefully, as the economy recovers and additional funding becomes available this backlog will be addressed. I know everyone is anxious to move forward with their projects to ensure that the beach and dune system is maintained as a healthy and vibrant component of our continued economic recovery efforts for the citizens of Florida and our guests.



Reconstructed South Lake Worth Inlet Bypass Plant nearing completion

Federal Project Status Updates - October 2010



US Army Corps
of Engineers

FEASIBILITY STUDIES:

- **St. Johns County** –Jacksonville District received Federal Stimulus funding to facilitate this study. Funding was utilized to perform Geotechnical Investigations and to calibrate the shoreline change model, GENESIS. Agency Technical Review (ATR) of chapters 1-5 of the feasibility report has been completed and was submitted to Headquarters and is awaiting their review comments. The next milestone will be to conduct a meeting with Division, HQ, County, and State to document the without project conditions. Economic modeling work with Beach-fx has been completed for the without project conditions. These conditions, along with preliminary alternatives for hurricane and storm damage reduction, are anticipated to be presented to SAD and Headquarters during a Feasibility Scoping Meeting (FSM) in spring of 2011.
- **Flagler County** – Economic modeling work with Beach-fx to identify the without project future conditions is currently completed and has been submitted to Headquarters and the District is addressing their comments. The without project conditions, along with preliminary alternatives for hurricane and storm damage reduction, are anticipated to be presented to the SAD and Headquarters during a Feasibility Scoping Meeting (FSM) in February 2011. Geotechnical investigations conducted earlier this year were inconclusive and new investigations will be initiated.

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- **St. Lucie County** – Jacksonville District is continuing data collection within the study area (R77 to R115). Economic modeling setup in Beach-fx is currently being done, which will identify the without project future conditions. First Floor Elevation data is complete for the study reach and Structure valuation has been completed. SBEACH has also been calibrated; all of this data will be used to set up Beach fx for model runs that commenced in September and likely run through December. Documentation of existing and future without project conditions in the study area is ongoing. The Team is working towards a Feasibility Scoping Meeting (FSM) date of August 2011, for South Atlantic Division (SAD) and Headquarters review of existing and future without project conditions and the first 5 chapters of the feasibility report. The Sponsor is moving ahead with planning for a more immediate non-Federal initial nourishment project. The Federal feasibility study is separate and will investigate feasibility of many alternatives, including initial and periodic nourishment. The non-Federal Sponsor is conducting environmental surveys and initiating an environmental impact assessment.

OTHER MAJOR PLANNING REPORTS:

- The **Brevard County Mid-Reach General Reevaluation Report (GRR)** team has completed the ATR of the Final Report. The Final GRR/SEIS has been submitted to Headquarters for their final review/approval. The final report will then go to the Assistant Secretary of the Army for final approval.
- **Jupiter/Carlin Shore Protection Project** - Palm Beach County has started a 934 report/NEPA document for Jupiter/Carlin Segment to extend Federal participation for the next renourishment. The Sponsor will be running the Beach-fx model. Federal participation has expired under the existing cost sharing agreement and congressional funds were not appropriated for this project segment during fiscal year 2010. Corps' involvement continues to be to support the sponsor in their preparation of the Section 934 report. The report is expected to be submitted by Sponsor for a first round review by Jacksonville District in November 2010.

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- The **Draft Ft. Pierce Shore Protection Project GRR** seeks an additional 50 years of Federal participation in the project as well as the inclusion of groins to the project area. The sponsor is currently running Beach-fx, and the GRR is undergoing further evaluation to establish the tentative plan. A Draft GRR is expected to be completed by the Sponsor in May 2011, and then will begin undergoing reviews by Jacksonville District.
- **Broward County Shore Protection Project - Segment I** (north county line to Hillsboro Inlet) – Integrated GRR and NEPA document – Preparation of the GRR and NEPA document for initial construction of this segment has been initiated by the Jacksonville District. SAJ has initiated Beach-fx data collection and shoreline biological surveys.
Segment II – GRR Addendum and NEPA document – Sponsor has initiated their GRR Addendum for the upcoming renourishment. **Segment III** – A Draft Detailed Design Report (DDR) has been completed to address the subsidence/erosion of the beach fill at the northern end of Segment III under the authority for the Shore Protection Project.
- In **Dade County**, work was funded for a **Section 227 Project** at 63rd Street in Miami and was reinitiated in August 2008. A design and build contract is being evaluated in cooperation with the Department of Environmental Resources Management (DERM) and Reef Innovation, Inc. Genesis modeling is underway to determine the minimum structural footprint and the exact project location. NEPA documentation and WQC are underway, with the Joint Coastal Permit to be submitted upon completion.
- The **Martin County Draft Limited Reevaluation Report (LRR) and Supplemental Environmental Impact Statement (SEIS)** evaluates impacts to the Benefit/Cost ratio of the approved Shore Protection Project due to the use of a new borrow area. Turtle-friendly beach construction templates are also being evaluated for use on this project. The SEIS has been approved for public release from South Atlantic Division (SAD). The Notice of Availability was published in the Federal Register on 5 November 2010, and the draft SEIS public meeting is scheduled for 16 December 2010.

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REGIONAL SEDIMENT MANAGEMENT:

- Comments on the **Dade County Letter Report** have been provided to Jacksonville District from Office of Water Project Review (OWPR). OWPR is seeking additional information on the unavailability of domestic sand sources as well as further description of potential non-domestic sand sources.

CONSTRUCTION:

- **Duval County Shore Protection Project** - A renourishment contract for approximately 700,000 cubic yards is scheduled to be advertised in the early 2nd quarter of 2011.
- In October Southwind Construction completed renourishment of the Treasure Island and Long Key segments of the **Pinellas County Shore Protection Project**. Approximately 250,000 cy were placed at a cost of \$5.2 million.



Upham Beach following construction

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CALENDAR OF EVENTS

FSBPA Conferences

February 9-11, 2011

National Conference on Beach Preservation Technology

Hyatt Regency Jacksonville Riverfront
Jacksonville, FL

September 14-16, 2011

FSBPA Annual Conference

Eden Roc Renaissance Miami Beach
Miami Beach, FL

OTHER DATES OF INTEREST

Florida Legislative Session

Convenes March 8, 2011, scheduled to adjourn
May 6, 2011

February 7-9, 2011

12th annual CIRP Workshop

Hyatt Regency Jacksonville Riverfront
Jacksonville, FL

March 1-3, 2011

ASBPA Coastal Summit

Reagan Center, Washington, DC

May 2 - 6, 2011

Coastal Sediments '11

Miami Regency Hyatt
Miami, Florida

Join us
February 9-11, 2011
24th Annual
National Conference on
Beach Preservation Technology

Conference Registration
Early Registration ends January 14, 2011

Hotel Information
Reservation deadline is January 14, 2011

**12th annual
CIRP Workshop**

Sponsored by
U.S. Army Corps of Engineers
Coastal Inlets Research Program

**“Modeling and Decision-Support Tools
for Coastal Inlets”**

February 7-9, 2011

**Hyatt Regency Jacksonville Riverfront
Jacksonville, Florida**

For more information visit,

www.fsbpa.com/workshop.htm

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