

Shoreline

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August-September 2012

news from the Florida Shore & Beach Preservation Association

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**FDEP Bureau of Beaches &
Coastal Systems
2012 Up-date to Critically
Eroded Beaches
Designations**

**2013 Tech Conference
February 13-15
Omni Jacksonville
Call for Papers**

Deadline is October 5, 2012

ANNUAL CONFERENCE

September 26-28, 2012 | Waldorf Astoria | Naples, Florida

IMPORTANT LINKS

[Hotel Information](#)

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Early conference registration and the guaranteed hotel rate of \$139 are available until **September 5, 2012**, so don't delay, make your reservations today! For complete conference details, visit www.fsbpa.com/annual.htm.

For registered guests at the hotel, there will be complimentary self-parking and valet parking will be offered at a discounted rate of \$12 per day. Also wireless internet connectivity will be complimentary in your guest room.

The conference program has another great line-up this year. Please take time to review the program on the following pages. There will be a number of panel discussions as well as individual presentations. The major focus continues to be on issues and concerns that may impact the sustainability of Florida's beach program in the future.

Continued on next page



**Waldorf Astoria
Naples, Florida**

FSBPA is most grateful for the generosity of conference sponsors and exhibitors which have allowed us to add to the enjoyment of all attendees, while maintaining long-established registration fees and free amenities.

The conference program is available on the following pages.

Check the conference website at www.fsbpa.com/annual.htm for the most current program regarding changes, additions, and minor time adjustments. We will also be sending out periodic email blasts.



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Aerial view of Naples, Florida Pier

Photo courtesy of Coastal Engineering Consultants, Inc.

Palm Beach County DERM Monthly Report



Calendar of Events

About Shoreline

Florida Shore & Beach Preservation Association

56th FSBPA Annual Conference Speaker Program

Wednesday, September 26, 2012

10:00 a.m. to 11:00 a.m.

BEACHES 101: An Introduction to How Beaches Work

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

1:00 p.m.

Welcome

Mayor John Sorey, City of Naples, and Chairman Fred Coyle, Collier County Board of County Commissioners, Naples, FL

Opening

Don Donaldson, P.E., Chair of FSBPA and County Engineer, Martin County, Stuart, FL

1:30 p.m.

Collier County: Comprehensive Beach Management Achievements Over the Past Decade

J. Gary McAlpin, P.E., Director, Coastal Zone Management, Collier County, Naples, FL, and Stephen Keehn, P.E., Senior Coastal Engineer, Coastal Planning & Engineering, Inc., (A Shaw Group Company), Boca Raton, FL

1:55 p.m.

Collier County Tourism and the Value of Beaches

Jack Wert, Executive Director, Naples, Marco Island, Everglades Convention & Visitors Bureau, Naples, FL

2:20 p.m.

Nourishing Florida's Eroding Beaches: Should We Keep Doing This?

Michael Walther, P.E., D.CE., President, Coastal Technology Corporation, Vero Beach, FL

2:45 p.m. Professional Exchange Break

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*Marco Island Nourishment, Before and After
Photos Courtesy of Coastal Engineering Consultants, Inc.*

56th FSBPA Annual Conference Speaker Program

Wednesday, September 26, 2012

3:15 p.m.

What a Difference a Year Makes: 2012 Legislative Reform of the Permitting Process for Beach and Inlet Projects

- Representative Jim Frishe, District 54, Pinellas County, FL
- Kevin Bodge, Ph.D., P.E., Vice-President, Olsen Associates, Inc., Jacksonville, FL
- Danielle H. Fondren, PWS, Deputy Director, Division of Water Resources Management, Florida Department of Environmental Protection, Tallahassee, FL
- Diana Ferguson, Rutledge, Ecenia & Purnell, P.A., and Legislative Services, FSBPA, Tallahassee, FL

3:50 p.m.

Fireside Chat Series: A Bucket List of Policy, Funding, and Permitting "Reform" Recommendations to Insure the Future Sustainability of Florida's Beach Management Program

A Roundtable Discussion with

Florida's Senior Coastal Statesmen, including:

- Tom Campbell, P.E., D.CE., Vice-President, Coastal Planning & Engineering, Inc., (A Shaw Group Company), Boca Raton, FL
- Erik Olsen, P.E., President, Olsen Associates, Inc., Jacksonville, FL
- Michael Stephen, P.G., Ph.D., President, Coastal Engineering Consultants, Naples, FL
- Michael Walther, P.E., D.CE., President, Coastal Technology Corporation, Vero Beach, FL

4:35 p.m.

Honeymoon Island: Restoring the Beach at Florida's Most Visited State Park

Brett Moore, P.E., Co-Founding Partner, Humiston & Moore Engineers, Naples, FL, and
Andrew P. Squires, M.S., C.P.M., Coastal Manager, Pinellas County, Clearwater, FL

5:00 p.m.

35 Years of Beach Management on Marco Island

Michael Poff, P.E., Vice-President of Engineering, Coastal Engineering Consultants, Naples, FL

5:25 p.m.

Adjourn

6:30 p.m. to 7:30 p.m.

Welcome Reception, sponsored by the



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NAPLES

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56th FSBPA Annual Conference Speaker Program

Thursday, September 27, 2012

7:30 a.m. Professional Exchange Break

8:00 a.m.

Hillsboro Beach: Renourishment Lessons Learned

Tim Blankenship, P.E., Director, Coastal Systems International, Inc., Coral Gables, FL, and Bill Hanson, Vice-President and Lynn Nietfeld, Project Sponsor, Great Lakes Dredge & Dock, Oakbrook, IL

8:25 a.m.

Beach and Navigation Synergy

Jacqueline J. Keiser, PG, PMP, Chief, Coastal/Navigation Section, Water Resources Branch, Jacksonville District, U.S. Army Corps of Engineers, Jacksonville, FL

8:50a.m.

Port Everglades: Sand Management at a Major Urban Port

Eric Myers, Natural Resources Administrator, Broward County, Fort Lauderdale, FL, and Christopher Creed, P.E., Vice-President, Olsen Associates, Inc., Jacksonville, FL

9:15 a.m.

Wiggins Pass: An Inlet Management Study

Stephen Keehn, P.E., Nicole Sharp, P.E. and Lauren Floyd, Coastal Planning & Engineering Inc., (A Shaw Group Company), Boca Raton, FL, and J. Gary McAlpin, P.E., Director, Coastal Zone Management, Collier County, Naples, FL

9:40 a.m.

Changing Roles, Options and Alternatives for Managing and Funding Florida's Shallow-Draft Inlets: A Focus on St. Lucie Inlet

- Doug Smith, Commissioner, Martin County Board of County Commissioners, Stuart, FL
- Gene Rauth, Town Manager, Town of Jupiter Island, FL
- Jerry Scarborough, Chief, Water Resources Branch, Jacksonville District, U.S. Army Corps of Engineers, Jacksonville, FL
- Mark Crosley, Assistant Executive Director, Florida Inland Navigation District, Jupiter, FL
- Don Donaldson, P.E., Chair of FSBPA and County Engineer, Martin County, Stuart, FL

10:25 a.m. Professional Exchange Break

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56th FSBPA Annual Conference Speaker Program

Thursday, September 27, 2012

11:20 a.m.

Regional Sand Source Management: The Purpose and Status of the Southeast Florida Sediment Assessment and Needs Determination (SAND) Study

- Colonel Alan Dodd, District Engineer, Jacksonville District, U.S. Army Corps of Engineers, Jacksonville, FL
- Frannie Hutchinson, Commissioner, St. Lucie Board of County Commissioners, Fort Pierce, FL
- Jeff Littlejohn, P.E., Deputy Secretary, Regulatory Programs, Florida Department of Environmental Protection, Tallahassee, FL
- Jack Osterholt, Deputy-Mayor of Miami-Dade County and Director of the Regulatory and Economic Resources Department (*invited*)
- Jacqueline J. Keiser, PG, PMP, Chief, Coastal/Navigation Section, Water Resources Branch, Jacksonville District, U.S. Army Corps of Engineers, Jacksonville, FL

12:10 a.m.

Adjourn

12:15 p.m.

FSBPA Annual General Membership Meeting

1:30 p.m. to 2:30 p.m.

Department of Environmental Protection Q&A Session led by Danielle H. Fondren, Deputy Director, Division of Water Resources Management, Florida Department of Environmental Protection with the dredging industry, coastal engineers, and other professional interests. All conference attendees are welcomed.

In response to Danielle's desire to open the lines of communication between the regulators, industry and consultants, FSBPA is initiating the dialog with this one-hour informal discussion. We hope to keep active participation in the Q & A limited to the Department, dredging industry, and coastal consultants, while of course encouraging others especially our local sponsors and the Corps to observe and respond, as appropriate. With not a lot of time, it is not likely that we will get thru all of the questions, but we hope this Q & A proves to be a genuine opportunity to encourage communication.

Each of three groups (DEP, industry, consultants) has prepared and prioritized a handful of questions which will be addressed alternatively in short (three minute) segments.

Questions will be available on-line to all registered participants well in advance of the conference session.

56th FSBPA Annual Conference Speaker Program

Thursday, September 27, 2012

Field Trip *(limited availability):*

Wiggins Pass and Adaptive Inlet Management

2:00 p.m., 3:15 p.m., and 4:30 p.m.

Boat trip hosted by The Estuary Conservation Association and moderated by the Collier County Coastal Zone Management Office. There will be multiple boat tours scheduled which will run 30-45 minutes each. Available times will be 2:00 p.m., 3:15 p.m. and 4:30 p.m. *Times are subject to change.*

(Reservation instructions)

Reservations are on a first-come, first-serve basis and are available when you register as an attendee for the conference either online or via fax.



Photo courtesy of Coastal Engineering Consultants, Inc.

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56th FSBPA Annual Conference Speaker Program

Thursday, September 27, 2012

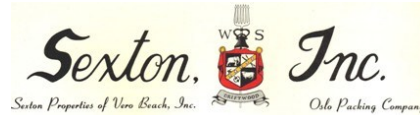
6:00 p.m.
Cash Bar

6:30 p.m.
Annual Awards Banquet, sponsored by:

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56th FSBPA Annual Conference Speaker Program

Friday, September 28, 2012

7:30 a.m. Professional Exchange Breakfast Break

8:30 a.m.

Federal Funding and Processes in Changing Times

Colonel Alan Dodd, District Engineer, Jacksonville District, U.S. Army Corps of Engineers, Jacksonville, FL

9:15 a.m.

Florida Tourism Sets Record in 2011 and Beaches Played an Important Role

Tony Lapi, Chairman of the Board of VisitFlorida and CEO Tween Waters Inn, Captiva, FL

9:40 a.m.

Indian River County Sector 3 Beach and Dune Restoration Project – Summary and Perspectives Using an Upland Sand Source

James Gray, P.E., Coastal Engineer, Indian River County, Vero Beach, FL, and Tem Fontaine, P.E., Project Engineer, Coastal Technology Corporation, Vero Beach, FL

10:05 a.m. Professional Exchange Break

10:35 a.m.

Solutions for Chronic Erosion Implemented Along Sections of Collier County's Shoreline Since 1997, 15 Years and Counting

Brett Moore, P.E., and Kenneth Humiston, P.E., Co-Founding Partners, Humiston & Moore Engineers, Naples, FL

11:00 a.m.

Local Funding Case Studies: Factors Leading to Framework, Implementation and Success

Jimmy Sellers, MBA, Coastal Management Specialist, Coastal Technology Corporation, Vero Beach, FL, and William B. Stronge, Ph.D., President, Stronge Consulting, Inc., Boca Raton, FL

11:25 a.m.

The Timing of Project Funding Requests: How to Improve Coordination between Federal, State, and Local Partners – Asking, Needing and Using

- Daniel R. Haubner, P.E., PMP, Programs Section Chief, Jacksonville District, U.S. Army Corps of Engineers, Jacksonville, FL
- Danielle H. Fondren, PWS, Deputy Director, Division of Water Resources Management, Florida Department of Environmental Protection, Tallahassee, FL
- Thomas Pierro, P.E., D.CE., Senior Coastal Engineer, Coastal Planning & Engineering, Inc., (A Shaw Group Company), Boca Raton, FL
- Virginia Barker, Watershed Program Manager, Brevard County Natural Resources Management Office, Viera, FL
- Lisa Armbruster, Director of Governmental Affairs, FSBPA, Tallahassee, FL

12:05 p.m. Conference Adjourns

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Host Sponsor



Audio-Visual

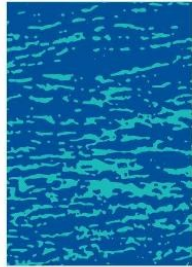


Dredging Contractors of America

Lanyards



Tote Bag, Board Breakfast, and Beaches 101 Break



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associates inc.
Coastal Engineering

Note Books



Sweets and Treats Break

TAYLOR ENGINEERING, INC.



Beverage Breaks



Friday Breakfast



Ice Cream Social



Friends of FSBPA



Pens



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56th FSBPA Annual Conference Exhibitors



Salt Water Catch Basin

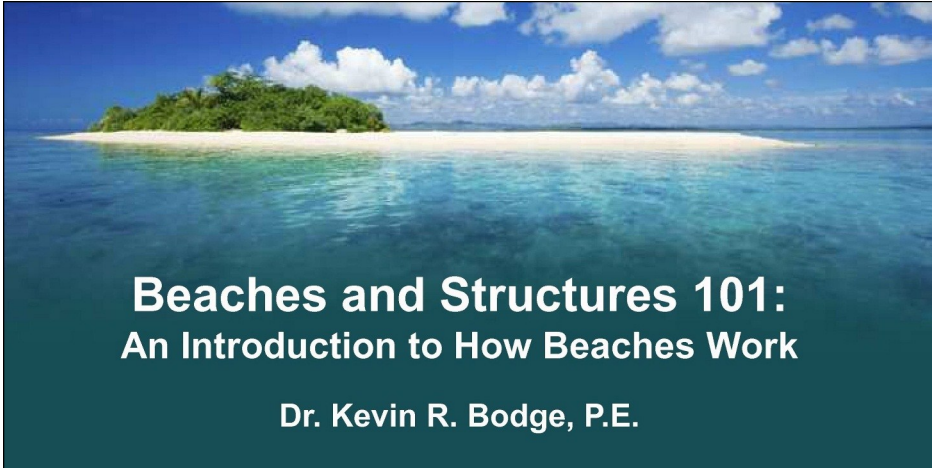


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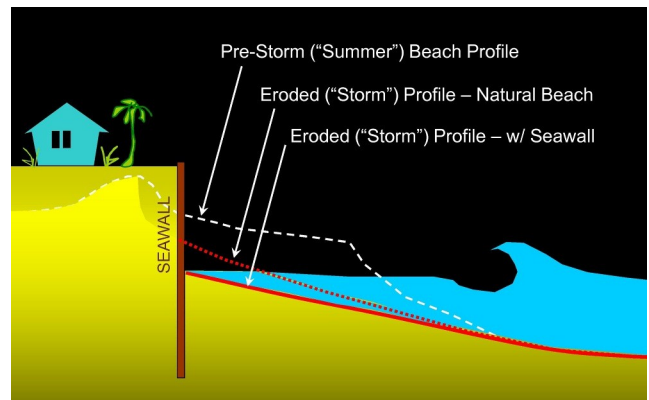
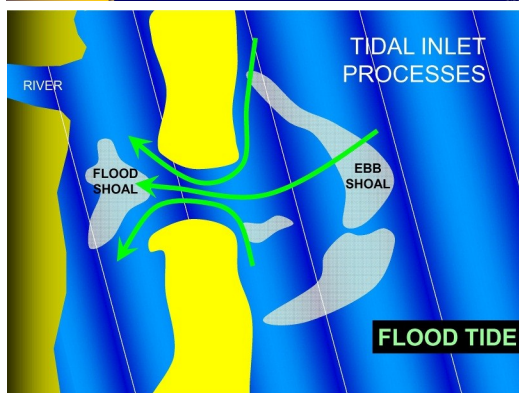
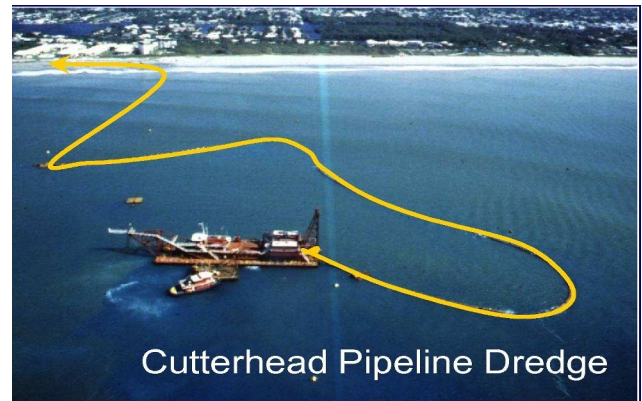
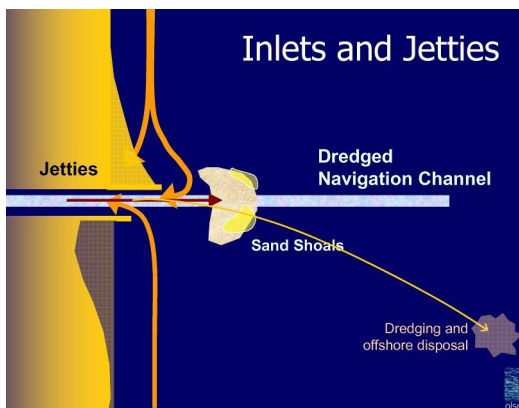
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Wednesday, September 26, 2012 – 10:00 to 11:00 a.m.



Beaches 101” presents fundamental concepts of how beaches “work”, in simple language and through descriptive graphics. This 50-minute presentation will combine description of both sandy beaches and the effects of coastal structures (seawalls, groins, and breakwaters). It is intended for laymen, officials, administrators, and other persons without a coastal engineering background who have an interest in Florida’s beaches and erosion control. Topics include fundamental beach terminology, how beaches respond to storms, why inlets strongly affect adjacent shorelines, sea level rise, the effect of seawalls and revetments along the shore, simple wave and current processes, dredging equipment, beach nourishment design, rip currents, the design and effects of groins, breakwaters and other coastal structures, and a brief introduction to numerical modeling. This entertaining lecture is presented by Dr. Kevin Bodge, a senior coastal engineer with Olsen Associates, Inc.



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Key Dates to Remember

- **September 5**- last day Hotel Room Reservations guaranteed at \$139
- **Through September 5** - Early Conference Registration
- **After September 5** - Regular Registration

Three ways to register

Online, Fax or Mail



Go online to
www.fsbpa.com/annual.htm
for complete details,
registration information, and
hotel reservations.

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IN RECOGNITION OF FSBPA'S 2012 AWARD WINNERS

By **Debbie Flack**

We sincerely hope you are planning to attend FSBPA's 56th Annual Conference, September 26-28, 2012, at the Waldorf Astoria, Naples, Florida. (www.fsbpa.com/annual.htm)

The annual awards banquet will be held Thursday evening, September 27, at 6:30, and will recognize an outstanding group of individuals as recipients of eight separate awards. Please plan to join us as we pay tribute to our celebrated stars of 2012. We have planned what we hope to be an enjoyable evening, made even better by our generous banquet sponsors – Coastal Engineering Consultants, Gahagan & Bryant, Sexton-Oslo, Tensor International Corporation, and Tetra Tech. A special thanks to our Award Plaque Sponsor Humiston & Moore Engineers.



The Association's highest award is the **Stan Tait Award** for "truly outstanding contributions" to Florida's beaches over a number of years. It is unprecedented for an individual to be nominated by two people or entities for very different reasons for a single award. However, this is the case for **Don Donaldson**, P.E. (County Engineer for Martin County, and three – time Chair of FSBPA), as nominated by Commissioner Doug Smith, Martin County Board of County Commissioners, and the Vice-Chair (Charlie Hunsicker) and President of FSBPA. When one examines Don's professional career as well as his unparalleled contributions to FSBPA, there are very few people whose contributions to Florida's beach management efforts better satisfy the Tait Award's underlying meaning. His commitment to the statewide beach program, the preservation of Martin County's beaches and

the management of the St. Lucie Inlet, and the success of FSBPA demonstrates that Don, through his thoughtful leadership over almost three decades, is most worthy of this exceptional award.

Ken Humiston, P.E., co-founder of Humiston and Moore Engineers, is the 2012 recipient of the **Jim Purpura/T.Y. Chiu Engineering Award**. This special award is in recognition of innovative scientific research and for excellence and contributions to coastal engineering. Ken has been one of Florida's leading coastal engineers, designing a number of innovative coastal engineering structures in extremely challenging high erosion areas, especially in Southwest Florida. In the ever evolving field of coastal engineering, Mr. Humiston has provided a measurable contribution to the field that goes beyond standard efforts of addressing critical erosion with beach fill or upland armoring.



Brett Moore and Ken Humiston



Dr. Todd Walton is the honored 2012 recipient of FSBPA's **Bob Dean Coastal Research Award**, named after the University of Florida's distinguished research professor, and FSBPA's Chair Emeritus. Presented to an individual for outstanding research into beach and coastal processes, the award's namesake, Dr. Dean, could think of no one more deserving of this special award. Todd has headed the Beaches and Shores Resource Center at Florida State University from 2003 until July 1 of this year. From 1979-2002, Dr. Walton was a Research Hydraulic Engineer for the U.S. Army Corps of Engineers at the Coastal Engineering Research Center and the Waterways Experiment Station. He has authored or co-authored over 80 research publications on coastal engineering, coastal processes, and inlet stability and dynamics. Dr. Walton's research has made a major impact on State and Corps

procedures for sand transport prediction, inlet project design, and structural assessment methodology. Todd's research has measurably improved beach management in Florida. This also gives FSBPA the opportunity to thank Dr. Walton for his six-years of service on the Board of Directors. Presentation of this special award will be deferred until 2013 so that it may be personally presented by Dr. Dean.

We will be presenting the **Public Service Award** to **Oswaldo Rodriguez**, Project Manager, Jacksonville District, Army Corps of Engineers. After years of trying to restore Brevard's beaches, with Oswaldo at the helm, the Brevard County Shore Protection Project, a 50-year multi-reach, federal project for restoring 13 miles of critically-eroded beaches is finally a reality. Since 1998, Oswaldo has successfully managed 8 nourishment and sand bypass projects, placing 9 million cubic yards of sand on Brevard Beaches. It has been an incredible partnership between Oswaldo and the local sponsor, especially the County's working team of Virginia Barker, Mike McGarry and Paula Berntson. Oswaldo is exactly what a public servant should be. He is dedicated, loyal, responsible, hard working and committed to being the best he can be.



Oswaldo Rodriguez and Virginia Barker

We will be presenting the **Richard E. Bonner Award** for 2012, given judiciously for outstanding service by an individual representing the U.S. Army Corps of Engineers, to **John Crane**, Project Manager, USACE Mobile District. The Association's first ever award recipient from the Mobile District, John personifies Richard's commitment to serving the COE's clients, mirrors his excellence over an almost forty-year career with the Corps, and shares his reputation for getting things done. John and FSBPA surely appreciate that this nomination came from a very special individual, Lisa Armbruster – supported by the Tourist Development Council's Board and Executive Director— based on his ongoing service and dedication to Bay County, specifically the Panama City Beaches Beach Erosion Control and Storm Damage Project. Given the differences in size and emphasis with the Jacksonville District of the Corps, John is the "beach program" for the Mobile District and the go-to contact for all our northwest Florida governmental members. John we are pleased to be able to thank you for your professionalism, and service to the Country, the State of Florida, and Bay County.



Elizabeth Godsey and John Crane



Michael Poff and Michael Stephen

FSBPA is delighted to recognize, **Michael Stephen**, P.G., and Ph.D., one of Florida's and Collier County's true "senior coastal statesmen" for the **Per Bruun Distinguished Service Award**. This award is named after the first Director of Coastal Engineering at the University of Florida and founder of FSBPA in 1957. After his early academic achievements and coastal research, in 1997 Dr. Stephen co-founded Coastal Engineering Consultants (CEC) to provide comprehensive consulting services in the evaluation, planning, permitting and design of diverse coastal and environmental projects throughout southwest Florida. Today, he remains with CEC as its Chief Executive Officer and President. What makes Michael so very worthy of the Per Bruun Award is his imprint on Collier County's regional approach to beach management which began with the development of the Collier beach restoration project in the early 1990's. Before "regionalization" became a

frequently-reinvented buzzword, Dr. Stephen had completed a truly regional project by conducting a sand source search, coastal processes analyses, erosion assessment, and storm damage reduction and benefit analysis for the entire county. Collier and Charlotte counties have benefitted directly from Dr. Stephen's contributions, and the State of Florida has also benefitted from his early initiatives involving coastal structures to manage wave energy. Michael's finest work over his 35-year career may be in the area of inlet management planning, especially focused on the southwest Florida coast. Thank you Dr. Stephen!



We will honor **Representative Jimmy Patronis**, District 6, the Florida House of Representatives, as the recipient of FSBPA's **2012 Legislative Award**. This award goes to a deserving and committed state or national lawmaker for significant contributions and outstanding leadership in support of the management of Florida's beaches. Representative Patronis is a natural for this award given his personal and professional ties to Panama City Beach. He is a lifelong resident of Bay County and is a partner in Captain Anderson's Restaurant, a family-owned business, proudly known statewide. Recognizing the economic and quality of life contributions to Bay County associated with over 18 miles of restored beachfront, Jimmy Patronis has been a tireless advocate for beaches in the House of Representatives since 2006, ensuring that policy issues relating to the permitting process for beach nourishment projects were appropriately addressed in regulatory reform packages as well as

beach-related legislation. He has a proven track record of thoroughly vetting issues and bringing stakeholders together, resulting in consensus legislation that streamlines the regulatory process without sacrificing environmental protection. Thank you Representative Patronis!

FSBPA's DENNIS L. JONES STATESMAN AWARD FOR 2012

As the exclusive choice of our "Sandman" Senator Dennis Jones (Pinellas County, District 13), the Association's highest policy award, the **Statesman Award**, is scheduled to be presented to **Senator Jack Latvala** (Pinellas and Hillsborough, District 16) on Thursday evening, September 27, by Dennis. Please join us in Naples as we "officially" say good-bye to Senator Jones, knowing that he will always be a part of FSBPA as our resident beach champion, and recognize Senator Latvala for his leadership and commitment to Florida's beaches and all of the State's natural resources.



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(One of a number of conference panels for the upcoming September Annual Conference in Naples is the much anticipated discussion on Thursday morning, September 27, 11:20 am, of regional sand source management, and the purpose and status of the Southeast Florida sediment study. We have the right folks on the panel— Colonel Alan Dodd, USACE Jacksonville District, DEP's Jeff Littlejohn, Jackie Keiser (JAX District), St. Lucie Commissioner Frannie Hutchinson, and Miami-Dade's Vice-Mayor Jack Osterholt (invited) — to provide you details, future outlook, and the political and technical nuances of this challenging subject. The following is just a brief summary of the effort's current status...)

Southeast Florida Sand Assessment and Needs Determination (SAND) Study

On August 7th, FDEP and the USACE, Jacksonville District held a SAND Study Stakeholders Meeting in Jacksonville. There were several participants representing FDEP, the USACE – Jacksonville District, southeast Florida local governments, and FSBPA. The purpose of the meeting was to provide the working group, which had previously met for the first time in February, and stakeholders, an update on and opportunity to discuss the ongoing efforts related to the SAND Study. The working group discussed finalizing the sediment needs evaluation section of the report, the field data collection efforts of the USACE, how to better refine the sediment availability evaluation update, and FDEP's development of a regional sediment management planning strategy.

The SAND Study has two main components – an evaluation of the sediment availability and the sediment needs, for the five southeast Florida counties, which include **St. Lucie, Martin, Palm Beach, Broward, and Miami-Dade**. The sediment availability evaluation builds upon and updates the geotechnical data and analysis contained in the Southeast Atlantic Regional Sediment Management Plan for Florida (USACE, 2009). In short, the sediment availability evaluation provides proven, potential, and unverified sand resource quantities in both state and federal waters off of southeast Florida. The USACE completed a geotechnical investigation off the southeast Florida coast in June, collecting 198 vibracores, which are currently being analyzed. This data will be used by the USACE to update the sediment availability evaluation. The sediment needs evaluation is comprised of five reports submitted by the southeast local governments detailing their projected sand requirements over the next 50 years. It is critical that the five individual evaluations and report presentations are consistent in their development and analysis.

The SAND Study draft, with the updated sediment availability and sediment needs presented, is anticipated to be complete in draft form in October, and final form in December. Following the SAND Study, FDEP plans to draft a Regional Sediment Management Plan for southeast Florida.

L. Armbruster (8/13/12)

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Something Positive Two Year's After the BP Oil Spill...

The RESTORE Act and NRDA grants are providing the opportunity for economic and environmental recovery in Florida, especially in our northwest coastal counties. FSBPA has anticipated the direct and indirect benefits to Florida's beach management program through the provision of funding for beach and dune restoration from these alternative oil spill-related funding sources (other than our traditional legislative funding) to the Panhandle, which frees up limited state dollars in the annual appropriations process for state cost-sharing in beach nourishment and inlet management projects elsewhere in the state.

With perhaps the exception of association members from the dredging industry, what was not envisioned or fully appreciated as a result of the oil spill was the timely introduction of new equipment within the industry. This can only benefit our statewide beach program with improving the equipment options and availability to get a specific beach project constructed! (D. Flack)

Weeks Marine's New C.R. McCaskill

(Source: Nikki Buskey, Daily Comet) An enormous \$41 million dredge built in Houma, Louisiana could soon be creating some of that state's largest coastal-restoration projects. The C.R. McCaskill is capable of building new barrier islands and marshes off Louisiana's coast. This ocean-going hydraulic cutter suction dredge is the third of five dredges the company is building for \$200 million, said Weeks Marine President Richard Weeks. The dredge is the most advanced machine of its type in the United States and is made specifically to work in offshore conditions.



Great Lakes Dredge & Dock Corporation Announces Contract for Trailing Suction Hopper Dredge

(BUSINESS WIRE)-- Great Lakes Dredge & Dock Corporation, the largest provider of dredging services in the United States, announced the execution of definitive contracts for the construction of a 15,000-cubic-yard-capacity Trailing Suction Hopper Barge and 14,000-horsepower Tug. When delivered in the second quarter of 2014, these vessels will function as an Articulated Tug & Barge ("ATB") Trailing Suction Hopper Dredge and will comprise the largest hopper dredge in the United States.



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US Army Corps
of Engineers

FEDERAL PROJECT STATUS UPDATES – August 2012

FEASIBILITY STUDIES:

- **Flagler County** – The alternative analysis process will be continuing for the remainder of the FY. The planning and engineering model Beach-fx is being used to develop a tentatively selected plan (TSP). The TSP is scheduled to be determined by September 2012.
- **St. Lucie County** – The Team submitted Feasibility Scoping Materials on March 2, 2012. Per the new planning modernization guidance, the team completed a risk register and has begun to re-scope. The Sponsor continues to move 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.

OTHER MAJOR PLANNING REPORTS:

- **Brevard County Mid-Reach General Reevaluation Report (GRR)** - The final agency and public review of the GRR has been completed. The Director's Report has been submitted to the Assistant Secretary of the Army where it is currently awaiting 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 **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. Alternative analysis is ongoing. Once complete, findings will be incorporated into a draft GRR which will undergo review by Jacksonville District. Review is currently anticipated for fall 2012.

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- **Broward County Shore Protection Project - Segment II** – Limited Reevaluation Report (LRR) and NEPA document – Sponsor has initiated their LRR 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. Final approval of DDR is on hold due to lack of Federal funding.
- The **Dade County, Section 227 Project** at 63rd Street in Miami. A design and build contract is being evaluated in cooperation with the Department of Environmental Resources Management (DERM) and Reef Innovation, Inc. The project is designed and awaiting final permitting. Issues involving authorizing language are being resolved. Work continues on completion of Plans & Specs and future construction strategy.
- **Sarasota County, Venice** – A limited reevaluation report (LRR) and Environmental Assessment (EA) are underway to evaluate economic and environmental changes to the approved Hurricane and Storm Damage Reduction Project due to the use of a new offshore borrow area.

REGIONAL SEDIMENT MANAGEMENT:

- National RSM program funding for FY12 has expanded work in the Tampa and Sarasota Bay areas. Work involves GenCADE modeling and dredging alternatives for Lido Key/Siesta Key barrier island complex. The new Corps dredge, the Merden, will be used to dredge and place material in the nearshore off of **Egmont Key**. Work is expected to begin in early September, 2012. Jacksonville District will be working with the Corps' Engineering Research and Development Center (ERDC) to evaluate benefits provided to the coastal system by nearshore placement.
- The Corps' dredge, Currituck, will begin dredging in Ponce Inlet the week of August 6th with beneficial use of the dredged material on the beach south of the inlet. The Corps' Engineering and Research Development Center (ERDC) will attempt to monitor the transport of the placed material using their Radar Inlet Observing System (RIOS). More information on RIOS is available online at <http://www.offshoreswell.com/>.
- Ongoing RSM work in **St. Johns** and **Duval Counties** includes GenCade model development, planned to eventually link the coastal system between the St. Johns River Inlet and St. Augustine Inlet. Work also includes evaluating alternatives for beneficial use of material from channel maintenance combined with use of offshore sources for beach nourishment projects throughout the region. Additional work in Duval County will focus on beneficial-use options, such as using dredged material for environmental restoration or nearshore placement, rather than disposing of the material offshore or in upland disposal sites.

- The **Southeast Florida S.A.N.D. (Sediment Assessment and Needs Determination) Study** is a state-led study which will evaluate southeast Florida sand needs compared to availability in domestic offshore sources. The Corps is providing technical support for the assessment. Vibracores collected for the study are under analysis by the FDEP and their consultant, CP&E. This work will lead to further definition of the volume of beach compatible sand available. Five southeast Florida Counties (Martin, St. Lucie, Palm Beach, Broward, and Miami-Dade) have prepared evaluations of the volume of sand needed by their Federal and non-federal beach nourishment projects over the next 50 years. The evaluations are undergoing final revisions. A report detailing offshore sources of sand available and projected needs for those sources by the five counties will be completed in fall 2012.

CONSTRUCTION:

- **Pinellas County SPP** – Sand Key Sand nourishment began on May 15th, 2012. At the time of writing the contractor has started beach placement at Indian Rocks Beach. Approximately 55% of the overall beach fill has been placed so far. The construction is expected to be completed around mid-October.



- **St. Johns County BEC** – Renourishment currently underway to place up to 2.1 MCY on St Augustine beaches. The current renourishment represents a great example of RSM. Three sand sources will be used sequentially to nourish the Federal SPP located south of the St. Augustine Inlet which is a shallow-draft Federal navigation project: a portion of Vilano Shoal (adjacent to the channel) will be dredged first, then the main channel of St. Augustine Inlet,, and finally the ebb shoal will be dredged to meet the 2.1 million cubic yard renourishment need of the SPP. All of the sources will be dredged with a large cutterhead (pipeline) dredge with direct pumpout to the beach. This strategy is beneficial to navigation since the channel and problematic Vilano Shoal are being targeted for dredging first.
- **Dade County BEC&HP Project** – The Contract E renourishment continues with estimated completion in September 2012. Draft Plans & Specs are currently being developed for the next renourishment, Contract G, planned for 2013.

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2012 Up-date to Critically Eroded Beaches Designations

**Ralph Clark, P.E., Coastal Engineer
Florida Department of Environmental Protection
Bureau of Beaches and Coastal Systems**

Pursuant to Sections 161.101 and 161.161, Florida Statutes, the Department of Environmental Protection, Bureau of Beaches and Coastal Systems is charged with the responsibility to identify those beaches of the state which are critically eroding and to develop and maintain a comprehensive long-term management plan for their restoration. Those beaches, which are critically eroded and in need of restoration and nourishment, are eligible for State funding assistance through appropriations by the Florida Legislature. In 1989, a first list of erosion areas was developed based upon an abbreviated definition of critical erosion. The Bureau currently publishes the document, *Critically Eroded Beaches in Florida*, on an annual basis, which can be accessed at – <http://www.dep.state.fl.us/beaches/publications/tech-rpt.htm#Critical Erosion Reports>.

The current inventory of critically eroded areas was formulated based upon an updated and modified definition of critical erosion. The following definition has been adopted by the Bureau to identify critically eroded areas:

Critically eroded area is a segment of the shoreline where natural processes or human activity have caused or contributed to erosion and recession of the beach or dune system to such a degree that upland development, recreational interests, wildlife habitat, or important cultural resources are threatened or lost. Critically eroded areas may also include peripheral segments or gaps between identified critically eroded areas which, although they may be stable or slightly erosional now, their inclusion is necessary for continuity of management of the coastal system or for the design integrity of adjacent beach management projects.

Prior to listing an area, the Bureau's coastal engineering staff investigates an area of concern and employs both qualitative assessments and quantitative data and analyses to recommend a segment of shoreline as critically eroded. The type of quantitative data and analyses considered includes but is not limited to beach and offshore profiles, upland topography, nearshore and offshore bathymetry, historical shoreline position changes, storm tide frequency, beach and dune erosion, recent storm damage, design adequacy of upland development, and proximity of development, infrastructure, wildlife habitat, and important cultural resources to the effects of a 25-year frequency storm event. Typically, the staff evaluates areas when new beach and dune profile data becomes available. A comparison is made between the new data and other recent data to determine if there have been significant erosion changes that may make upland properties more vulnerable. When it appears there has been a worsening of the topographic conditions, staff will employ dune erosion modeling with a 25-year return interval storm tide to evaluate the erosion limits with respect to existing development, infrastructure, etc. The design adequacy of buildings is considered when the erosion of a 25-year storm event is projected to encroach within reasonable proximity to development. Major structures that are noncompliant to current coastal building standards

would be considered threatened, whereas, major structures that have been adequately designed and constructed for the erosion conditions, and were permitted under the Coastal Construction Control Line program, would not be considered threatened.

Following major storm events, the coastal engineering staff conducts detailed damage investigations, and documents these studies at – <http://www.dep.state.fl.us/beaches/publications/pdf/PSR-archive.pdf>. Usually the impact of a major storm event, and the damage assessed to the beach, dunes, and upland properties and structures, will facilitate a determination of critical erosion. After severe storms like Hurricanes Opal (1995), Ivan (2004), Frances and Jeanne (2004), and Dennis (2005), large segments of northwest Florida and the east coast of Florida were determined critically eroded. But sometimes data is limited at the time of an investigation and the staff utilizes professional engineering judgment based upon reasonably accepted standards and practices to make a critical erosion determination. Subsequently, when pertinent new data is obtained, an update analysis is conducted to confirm and potentially revise an area that was designated or not designated.

The Bureau has completed its annual up-date to the document – *Critically Eroded Beaches in Florida* (2012). Up-date east coast surveys in 2011 permitted the investigation of long term beach recovery over the seven years since Hurricanes Frances and Jeanne inflicted severe erosion along the east coast. Total recovery or partial recovery to the point of no longer being threatened by high frequency storm conditions is the key to de-listing an area. The 2012 report de-lists beach segments in Flagler County (0.9 mile), Volusia County (2.7 miles), and St. Lucie County (1.8 miles). A 4.7-mile segment of Kennedy Space Center was listed as critical after a new study conducted on Cape Canaveral, and a 0.6-mile segment at the north end of Conch Island in St. Johns County was added as noncritical. The 2012 list now includes 397.9 miles of critically eroded beach, 8.7 miles of critically eroded inlet shoreline, 96.2 miles of noncritically eroded beach, and 3.2 miles of noncritically eroded inlet shoreline statewide.



Photo courtesy of NASA Kennedy Space Center

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**26th Annual National Conference on Beach Preservation Technology
February 13-15, 2013 | Omni Jacksonville Hotel | Jacksonville, Florida**

Call for Presentations

Deadline is October 5, 2012

We welcome abstracts on the topics listed below:

Shore Protection Projects and Coastal Management

- Shore protection projects that demonstrate current strategies and technologies
- Post-construction monitoring analyses and their applications
- Sediment management strategies and implementation
- Coastal inlet evolution and impact studies, and inlet management projects
- Structural solutions and their applications
- Sediment transport and coastal processes modeling

Coastal Research and Environmental Science

- Applied coastal research from the USACE, USGS, NOAA, and academic institutions
- Environmental science applications and resulting influence on project development, construction, and monitoring
- Mitigation strategies and implementation

Additional Topics

- Sea level rise
- Beach and nearshore hydrographic surveying technology
- Dredging technology
- Coastal management policy decisions and lessons learned

Who Should Submit?

- Public and private sector engineers
- Environmental scientists
- Coastal geologists
- Marine scientists and biologists
- Academic researchers
- Coastal surveyors
- Coastal managers and local government representatives

Submission Deadline -- October 5, 2012

Please submit abstracts not to exceed two pages in length, in PDF or Word format, to abstracts@fsbpa.com by **October 5, 2012**. The abstract must include name, affiliation, and contact information, including email address. The National Conference on Beach Preservation Technology Planning Committee will evaluate all abstracts. Abstract submittals shall describe the content of the proposed presentation and why it may be of interest to conference attendees. Abstracts shall include discussion on objective/motivation, methods/approach, results/findings, and conclusions/lessons learned.

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CALENDAR OF EVENTS

FSBPA Conferences

September 26-28, 2012

2012 FSBPA Annual Conference

Waldorf Astoria, Naples

Naples, FL

February 13-15, 2013

2013 National Conference on Beach Preservation Technology

Omni Jacksonville

Jacksonville, FL

Call for Presentations: Abstracts due October 5, 2012

OTHER DATES OF INTEREST

October 9-12, 2012

ASBPA National Coastal Conference

San Diego, CA

November 13-14, 2012

Atlantic IntraCoastal Waterway Association Annual Conference

Charleston, SC

February 26-28, 2013

ASBPA National Coastal Summit

ASAE Conference Center, Washington, DC

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