



## 2021 PRE-SESSION OVERVIEW

by Pepper Uchino

The 2021 Session is around the corner. The pre-session committee calendar is out, with the first committee week beginning next week (1/11). There is another scheduled week in January and three in February before the official kick off to Session on March 2<sup>nd</sup>.



This year, committee weeks and likely the majority, if not the entirety of Session will be severely impacted by the continuing COVID-19 pandemic. The House and Senate have issued new protocols that will limit in-person participation and seating in committee meetings. All public testimony will also have to be virtual. Session rules are not out yet, but we can expect continuity of many of these protocols. On top of all this, we are operating under a new funding rule, which is bound to have some rough areas. Welcome to the 2021 Session, everyone.

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## Inside this Edition

### 2021 National Conference on Beach Preservation Technology February 3-5

Embassy Suites St. Augustine Beach

◆ Program

◆ Registration Info [Click Here](#)

Early registration ends 1-18-21

◆ Hotel Info [Click Here](#)

Deadline for group rate is 1-16-21

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Southeast Florida's world-famous beaches have a special sidekick: Florida's Coral Reef; a precursor to the FDEP Coral Reef Conservation Program discussion at the 2021 Tech Conference

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Anastasia State Park  
photo courtesy of FloridaHistoricCoast.com

This year marks the new two-year terms for incoming Senate President Wilton Simpson (R-District 10) and Speaker of the House Chris Sprowls (R-District 65). They will take the reins with a near Republican supermajority in the House and an actual supermajority in the Senate. FSBPA's agenda for the 2021 Legislative Session is straightforward but implementation is going to be much different than in years past. We will have limited opportunities to interact with staff and legislators as we compete for virtual time like everyone else in what is expected to be a very tight budget year. Our governmental strategy will be adaptive and fluid as we navigate the COVID protocols to attain our goals. Fortunately for the statewide beach program, documentary stamp tax revenues, which fund the LATF, have remained stronger than anticipated as the real estate market has continued its hot streak and low interest rates have fueled a refinancing boom. Our mutual objective and initial starting point must be to maintain \$50M for the program in the base budget. If you recall from last year, the great news was for the first time all \$50M came from a recurring source (LATF), which is used to build the base budget. Unfortunately, the tight budget will affect discretionary spending of general revenue, from which storm damage recovery and other non-base budget issues are funded. The Legislature has not adequately funded post-storm beach recovery over the last few sessions and this session may be no exception. However, we will continue to push for separate and supplemental funding for storm recovery. The traditional beach program was never intended to absorb these costs nor can it long term.



For the 2021/22 local government funding requests, the department's Beach Management Funding Assistance Program has completed its review of all beach and inlet management project funding applications. The program received 54 applications initially requesting over \$113M in state funds. Department staff reviewed, evaluated, and ranked the applications in accordance with the new rule and statute. They ultimately accepted 35 eligible beach projects and 11 eligible inlet projects, for a total of over \$72.4 million in state funds. Under the new statutory funding rules for inlets, they will receive 10.71% of the total amount allocated this year. If we can hold the \$50M in the base budget, the breakdown would be approximately \$5.34M for inlets and \$44.66M for beaches.

While FSBPA has secured some measure of certainty with programmatic funding in the base budget, our board of directors has also directed our legislative agenda to include aspects of climate change and its associated issues. Unlike securing funding for the traditional beach program, the problems facing the state from the impacts of climate change are much more complex and daunting, not to mention costly. There will be no coastal area in the state spared from impacts. We already know both the Senate President's and Speaker of the House's staffs are working on some behind-the-scenes policy issues. In addition, the passage of SB 178 last year, requiring a sea level rise impact study for public financing of construction projects, was likely the first bill of many over the next several sessions that the chambers will debate, with some assuredly signed into law. We fully expect to see the number of climate change and resiliency bills introduced to accelerate as impacts become more common and severe. In the past, FSBPA has merely monitored such legislation, however, this year we will be taking an active, supportive role. The future of beaches and healthy coasts in Florida requires it. FSBPA staff will be in contact with members, their staffs and professional committee staff throughout the committee weeks and Session to position FSBPA as a policy leader for mitigation and adaptation strategies for our coasts. As far as appropriations are concerned, we will continue to support separate funding (not part of the beach program) for resilience measures for our beaches and shores. We look forward to fully engaging in this policy arena this session.

Please reach out to me anytime if you have questions or want to discuss any policy or appropriations issues that pop up from now until the end of Session. On behalf of the FSBPA team, we wish you a happy, healthy and prosperous New Year and hope to see you in St. Augustine Beach or on Zoom next month for the Tech Conference!



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## 34th Annual Conference

February 3-5, 2021

Embassy Suites by Hilton  
St. Augustine Beach

We hope you have plans to attend the 2021 National Conference on Beach Preservation Technology Conference. Following are some highlights and details you need to know about this year's conference. The Planning Committee prepared an outstanding program that includes 18 hours of in-depth discussion about the most relevant and ground-breaking scientific and engineering work taking place on coastlines around the country. The 34<sup>th</sup> Tech Conference will be held as a hybrid event, accessible to everyone who would like to attend either in-person at the St. Augustine Beach Embassy Suites or on-line. Details to register are provided in the newsletter and on our [website](#).

### OBJECTIVES

- ◆ Present the latest in beach preservation technology and coastal research put into real-world practice.
- ◆ Provide a forum for academic, scientific and coastal design professionals to present timely information to peers and government managers who make decisions on coastal projects and policies.
- ◆ Promote professional development and networking with 18.5 hours of professional development units for in-person attendees and 17.5 hours for virtual attendees.

### HIGHLIGHTS

The program provides important and timely discussion on the performance and design considerations of shore protection and port maintenance projects \* erosion control structures \* ocean piers \* sand investigations \* inlet sediment bypassing \* hurricane impacts \* resource monitoring \* climate change and resiliency living shorelines \* and many other areas of interest.

Anticipated presentations and sessions include:

- Welcome from St. Johns County, plus NE Florida project updates and news from University of North Florida on the new Beachfront Data Collection Facility
- Recent Hurricane Sally impacts on the Gulf coast's battered beaches
- How Climate Change is Bringing the USACE Coastal Storm Damage Reduction and Ecosystem Restoration Programs Together
- Palm Beach Island Beach Management Agreement Five Year Program Review, a panel discussion on imperiled species management, hardbottom and physical monitoring, and adaptive management
- A Louisiana Barrier Island Restoration, A Five Island Grandiose Endeavor During a Pandemic

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- Updates from the Florida Department of Environmental Protection Beaches Program
- Stony Coral Tissue Loss Disease Highlights Need for Novel Restoration Activities
- Coastal Erosion in a Highly Artificial Dynamic Shoreline Environment. A Case Study in Dubai, UAE
- Coastal Flood Resilience Implementation Plan for Town of Palm Beach, FL: Using Sound Science to Build Resilience into Public Works Planning

There is no shortage of exceptional presentations to hear, so be sure to join us February 3-5, 2021!

**All registered attendees will receive an invitation to join the Student Scholarship Program this year, virtually. Students will make their poster presentations in Zoom the morning of January 27, 2021. Be sure to save the date!**

**Register Now!**

**Hotel Reservations**



Embassy Suites by Hilton St. Augustine Beach Resort

**2021 Tech Conference DRAFT Program**  
**February 3-5 ♦ Embassy Suites by Hilton St. Augustine Beach**

**Wednesday, February 3**

**DRAFT PROGRAM**

**OPENING GENERAL SESSION**

**1:00 p.m. to 5:30 p.m.**

**1:00 p.m.**

**Welcome from Henry Dean, St. Johns County District 5, St. Augustine, FL**

**1:10 p.m.**

**Performance and Design Considerations of Historic and New-Start Shore Protection Projects in St. Johns County**  
**Stephen Hammond, E.I., St. Johns County, FL**

**1:35 p.m.**

**A Tale of Two Sand Sources: Designing New Sand Sources for Beach Restoration in Northeast Florida**  
**Jennifer Coor, Ph.D., P.G., U.S. Army Corps of Engineers, Jacksonville District, FL**

**1:55 p.m.**

**Beach Fill Up and Over Coastal Structures in Vilano Beach, FL**  
**Will Reilly, P.E., Geoff Klug, P.E., and Rosie Pinto, E.I., U.S. Army Corps of Engineers, Jacksonville District, FL**

**2:15 p.m.**

**Evaluation of Sediment Basins Performance for Navigation Channel Shoaling Reduction and Shoreline Sand Bypassing**  
**Michael Kabiling, Ph.D., P.E., CFM, Taylor Engineering, Inc., Jacksonville, FL**

**2:35 p.m.**

**The New Beachfront Data Collection Facility in St. Johns County, Florida: A Collaborative Effort**  
**William Dally, Ph.D., P.E., University of North Florida, Jacksonville, FL, Michael Shirley, Ph.D., Guana Tolomato Matanzas National Estuarine Research Reserve, Ponte Vedra Beach, FL and Rajesh Srinivas, Ph.D., P.E., St. Johns County, FL**

**2:50 p.m.**

**UNF Students' Site Investigation for the New Beachfront Data Collection Facility in St. Johns County, Florida**  
**Brynna Bartlett, Camden Dean, Garrett Jones, and William Dally, Ph.D., P.E., University of North Florida, Jacksonville, FL**

**3:05 p.m.**

**Professional Exchange Break (25 Minutes)**

**Zoom Webinar Session Sponsored by**



**3:30 p.m.**

**Coastal Flood Resilience Implementation Plan for Town of Palm Beach, FL: Using Sound Science to Build Resilience into Public Works Planning**

**Kirk Bosma, P.E. and Nasser Brahim, Robert Hamilton, Woods Hole Group, Bourne, MA and Robert Weber, Town of Palm Beach, FL**

**3:50 p.m.**

**FDEP's Beaches, Inlets and Ports Program Update**

**Gregory Garis, Office of Resilience and Coastal Protection, Florida Department of Environmental Protection, Tallahassee, FL**

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4:10 p.m.

**Impact of Hurricane Sally on the Northwest Coast of Florida, 2020**

Ralph Clark, P.E., William Weeks, and Jeohusua Lugo, Office of Resilience and Coastal Protection, Florida Department of Environmental Protection, Tallahassee, FL

4:30 p.m.

**Beach Impacts of Hurricane Sally in the Florida Panhandle and Alabama**

Al Browder, Ph.D., P.E., D.CE and Sergio Pena, E.I., Olsen Associates, Jacksonville, FL

4:50 p.m.

**St. Andrews State Park Emergency Restoration Project: “Working Together for a Common Goal”**

Michael Dombrowski, P.E. and Katie Hutschenreuter, E.I., MRD Associates, Inc., Destin, FL, Lauren Floyd, Coastal Protection Engineering, Boca Raton, FL, and Lisa Armbruster, Sustainable Beaches, LLC, Ponte Vedra, FL

5:10 p.m.

**Case Study: Navarre Beach – Performance during Hurricanes**

Hannah Walsh, E.I. and Tem Fontaine, P.E., Coastal Tech-G.E.C., Inc., Vero Beach, FL

5:30 p.m.

Adjourn

**Thursday, February 4**

**GENERAL SESSION**

8:00 a.m. to 11:55 a.m.

8:00 a.m.

**Historical Changes in the Lake Worth Inlet Flood Shoal**

Jannek Cederberg, P.E., Jordon Cheifet, P.E., CFM, and Leonard Barrera Allen, E.I., Cummins Cederberg, Inc., Miami, FL

8:20 a.m.

**An Analysis of the Shoaling at The Port of Palm Beach Entrance Channel and Strategies to Control Costs and Impacts to Shipping**

Ronald Coddington, P.E., Port of Palm Beach, Riviera Beach, FL

8:40 a.m.

**Sand Management at St. Lucie Inlet, Martin County**

Stacey Roberts, Atkins, Sarasota, FL, John Ramsey, P.E., Ph.D., Applied Coastal Research and Engineering, Mashpee, MA, and Kathy FitzPatrick, P.E. and Jessica Garland, Martin County, Stuart, FL

9:00 a.m.

**4 for 1: How the Coquina Beach FEMA Project Addresses Impacts from Two Storms Alongside a Federal Nourishment and Inlet Maintenance in Manatee County, Florida**

Thomas P. Pierro, P.E., D.CE and Michelle Pfeiffer, P.E., Coastal Protection Engineering, Boca Raton, FL and Charlie Hunsicker and Erin Struzzieri, Director of Parks and Natural Resources Department, Manatee County, Bradenton, FL

9:20 a.m.

**Louisiana Barrier Island Restoration, A Five Island Grandiose Endeavor During a Pandemic**

Michael Poff, P.E., Coastal Engineering Consultants, Inc., Bonita Springs, FL, and Steve Dartez, Brett Borne, P.E., Coastal Engineering Consultants, Inc., Denham Springs, LA

9:40 a.m.

Professional Exchange Break (25 Minutes)

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10:05 a.m. – 11:10 a.m.

**PANEL: Palm Beach Island Beach Management Agreement (BMA) Five Year Program Review**

10:05 a.m.

**Programmatic and Regulatory Aspects of the BMA**

Lainie Edwards, Ph.D., Office of Resilience and Coastal Protection, Florida Department of Environmental Protection, Tallahassee, FL

10:15 a.m.

**Local Stakeholder Perspectives on the BMA**

Robert Weber, Town of Palm Beach, FL

10:25 a.m.

**Imperiled Species Management Under the BMA**

Robbin N. Trindell, Ph.D., Imperiled Species Management, Florida Fish and Wildlife Conservation Commission, Tallahassee, FL

10:40 a.m.

**Regional Monitoring of Hardbottom Resources Under the BMA**

Cheryl Miller, Coastal Eco-Group, Deerfield Beach, FL

10:55 a.m.

**Physical Monitoring and Adaptive Management Under the BMA**

Mike Jenkins, Ph.D., P.E., Applied Technology and Management, Inc., West Palm Beach, FL

11:10 a.m.

**Stony Coral Tissue Loss Disease Highlights Need for Novel Restoration Activities**

Joanna Walczak, Coral Protection and Restoration Program, Office of Resilience and Coastal Protection, Florida Department of Environmental Protection, Miami, FL, Victoria Barker, National Coral Reef Management Fellow, Florida Keys National Marine Sanctuary/Nova Southeastern University, Key West, FL, Keri O'Neil, Manager, Coral Conservation Program, Center for Conservation, The Florida Aquarium, Apollo Beach, FL, and Jocelyn Karazsia, NOAA National Marine Fisheries Service, West Palm Beach, FL

11:40 a.m.

**Structural Stabilization and Rehabilitation of Two Reef Sites Impacted by *M/V Spar Orion* and *M/V Clipper Lasco* Groundings, Fort Lauderdale, Florida**

Chris Creed, P.E., Olsen Associates, Jacksonville, FL and Cheryl Miller, Coastal Eco-Group, Deerfield Beach, FL

12:00 p.m.

**Lunch (1 Hour)**

1:00 p.m.

**Model-based Decision Support for Coastal Hazard Evaluation and Adaptation: Coastal ADAPT**

Cheryl Hapke, Ph.D., Integral Consulting, St. Petersburg, FL

1:20 p.m.

**The Meeting of Two Missions: How Climate Change is Bringing the USACE Coastal Storm Damage Reduction and Ecosystem Restoration Programs Together**

Jason Engle, P.E. and Matt Schrader, P.E., Jacksonville District, and Jackie Keiser, P.G., South Atlantic Division, Jacksonville, FL

1:40 p.m.

**St. Augustine and STAPLEE: A Tool for Prioritizing Flood Adaptation for Historic Properties**

Angela Schedel, Ph.D., P.E., Taylor Engineering, Inc., Jacksonville, FL



2:00 p.m.

**Miami-Dade County Coastal Erosion Modeling**

Alberto Pisani, P.E. and Marina Blanco-Pape, P.E., Miami-Dade County Department of Regulatory and Economic Resources, Miami, FL, Jesse Davis, P.E. and Hugo Rodriguez, Ph.D., P.E., GHD, Inc., Miami, FL and Nicholas Bragaia, E.I., GHD, Inc., Wellington, FL

2:20 p.m.

**Climate Change Resiliency Considerations for Barrier Islands Along Southwest and Central Florida**

Mohamed Dabees, Ph.D., P.E., D.CE., Humiston & Moore Engineers, Naples, FL

2:40 p.m.

**Coastal Resiliency Initiatives as Flood Risk Management Strategies**

Doris Otero, Ph.D., APTIM, Boca Raton, FL

3:00 p.m.

Professional Exchange Break (25 Minutes)

**Zoom Webinar Session Sponsored by**



3:25 p.m.

**Drone Technology and Rubble Mound Structures - St. Lucie Inlet South Jetty Case Study**

Andrew Wycklendt, P.E., APTIM, Boca Raton, FL and Kathy FitzPatrick, P.E., Martin County, Stuart, FL

3:45 p.m.

**Practical Considerations and Responses to Ageing Coastal Structures**

Douglas Mann, P.E., D.CE., APTIM, Boca Raton, FL

4:05 p.m.

**Dellanera PAS Breakwater**

Emily Perron, Patrick Kerr, Ph.D., PE., and Coraggio Maglio, P.E., U.S. Army Corps of Engineers, Galveston District, TX

4:25 p.m.

**Physical Model Investigation of Mangrove Effects on Hydrodynamics and Loads on Near-Coast Structures**

Tori Tomiczek and Anna Wargula, United States Naval Academy, Annapolis, MD, Sabella Goodwin, U.S. Navy, Dan Cox, Oregon State University, Andrew Kennedy, University of Notre Dame, Pedro Lomonaco, Oregon State University, and Patrick Lynett, University of Southern California

4:45 p.m.

**Living Shorelines along the Georgia Coast**

Jordan Dodson, Georgia Department of Natural Resources-Coastal Resources Division, Brunswick, GA

5:05 p.m.

**Implementing a Resilient Structure to Protect Coastal and Historic Resources at Brunswick Town/Fort Anderson**

Phillip Todd, Atlantic Reefmaker, Belville, NC, Jim McKee, Brunswick Town/ Fort Anderson State Historic Site, Southport, NC, and Devon Eulie, Ph.D., University of North Carolina at Wilmington, NC

5:25 p.m.

Adjourn

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**Friday, February 5****CLOSING GENERAL SESSION****8:00 a.m. to 12:25 p.m.****8:00 a.m.****Aquares IDGM - Mygeotwin Sand Search Technologies****Shailesh Patel and John Sawyer, ArcDMC Sediment Solutions LLC, Melbourne, FL and Peteralv Brabers, Ph.D., Demco NV, Wintershoven, Belgium****8:20 a.m.****SandSnap: Engaging Citizen Scientists to Crowdsource Beach Grain Size Data****David Young, Ph.D. and Brian McFall, Ph.D., P.E., U.S. Army Engineer Research and Development Center, Duck, NC and Vicksburg, MS****8:40 a.m.****South Atlantic Division Sand Availability and Sand Needs Study (SAD SAND)****Barbara Nist, P.G., U.S. Army Corps of Engineers, Jacksonville District, FL****9:00 a.m.****USACE South Atlantic Division Dredged Material Management Areas Offloading and Sediment Exchange Study****Jonathan Armbruster, P.E., Taylor Engineering, Inc., Jacksonville, FL****9:20 a.m.****Data Collection and Analysis for USACE Coastal Resilience SAND Investigation****Wendy Laurent, E.I. and Angela Schedel, Ph.D., P.E., Taylor Engineering, Philadelphia, PA and Jacksonville, FL****9:40 a.m.****A Meteorite Impact Crater in Coastal Waters off Miami Beach? – Novel Data and Insights****William Aley IV, P.G., Taylor Engineering, Jacksonville, FL****10:00 a.m.****Professional Exchange Break (25 Minutes)****10:25 a.m.****The Economic Value of South Carolina's Beaches****James Houston, Ph.D., U.S. Army Engineer Research and Development Center, Vicksburg, MS****10:45 a.m.****Ocean Fishing Pier Design with Limited Pile Embedment****Jonathan Sigman, P.E., Collins Engineers, Inc., Charleston, SC and Matt Goodrich, P.E., Water Environment Consultants, Mount Pleasant, SC****11:05 a.m.****Coastal Erosion in a Highly Artificial Dynamic Shoreline Environment. A Case Study in Dubai, UAE****Felix Juzgado, M.E., Philip Slagle, P.E., and Dave Canfield, M.E., P.E., Applied Technology and Management, Inc., West Palm Beach, FL, Mount Pleasant, SC, and Dubai, UAE****11:25 a.m.****Water Quality Modeling Utilizing Conservative Tracers: Robinson Preserve Expansion Case Study, Manatee County, FL****Morjana Signorin, Zhifei Dong, Ph.D., and Doris Otero, Ph.D., APTIM, Boca Raton, FL, and Michelle Pfeiffer, P.E., and Thomas Pierro, P.E., D.CE, Coastal Protection Engineering, Boca Raton, FL**

11:45 a.m.

**Direct Numerical Simulations of Sediment Transport due to Miniature Along-Shelf Current-Supported Turbidity Currents**

Sahar Haddadian, Ph.D., E.I., Cummins Cederberg, Inc., Fort Lauderdale, FL

12:05 p.m.

**WEDG, A New Tool in Resilient Waterfront Design**

Danielle Irwin and Rebecah Delp, WEDG, Cummins Cederberg, Inc., Tallahassee, FL

12:25 p.m.

**Adjourn**

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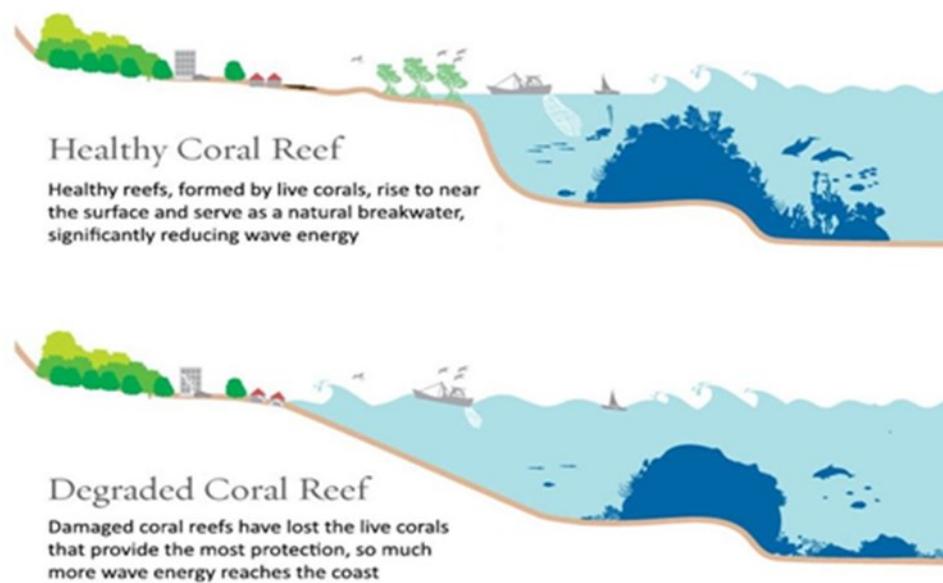
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## Southeast Florida's world-famous beaches have a special sidekick: Florida's Coral Reef

### FDEP Coral Reef Conservation Program



Florida's Coral Reef extends over 350 nautical miles from the St. Lucie Inlet in Martin County past Key West to the Dry Tortugas in Monroe County. Florida is fortunate to be the only state in the continental United States with an extensive shallow coral reef ecosystem near its coasts. While the reef is home to millions of organisms, it is also a natural buffer for Florida's shoreline.



*Graphic by The Nature Conservancy*

Florida's Coral Reef serves as our first line of defense against extreme weather, shoreline erosion and coastal flooding. Healthy coral reefs can dissipate 97% of wave energy that would otherwise erode beaches (Ferrario et al. 2014). Degraded reefs lacking structural complexity accelerate beach erosion caused by daily wave action (Ferrario et al. 2014). Florida's Coral Reef provides more than \$355 million per year in flood protection benefits to buildings and protects nearly \$320 million in annual economic activity (Storlazzi et al. 2019) to Martin, Palm Beach, Broward, Miami-Dade and Monroe counties. Florida's Coral Reef directly protects 5,600 people in this region from flooding every year (Storlazzi et al. 2019). The Reef provides habitat for species valuable to commercial and recreational fisheries, is a new frontier for biomedical research and attracts tourists who bolster Florida's economy.

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Waves breaking over Florida's Coral Reef along Broward County during Superstorm Sandy, 2012.

Photo by Ken Banks

Southeast Florida's economy, beaches and way of life are inextricably linked to our coral reef ecosystem. Due to the ongoing outbreak of Stony Coral Tissue Loss Disease, it is critical that coastal construction projects and practitioners follow best management practices for coral reef conservation that limit the potential for coral disease to spread and support the natural resilience of our reefs now and for generations to come. Innovative coral restoration activities should be integrated into coastal construction mitigation opportunities in southeast Florida to reinforce the State's position as a global leader in coral reef protection and restoration. To learn more about coral-friendly best management practices, see [Maritime Industry and Coastal Construction Impacts \(MICCI\) products](#) and [DEP Standard Operating Procedures for Nearshore Hardbottom Monitoring](#). To learn more about coral reef conservation, visit [FloridasCoralReef.org](http://FloridasCoralReef.org).

Ferrario, F., Beck, M. W., Storlazzi, C. D., Micheli, F., Shepard, C. C., & Airoidi, L. (2014). The effectiveness of coral reefs for coastal hazard risk reduction and adaptation. *Nature communications*, 5(1), 1-9.

Storlazzi, C. D., Reguero, B. G., Cole, A. D., Lowe, E., Shope, J. B., Gibbs, A. E., ... & Beck, M. W. (2019). *Rigorously valuing the role of US coral reefs in coastal hazard risk reduction* (No. 2019-1027). US Geological Survey.

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**Shoreline**

A monthly electronic publication of the Florida Shore & Beach Preservation Association.

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**CALENDAR OF EVENTS****FSBPA Conferences**

**February 3-5, 2021**

**34th Annual Tech Conference**

**Embassy Suites by Hilton, St. Augustine Beach, Florida**



**Do not delay register today to save \$50**

**Other Dates of Interest**

**February 9-10, 2021**

**24th Annual Florida Marine Turtle Permit Holder Meeting**

**via online platform: Microsoft Teams Live**

**March 23-25, 2021**

**ASBPA 2021 Coastal Summit**

**Online**

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