

Wednesday, February 2, 2022

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.

St. Johns County, FL Hurricanes Matthew and Irma FEMA Emergency Berm Restoration Project

Damon Douglas and Stephen Hammond, St. Johns County Public Works Department, St. Augustine, FL, Thomas Gillespie, Michael Barnett, P.E., D.CE, and Melissa Burns, P.E., GHD, Savannah, GA, Mobile, AL, and Orlando, FL, Mark Zanardi, and David Juelle, Patrick Kenning, and Jon Neiman, CHC, Miami, FL, St. Augustine, FL and Brunswick, GA

1:30 p.m.

Shell Hash: A Nature Based Solution for Beachfront Coastal Resiliency in St. Johns County?

Camden Dean and William Dally, Ph.D., P.E., University of North Florida, Jacksonville, FL

1:50 p.m.

Incorporation of Dunes into Federal Projects

Will Reilly, P.E., U.S. Army Corps of Engineers, Jacksonville District, FL

2:10 p.m.

FDEP's Annual Inlet Report

William "Guy" Weeks and Greg Garis, Florida Department of Environmental Protection, Tallahassee, FL

2:30 p.m.

The Tragedy of Hurricane Ida and the Triumph of Louisiana's Barrier Islands

Michael Poff, P.E., Coastal Engineering Consultants, Inc., Bonita Springs, FL

2:50 p.m.

A Tribute to Honor Scott Liggett, Presented by Chris Creed

3:00 p.m. Professional Exchange Break (30 Minutes)

3:30 p.m.

Presentation of the FSBPA 2021 Richard E. Bonner – Jacqueline J. Keiser Award to Matthew Schrader

3:40 p.m.

Session Sponsor Recognition

Walter Crabtree, Vulcan Materials Inc.

Session sponsored by



3:45 p.m.

The South Amelia Island Shore Stabilization Project: Project Maintenance and Borrow Area Development at Nassau Sound

Albert Browder, Ph.D., P.E., D.CE, Steven Howard, P.E., D.CE, William Hobensack, P.E., and Sergio Peña, Olsen Associates, Inc., Jacksonville, FL

4:05 p.m.

Engineering with Nature: Mangroves in Green-Gray Systems for Overtopping Reduction

Tori Tomiczek, Ph.D., United States Naval Academy, Annapolis, MD, Dan Cox, Ph.D., Pedro Lomonaco, Ph.D., Kayla Ostrow, and William Mitchel, P.E., Oregon State University, Corvallis, OR, Esteban Biondi, P.E., Applied Technology and Management, Inc., West Palm Beach, FL, and Kiernan Kelty, CBE Eco Engineering, Santa Cruz, CA

4:25 p.m.

Navigating Barriers: Planning Civil Works Projects with Coordination of the Coastal Barriers Resources Act (CBRA)

Michael Ornella II, U.S. Army Corps of Engineers, Jacksonville District, FL

4:45 p.m.

The 2021 Longboat Key Beach Construction Season Part II (The Technical Side)

Krista Egan, P.E. and Albert Browder, Ph.D., P.E., D.CE, Olsen Associates, Inc., Jacksonville, FL and Charles Mopps, Town of Longboat Key, FL

5:05 p.m.

Adjourn



**NORFOLK DREDGING
C O M P A N Y**

Since 1899

Sessions sponsored by

Thursday, February 3, 2022

CONCURRENT SESSION A-1

8:05 a.m. to 9:45 a.m.

8:05 a.m.

Examining Sediment Properties of Various Borrow Sources and the Potential Influences on Sea Turtle Nesting and Hatching Success

Raquel Valdes, Master's Candidate, Florida Atlantic University, Boca Raton, FL

8:25 a.m.

Sea Turtle Nesting and Beach Dynamics: A Case Study on Three Southeast Florida Beaches

Ping Wang, Ph.D., University of South Florida, Tampa, FL, Robbin Trindell, Ph.D., Sarah Burke, Colin Shea, and Tomo Hiram, Florida Fish and Wildlife Conservation Commission, Tallahassee, FL, and David Thompson and Rangley Mickey, U.S. Geological Survey, St. Petersburg, FL

8:45 a.m.

Sedimentology and Beach Substrate Temperature Influences on Sea Turtle Nesting

Jyothirmayi Palaparathi, Ph.D. Student and Tiffany Roberts Briggs, Ph.D., Department of Geosciences, Florida Atlantic University, Boca Raton, FL

9:05 a.m.

Interpretation to Implementation: Putting the Updated Model Lighting Ordinance for Sea Turtle Protection into Practice
Stacey Gallagher, Sea Turtle Conservancy, Gainesville, FL

9:25 a.m.

East Naples Bay – Dredging and Rock Removal Project
Matthew Starr, P.G. and Jeff Tabar, P.E., D.CE, Stantec Consulting Services, Laurel, MD

9:45 a.m.

Professional Exchange Break

CONCURRENT SESSION B-1

8:05 a.m. to 9:45 a.m.

8:05 a.m.

How Well Have Florida Inlet Management Plans Worked to Continue Sand Flow?

James Houston, Ph.D., U.S. Army Engineer Research and Development Center, Vicksburg, MS

8:25 a.m.

South Lake Worth Inlet: Life Cycle of an IMP Update

Dave Swigler, P.E., Department of Environmental Resources Management, Palm Beach County, FL and Ty Amorosano and Guy Weeks, Florida Department of Environmental Protection, Tallahassee, FL

8:45 a.m.

Innovative Systems-Approach to Understanding Southeast Florida's Navigation and Coastal Storm Risk Management Projects and Identifying Solutions to Increase Coastal Resiliency and Regional Sediment Management

Laurel Reichold and Drew Condon, Ph.D., P.E., U.S. Army Corps of Engineers, South Atlantic Division and Jacksonville District, FL

9:05 a.m.

Evolution of the Federal Standard: Implications for RSM Implementation

Laurel Reichold and Clay McCoy, Ph.D., U.S. Army Corps of Engineers, Jacksonville District, FL

9:25 a.m.

Numerical Modeling in Support of the St. Lucie Inlet Sediment Budget

John Ramsey, P.E., Matthew Doelp, P.E., and Sean Kelley, P.E., Applied Coastal Research and Engineering, Inc., Mashpee, MA, Stacey Roberts, Atkins, Sarasota, FL, and Kathy FitzPatrick, P.E. and Jessica Garland, Martin County, Stuart, FL

9:45 a.m.

Professional Exchange Break

Thursday, February 3, 2022

CONCURRENT SESSION A-2

10:15 a.m. to 11:55 a.m.

10:15 a.m.

The Brevard County Shore Protection Project: A Novel Approach
Patrick Snyder, P.E., U.S. Army Corps of Engineers, Jacksonville District, FL

10:35 a.m.

2021 Phipps Beach Nourishment and Dune Construction, A Case Study in Sand Stockpiling and Beach/Dune Joint Construction
Michael Jenkins, Ph.D., P.E., ATM, a Geosyntec Company, West Palm Beach, FL and Robert Weber, Town of Palm Beach, FL

10:55 a.m.

Kennedy Space Center Dune Restoration
Michael Jenkins, Ph.D., P.E., ATM, a Geosyntec Company, West Palm Beach, FL and Kim Rivera, P.E., Jones Edmunds, Titusville, FL

11:15 a.m.

2021 Captiva Island Beach Renourishment Project
Nicole Sharp, P.E., APTIM, Boca Raton, FL, Daniel Munt and Jennifer Nelson, Captiva Erosion Prevention District, Captiva, FL, and Thomas Pierro, P.E., D.CE, Coastal Protection Engineering, Boca Raton, FL

11:35 a.m.

A History of Nourishment on Sand Key and a Glimpse at the Future
John Bishop, Ph.D., Environmental Management Division, Pinellas County, Clearwater, FL

12:00 p.m.

Lunch (1 Hour)

CONCURRENT SESSION B-2

10:15 a.m. to 11:55 a.m.

10:15 a.m.

The Marine Minerals Program: Informing Long-Term Restoration Planning Through Resource Management
Jessica Mallindine, Marine Minerals Program, Bureau of Ocean Energy Management, New Orleans, LA

10:35 a.m.

Overview of Collaboration Efforts Between the BOEM Gulf of Mexico Region Marine Minerals Program and Regional Partners
Jennifer Steele, Ph.D., Marine Minerals Program, Bureau of Ocean Energy Management, New Orleans, LA

10:55 a.m.

The Marine Minerals Program: Informing Management Decisions Through Innovative Science
Ana Rice, Ph.D., Marine Minerals Program, Bureau of Ocean Energy Management, New Orleans, LA

11:15 a.m.

Ecological Function and Recovery of Canaveral Shoals
Jennifer Bucatari, Ph.D., Marine Minerals Program, Bureau of Ocean Energy Management, Sterling, VA

11:35 a.m.

Integrating, Disseminating, and Visualizing Marine Minerals Information Products at the National Scale to Support Resilient Coastal Communities
Lora Turner and Kerby Dobbs, Marine Minerals Program, Bureau of Ocean Energy Management, Sterling, VA, Alexa Ramirez, Quantum Spatial, St. Petersburg, FL, and Ariel Kay, Bureau of Ocean Energy Management, New Orleans, LA

12:00 p.m.

Lunch (1 Hour)

Thursday, February 3, 2022

Sessions sponsored by



CONCURRENT SESSION C-1

1:00 p.m. to 3:05 p.m.

1:00 p.m.

Session Sponsor Recognition - Michael Dombrowski, MRD Associates, Inc.

1:05 p.m.

Quantifying Storm Impacts on a Coastal Dune using UASs: A Case Study of Hurricane Dorian in the Bahamas
Leonard Barrera Allen, P.E., Cummins Cederberg, Inc., South Miami, FL

1:25 p.m.

Variations in Post-Storm Assessment Methodologies with a Look Forward to Concepts for the Future
Thomas Pierro, P.E., D.CE, Coastal Protection Engineering, Boca Raton, FL and Ralph Clark, P.E., Office of Resilience and Coastal Protection, Florida Department of Environmental Protection, Tallahassee, FL

1:45 p.m.

South Florida's Growing Need for Mitigation Reefs and Sand Resources – How Can We Make it Work?
Barbara Nist, P.G. and Matt McClellan, Ph.D., U.S. Army Corps of Engineers, Jacksonville District, FL

2:05 p.m.

A Little More Permanent: Monitoring Update of the Upham Beach Stabilization Project
Zachary Westfall, Environmental Management Division, Pinellas County, Clearwater, FL

2:25 p.m.

When a Project Performed Better than Expected – Beach Nourishment at Sagaponack and Bridgehampton, Town of Southampton, Long Island, New York
Haiqing Liu Kaczowski, Ph.D., P.E. and Timothy Kana, Ph.D., P.G., Coastal Science & Engineering, Columbia, SC and Aram Terchunian, First Coastal Consulting Corporation, Westhampton Beach, NY

2:45 p.m.

Getting the Most Out of Monitoring and Modeling Data: Designing for the 1st Re-Nourishment of the Multi-Town Project in Dare County, NC
Ken Willson and Adam Priest, P.E., Coastal Protection Engineering, Wilmington, NC

3:05 p.m.

Professional Exchange Break

CONCURRENT SESSION D-1

1:00 p.m. to 3:05 p.m.

1:00 p.m.

Session Sponsor Recognition - Michael Dombrowski, MRD Associates, Inc.

1:05 p.m.

The Engineering Analytics Behind FDEP's New SLIP Tool
Angela Schedel, Ph.D., P.E., Taylor Engineering, Inc., Jacksonville, FL and Alex Reed, Director, Office of Resilience and Coastal Protection, Florida Department of Environmental Protection, Tallahassee, FL

1:25 p.m.

County-Wide Baseline Coastal Analysis and Coastal Resilience Planning
Jenna Phillips, Angela Schedel, Ph.D., P.E. and Wendy Laurent, P.E., Taylor Engineering, Jacksonville, FL and Philadelphia, PA

1:45 p.m.

Implementing a Model-based Coastal Adaptation Framework at Captiva, FL
Cheryl Hapke, Ph.D. and David Revell, Ph.D., and Matt Jamieson and Craig Jones, Ph.D., Integral Consulting, St. Petersburg, FL and Santa Cruz, CA

2:05 p.m.

Martin County Four Mile Beach Resilience
Wendy Laurent, P.E. and Angela Schedel, Ph.D., P.E., Taylor Engineering, Philadelphia, PA and Jacksonville, FL, and Kathy FitzPatrick, P.E. and Jessica Garland, Martin County, Stuart, FL

2:25 p.m.

Static vs. Dynamic Sea Level Rise Inundation Mapping in Hollywood, Florida
Jordon Cheifet, P.E., CFM and Leonard Barrera Allen, P.E., Cummins Cederberg, Inc., Jupiter and South Miami, FL

2:45 p.m.

Analyzing the Impact of Extreme Waves on Wave Loads and Overtopping Rates on Piers
Edwin Rajeev and Alberto Canestrelli, Ph.D., University of Florida, Gainesville, FL and Leonard Barrera Allen, P.E., Cummins Cederberg, Inc., South Miami, FL

3:05 p.m.

Professional Exchange Break

Thursday, February 3, 2022

CONCURRENT SESSION C-2

3:35 p.m. – 5:15 pm

3:35 p.m.

Waves, Sand, and Hardbottom

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

3:55 p.m.

The Role of Infragravity Waves in Coastal Processes with Numerical Modeling Results from Southwest France Compared to Potential Applications along Florida's Atlantic Coast

Dylan Nestler, P.E., Coastal Protection Engineering, Boca Raton, FL and Volker Roeber, Ph.D., Université de Pau et des Pays l'Adour

4:15 p.m.

Installation and Start-up of the New Beachfront Data Collection Facility at the GTM-NERR, St. Johns County, FL

William Dally, Ph.D., P.E., University of North Florida, Jacksonville, FL

4:35 p.m.

The Role of Numerical Modeling in Resiliency Studies: Using Delft3D Flexible Mesh to Evaluate Flooding and Sea Level Rise Adaptation Strategies in Florida, North Carolina, and Louisiana

Lindino Benedet, Ph.D. and Akash Sahu, Coastal Protection Engineering, Boca Raton, FL

4:55 p.m.

Talbert Channel and Huntington Beach Channel Sheet Pile Repair Project, Orange County, CA

Victor Tirado, P.E. and Satish Chilka, P.E., GHD, Inc., Hilton Head, SC and Concord, CA, and Amit Verma, Orange County Flood Control District, CA

5:15 p.m.

Adjourn

CONCURRENT SESSION D-2

3:35 p.m. – 5:15 pm

3:35 p.m.

The Importance of Site-Specific Wave Data Collection in Conducting Beach Erosion Pathology

William Dally, Ph.D., P.E., Surfbreak Engineering Sciences, Ponte Vedra Beach, FL, Yong Chen, Ph.D., P.E., and Timothy Blankenship, P.E., Moffatt and Nichol, Inc., Norfolk, VA and Miami, FL

3:55 p.m.

Opportunities for Borrow Area Reuse at Hilton Head Island, SC

N. Zachary Bedell, P.E. and Chris Creed, P.E., D.CE, Olsen Associates, Jacksonville, FL

4:15 p.m.

Sustaining the Nassau County Shoreline through Maintenance Dredging of the Naval Submarine Base Kings Bay Entrance Channel

Jennifer Coor, Ph.D., P.G., Viktoria Bogina, P.E., and Mike Hollingsworth, U.S. Army Corps of Engineers, Jacksonville District, FL

4:35 p.m.

Analyzing Changes in the Exceedance of Water Level Thresholds in Coastal Tide Gages within FDOT's District 1 Counties

Sahar Haddadian, Ph.D. and Leonard Barrera Allen, P.E., Cummins Cederberg, Inc., Ft. Lauderdale and South Miami, FL

4:55 p.m.

Atlantic Intracoastal Waterway (AIWW) Sediment Sampling and Analysis

Thomas Gillespie and Nicholas Bragaia, GHD, Inc., Savannah, GA and Wellington, FL; Anna Godfrey and Erica Janocha, U.S. Army Corps of Engineers, Savannah District; GA, David Perkey and Danielle Tarpley, Coastal Hydraulics Laboratory, U.S. Army Engineer Research and Development Center, Vicksburg, MS; Neil Wicker, Athena Technologies, McClellanville, SC; and Marc Gutterman, Hana Engineers, Norfolk, VA

5:15 p.m.

Adjourn

Friday, February 4, 2022

CLOSING GENERAL SESSION

8:05 a.m. to 12:05 p.m.

8:05 a.m.

Application of the USACE International Guidelines on Natural and Nature-Based Features for Beaches and Dunes

Chris Mack, P.E., D.CE, PMP and Jeff Tabar, P.E., D.CE, Stantec Consulting Services, North Charleston, SC and Laurel, MD

8:25 a.m.

Developing a List of Approved Equivalent Living Shoreline Products

Casey Connor, P.E. and Josh Carter, P.E., Mott MacDonald, Jacksonville, FL and Austin, TX, and Micaela Coner, PMP, Louisiana Coastal Protection and Restoration Authority, Baton Rouge, LA

8:45 a.m.

Coastal Conditions Analysis for Audubon Islands Living Shoreline Projects, Pinellas County, FL

Bryan Flynn, P.E., Tom Ries, Tiffany Cheng, P.E., and Yashar Rafati, Ph.D., Environmental Science Associates, Tampa, FL, Mark Rachal, Audubon Florida, Tampa, FL, and Erik Madsen, P.E., Landon, Moree & Associates, Palm Harbor, FL

9:05 a.m.

Cedar Island Stabilization and Marsh Construction

Todd DeMunda, P.E. and Jeff Tabar, P.E., D.CE, Stantec Consulting Services, Rockledge, FL and Laurel, MD and Christopher Hein, Department of Physical Sciences, Virginia Institute of Marine Science, Gloucester Point, VA

9:25 a.m.

Seagrass Mitigation Through Wind Wave and Boat Wave Reduction

Erin Hodel and Mark Fonseca, Ph.D., CSA Ocean Sciences Inc., Stuart, FL and Phillip Todd, Atlantic Reefmaker, Wilmington, NC

9:45 a.m.

A Review of Nearshore Hardbottom Edge Spatial Variability and Classification of Associated Benthic Communities in Broward County, Florida

Greg Ward, Cheryl Miller, and Angela Delaney, Coastal Eco-Group, Deerfield Beach, FL and Jessica Ward, Environmental Planning and Community Resilience Division, Broward County, FL

10:05 a.m.

Professional Exchange Break

10:35 a.m.

Session Sponsor Recognition

Kevin Hennessy, Lewis, Longman & Walker, PA

Session sponsored by



10:40 a.m.

Florida Coastal Regulation – A Line in the Sand

Brett Moore, P.E., D.CE, Humiston & Moore Engineers, Naples, FL

11:00 a.m.

Beach Nourishment – Data, Risks, & Planning from a Contractor's Perspective

Kristen Kelley, P.E., Manson Construction Company, Jacksonville, FL

11:20 a.m.

Evolution and Future of Dredging Projects from an Environmental Standpoint: A 2020 South Atlantic Regional Biological Opinion (SARBO) Perspective

Kristen Donofrio, U.S. Army Corps of Engineers, Jacksonville District, FL

11:40 a.m.

2020 SARBO: Applying Johnson's Seagrass Project Design Criteria to Civil Works Projects

Paul DeMarco, U.S. Army Corps of Engineers, Jacksonville District, FL

12:00 p.m.

The 2020 South Atlantic Regional Biological Opinion (SARBO) and How it Applies to Dredge and Fill Projects on the East Coast of Florida

Stacy Buck, Coastal Protection Engineering, Boca Raton, FL and Linda Knoeck, U.S. Army Corps of Engineers, Palm Beach Gardens, FL

12:20 p.m.

Adjourn