2024 Florida Resilience Conference

featuring the 67th FSBPA Annual Meeting

September 11-13 Hyatt Regency Coconut Point Bonita Springs, FL

Wednesday, September 11

Opening General Session 1:00 pm – 3:00 pm

1:00 pm Welcome and Opening Remarks Lee County Board of County Commissioners

1:15 pm

Legislative Keynote: Florida's Environmental Outlook on Policy and Funding *To be announced*

1:35 pm

Creating a More Resilient Florida Moderated by: Wesley Brooks, PhD, Chief Resilience Officer, State of Florida, Tallahassee, FL *Florida Agency speakers invited*

2:25 pm

Charting the Course: FDEP Updates, Strategic Goals, and a Preview of Legislative Priorities Adam Blalock, Deputy Secretary, Florida Department of Environmental Protection, Tallahassee, FL

2:40 pm *To be announced*

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Wednesday, September 11 Session: A1-Smart Planning

3:25 pm – 5:25 pm

3:25 pm

A Statewide Vulnerability Assessment to Achieve Florida's Legislative Mandate

Michael DelCharco, Senior Vice President Coastal Strategies, Taylor Engineering, Inc., Jacksonville, FL; Eddy Bouza, Program Management Director, Resilient Florida, Florida Department of Environmental Protection, Tallahassee, FL; and Justin Gregory, Senior Manager / Vice President-Water Resources Engineering Jones Edmunds, Gainesville, FL

3:45 pm

Regional Resiliency Planning in Northeast Florida: Approaches and Resources Fara Ilami, Regional Resiliency Manager, Northeast Florida Regional Council, Jacksonville, FL

4:05 pm

Improving Statewide Resilience in Florida: The First 3 Years of the Resilient Florida Program Hanna Tillotson, Grants Administrator, Florida Department of Environmental Protection, Tallahassee, FL; and Krista Slyter, Planning & Policy Administrator, Florida Department of Environmental Protection, Tallahassee, FL

4:25 pm

Adaptation isn't Dumb Luck Mitchell Austin, Urban Design Manager, City of Punta Gorda, Punta Gorda, FL

4:45 pm

PANEL - Resilient Communities Through Innovation and Partnerships Moderator: Pinar Balci, NYC Water/Deputy East Water Lead, WSP USA Corp, New York, NY Speakers to be announced

5:25 pm Adjourn

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Wednesday, September 11

Session: B1-Beaches

3:25 pm – 5:25 pm

3:25 pm

Navigating the Storm: Emergency Repair and Funding Strategies for Florida's Beaches

Steve Boutelle, Marine Operations Manager, Lee County, Fort Myers, FL; Alex Reed, Director, Office of Resilience and Coastal Protection, Florida Department of Environmental Protection, Tallahassee, FL; and Dana Souza, City Manager, City of Bonita Beach, FL

3:55 pm

Sanibel Island Beach/Dune Restoration Program post Hurricane Ian Brett Moore, P.E., D.CE, President, Humiston and Moore, Naples, FL

4:15 pm

Recent Updates on FEMA Beach Projects

Bob Glassen, Beach Specialist, Public Assistance Division, FEMA Region IV, Tallahassee, FL

4:35 pm

Managing Byproducts of Screened Sand on Beach Nourishment Projects in Florida

Moderator: Lisa Armbruster, Beach Management Consultant, Bay County Tourist Development Council, Panama City Beach, FL

- Jennifer Bucatari, Oceanographer, Bureau of Ocean Energy Management, Sterling, VA
- Gregory Garis, Program Administrator, Florida Department of Environmental Protection, Tallahassee, FL
- William Reilly, P.E., Chief, Waterways Branch, USACE Jacksonville District, FL
- Andrew Studt, Program Supervisor, Coastal Resources Management, Palm Beach County, FL

5:25 pm Adjourn

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Session: C1-Energy

3:25 pm – 5:25 pm

3:25 pm

Planning for Florida's Energy Future: HB 1645 - Energy Resources

Bobby Payne, Representative, Florida House of Representatives, Chair of House Infrastructure Strategies Committee, Palatka, FL

3:45 pm

Utility-scale Implementation of HB 1645 - Energy Resources FPL, Duke, TECO, Chesapeake Utilities, FMPA *This will be a panel of utility presenters. Speakers to be announced*

4:25 pm

Microgrids: Resilient, Renewable Power that Sustains Critical Local, State and Federal Operations Colonel Jason Kirk, VP Federal Solutions Director and Resilience Programs, Black & Veatch, Jacksonville, FL

4:45 pm

Let the Sun Shine in: Is there a Future for Rooftop Solar Energy in Florida Ralph DeMeo, Shareholder, Guilday Law, Tallahassee, FL

5:05 pm

Decarbonization through Superconductivity Jeffrey "Jeff" Whalen, PhD, CEO, Magnetics Corportation, Tallahassee, FL

5:25 pm Adjourn

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Wednesday, September 11 Session: D1-Infrastructure

3:25 pm - 5:25 pm

3:25 pm

Mission Assurance through Community Resilience: Florida Case Studies

Sarah Marrs, Resilience Project Manager, Jacobs, Fort Lauderdale, FL; and Susy Torriente; Global Principal, City Resilience, Project Director, Jacobs, Miami, FL

3:45 pm

Hillsborough County's Approach to an Integrated Vulnerability Assessment, Adaptation Plan, and Local Mitigation Strategy

Troy Salisbury, Hazard Mitigation, Sustainability and Resiliency Manager, Hillsborough County, Tampa, FL; and Taryn Sabia, Director of the Florida Center for Community Design + Research and Assistant Dean of Research for the College of the Arts, USF, Tampa, FL

4:05 pm

Adapting Naples: Building and Climate Ready and Resilient City

Erica Harris, Climate Adaptation Specialist, Aecom, Fort Lauderdale, FL; and Natalie Hardman, Natural Resources Manager, City of Naples, FL

4:25 pm

Innovative Approach to Integrating Resilient Infrastructure into a Barrier Island Community Roland Samimy, PhD, Chief Resilience and Sustainability Officer, Village of Key Biscayne, Village of Key Biscayne, FL; and Colleen Blank, Capital Program and Grants Manager, Village of Key Biscayne, FL

4:45 pm

Broward County's Integrated Approach to Risk Assessment and Resilience Planning Gregory Mount, Assistant Chief Resilience Officer, Broward County, Fort Lauderdale, FL

5:05 pm

CASE STUDY: Creating a Route to Climate Resilience for Coastal Infrastructure

Craig Wells, Florida Client Services Director and Curtis Burkett, Senior Project Manager, Freese and Nichols, Tampa, FL

5:25 pm Adjourn

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<u>Thursday, September 12</u> Session: A2-Smart Planning

8:30 am-10:10 am

7:45 am Professional Exchange Break

8:30 am

Resilience Funding and Infrastructure Implementation for a Resilient Coastal Community: 20 Years of Beaches, Back Bays, Rivers and Stormwater In Norfolk, Virginia

Brian Joyner, Senior Coastal/Hydraulic Engineer, Moffatt & Nichol, Norfolk, VA; and Kelli Cunningham, Waggonner & Ball, New Orelans, LA

8:50 am

HMA Grants - An Overview

Gary O'Neal, Director of Mitigation Grant Servcies, Tetra Tech, Walker, LA

9:10 am Mitigating Future Flooding Noah Taylor, Community Rating System Coordinator, Sarasota County Government, Sarasota, FL

9:30 am

MacArthur Boulevard: Protected from the Sea and River Amy Eason, Environmental Resource Engineer, Martin County Board of County Commissioners, Stuart, FL

9:50 am

Cumulative Substantial Improvement Tracking: Addressing the Challenge of Day-to-Day Enforcement Conn Cole, Hazard Mitigation Lead, Forerunner, New York, NY

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Thursday, September 12 Session: B2-Beaches

8:30 am-10:10 am

7:45 am Professional Exchange Break

8:30 am

U.S. Army Corps of Engineers Jacksonville District Commander's Update Colonel Brandon Bowman, Commander, U.S. Army Corps of Engineers, Jacksonville, FL

8:50 am

Perpetual Easements in Federal Beach Projects: Balancing Requirements and Local Government Concerns

- Charlie Hunsicker, Director, Manatee County, Bradenton, FL
- Mike McGarry, Beaches Boating & Waterways Program Manager, Brevard County, Viera, FL
- Milan Mora, PE, Chief, Water Resources Branch, Jacksonville District, U.S. Army Corps of Engineers

9:20 am

Beach Management Trends & Updates from the State Perspective

Lainie Edwards, PhD, Deputy Director, Office of Resilience and Coastal Protection, Florida Department of Environmental Protection, Tallahassee, FL

9:40 am

State Strategies for Effective Use of Sand Resources at Florida Inlets

- Al Browder, PhD, PE, Vice-President, Olsen Associates, Jacksonville, FL
- Jessica Garland, Coastal Program Manager, Martin County, Stuart, FL
- William "Guy" Weeks, Planning Manager, Office of Resilience and Coastal Protection, Florida Department of Environmental Protection, Tallahassee, FL

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Thursday, September 12 Session: C2-Energy

8:30 am-10:10 am

7:45 am Professional Exchange Break

8:30 am

Leveraging Florida C-PACE to Enhance the Resiliency and Sustainability of Privately-owned/Commercial Buildings

Devesh Nirmul, Executive Director, Counterpointe Sustainable Real Estate (A Mass Mutual Company), Brandon, FL

8:50 am

LEED: Integrating Prevention and Response for Resilient Built Environments

- Philip Donovan, AIA LFA, Partner, Director Regen CoLab, Little Diversified Architectural Consulting, Orlando, FL
- Ian Lahiff, Director of Energy and Carbon, USGBC, Washington, DC
- Kristy Walson, PE, LEED Fellow, BEMP, Principal, Branch Pattern, Orlando, FL

9:40 am

The Benefits of Public-Private Partnerships (PPP) in Sustainable Water/Energy Nexus Projects Lucas Botero, Principal Process Engineer/Manager, Black & Veatch, Coral Springs, FL

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<u>Thursday, September 12</u> Session: D2-Infrastructure

8:30 am-10:10 am

7:45 am Professional Exchange Break

8:30 am Funding Solutions for Resilience Speakers to be announced

9:00 am

Legal Policy and Project Case Studies in Vulnerability Planning and CRS Watershed Planning Erin Deady, President, Erin L. Deady, PA, Delray Beach, FL

9:20 am

Hybrid Living Shorelines in South Florida – Design Considerations, Legacy Regulatory Framework, and Needed Policy Changes

Danielle Irwin, Senior Director, Cummins Cederberg, Tallahassee, FL; and Leonard Barrera Allen, Senior Engineer, Cummins Cederberg, Miami, FL

9:40 am

Miami-Dade County Back Bay Coastal Storm Risk Management Study

- Lynette Cardoch, Director, Resilience and Adaptation, Moffatt and Nichol, Miami, FL
- Patricia Gomez, PhD, PE, Interim Chief Resilience Officer and Director of Energy, Miami-Dade County Office of Resilience, Miami, Florida
- Christian Kamrath, Miami-Dade County Office of Resilience, Miami, FL
- James Murley, Miami-Dade County Office of Resilience, Miami, FL

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Thursday, September 12 Session: A3-Smart Planning

10:40 am-12:10 pm

10:40 am

Promoting Community Resilience to Natural Hazards Through Governance, Education, and Partnership Building

Emily Powell, Assistant State Climatologist, Florida State University, Florida Climate Institute, Tallahassee, FL; and Alicia Betancourt, University of Florida IFAS Extension, Key West, FL

11:00 am

Coastal Connections Sustaining Hillsborough and Pinellas Counties for Future Resilience Alexandria Howerton, Sustainability Program Manager, Hillsborough County, Tampa, FL and Lauren Wolf, Sustainability & Resiliency Coordinator, Pinellas County, Clearwater, FL

11:20 am

Cedar Key ShOREs – a **Model for Co-Designing Nature-Based Solutions in a Small Coastal Town** Amer Abukhalaf, Postdoctoral Researcher, University of Florida, Gainesville, FL

11:40 am

Miami-Dade Countywide Resilience Hub Network Strategy

- Karina Castillo, Program Manager-Communications, Engagement and Outreach, Miami-Dade County Office of Resilience, Miami, FL
- Sarah Marrs, Resilience Project Manager, Jacobs, Fort Lauderdale, FL
- Richard Miller, Project Manager, Arsht-Rock, Washington, DC
- Susy Torriente; Global Principal, City Resilience, Project Director, Jacobs, Miami, FL

12:10 pm Session Adjourns

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Thursday, September 12 Session: B3-Beaches

10:40 am-12:10 pm

10:40 am

The Recreational and Economic Value of Florida Beaches

James Houston, PhD, Director Emeritus, Engineer Research and Development Center, Corps of Engineers, Ponte Vedra, FL

11:00 am

Sea Turtle Nesting on Florida's Managed Beaches: What Have We Learned?

Robbin Trindell, PhD, Biological Admistrator, Imperiled Species Management, Florida Fish & Wildlife Conservation Commission, Tallahassee, FL

11:25 am

Conserving Florida's Underwater Treasures: Coral Reefs and Aquatic Preserves Alex Reed, Director, Florida Department of Environmental Protection, Tallahassee, FL

11:45 am

USACE Jacksonville District's Role in Imperiled Species Management for Coastal Projects, Highlighting the Recently Designated Queen Conch

Gretchen Ehlinger, PhD, Chief, Environmental Branch, Planning and Policy Division, U.S. Army Corps of Engineers, Jacksonville, FL

12:05 pm Annual Membership Meeting

12:10 pm Session Adjourns

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Thursday, September 12 Session: C3-Energy

10:40 am-12:10 pm

10:40 am Decarbonization of the Heavy-Duty Transportation Industry Justin Ahn, Lead Sustainability Manager, WSP, Houston, TX *Other speakers to be announced*

11:30 am Transportation Electrification: Managing Mixed Fuels Speaker to be announced, Florida Department of Transportation, Tallahassee, FL

11:50 am FPL EVolution: Plugging into Florida's Future *Speaker to be announced*

12:10 pm Session Adjourns

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10:40 am-12:10 pm

10:40 am

Resilience Updates and Data Applications for Informed Decision-Making in Transportation

Tony Frye, State Transportation Resilience Officer, Office of Environmental Management and Brett Wood, Surveying and Mapping, Florida Department of Transportation, Tallahassee, FL

11:05 am

Post-Ian Impacts on Facilities in District 1

Brett Setchell, Drainage Engineer, Florida Department of Transportation, Bartow, FL

11:20 am

Innovations for Corridor Flood Risk Protection: The Monroe County Coastal Storm Risk Study Sebastian Ruiz, Planning and Environmental Management Office, Florida Department of Transportation, Miami, FL

11:35 am Q&A

11:40 am

Restoring and Re-creating Nature to save Miami's Blue Heart: A Panel Discussion

- Aida Curtis, President, Curtis & Rogers Design Studio, Miami, FL
- Jessica Bruso, Green Stormwater Infrastructure Specialist Green Stormwater Infrastructure Specialist, Ferguson Waterworks, Cocoa Beach, FL
- Liza Herrara, PE, Manager, Stormwater Engineering Section, Department of Transportation and Public Works, Miami-Dade County, Miami, FL
- Nancy Jackson, Biscayne Bay Program Director, Miami-Dade County, Miami, FL

12:10 pm Session Adjourns

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Friday, September 13 Session: A4-Smart Planning

8:30 am-10:10 am

7:45 am Professional Exchange Break

8:30 am

Federal Resources for Understanding and Planning for Sea Level Rise Heidi Stiller, South Regional Director, NOAA Office for Coastal Management, St. Petersburg, FL

8:50 am

Bridging the Gap Between Resilience Planning and Effective Implementation Strategies Stephen Bourne, Project Director, AtkinsRealis, Atlanta, GA

9:10 am

From Data to Decisions: Using Artificial Intelligence and Remote Sensing to Guide Nature-Based Solutions in Coastal Areas Matthew Campbell, President, Natrx, Inc., Raleigh, NC

9:30 am

JaxTwin: An Urban Digital Twin to Guide Data-Driven, Proactive Investments to achieve a Thriving City Ecosystem and a Foundational Step Towards Florida's Digital Twin

Changjie Chen, Assistant Scientist and Jeff Carney, Director and Associate Professor, University of Florida, Florida Institute for Built Environment Resilience (FIBER) Gainesville, FL

9:50 am

Gulf South Studio-Innovation in Multidisciplinary Coastal Design + Planning Andrea Galinski, Assistant Professor, University of Florida, Gainesville, FL

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Session: B4-Beaches

8:30 am-10:10 am

7:45 am Professional Exchange Break

8:30 am

Get Off Of My Beach - A Customary Use Update

Diana Ferguson, Shareholder, Rutledge Ecenia, Tallahassee, FL; and David Theriaque, Esquire, Theriaque & Spain, Tallahassee, FL

9:10 am

Estero Island Beach Nourishment and Hurricane Recovery

Michael Poff, PE, President, Coastal Engineering Consultants, Bonita Springs, FL and Chadd Chustz, Environmental Project Manager, Town of Fort Myers Beach, FL

9:30 am

Southwest Florida's Coastal Vulnerabilities Revealed by Impacts from Hurricane Ian: Lessons for Building Resilience Capacity

Michael Savarese, PhD, Professor, Florida Gulf Coast University, Fort Myers, FL

9:50 am

Evaluating beach dune vegetation loss and regeneration following Hurricane Ian Jeannine Richards, PhD, Assistant Professor, Florida Gulf Coast University, Fort Myers, FL

10:10 am

Professional Exchange Break

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Session: C4-Energy

8:30 am-10:10 am

7:45 am Professional Exchange Break

8:30 am

Collaboration to Fuel Carbon Pollution Reduction Investment in Florida Janet Bowman, Senior Policy Advisor/Climate Policy, The Nature Conservancy, Tallahassee, FL *Other speaker to be announced*

9:00 am

Takeaways from the City of Tampa's First Climate Action and Equity Plan

Brian Cook, Director of Urban Design and Resilience, Applied Sciences, Tampa, FL; and Whit Remer, Sustainability and Resilience Officer, City of Tampa, FL

9:20 am

Clean Energy Transition with Hydrogen

Brian McCarthy, National Hydrogen Market Lead, WSP, New York, NY Other speaker to be announced

9:50 am

Renewable Natural Gas from Landfill Gas: A Path to Florida's Energy Resilience Alicia Fanni, Sales and Marketing Analyst, Waga Energy, Miami, FL

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8:30 am-10:10 am

7:45 am Professional Exchange Break

8:30 am

City of West Palm Beach Currie Park Revitalization: Transforming Underutilized City-Owned Spaces for Living Shorelines

Gina Chiello, Senior Director, Cummins Cederberg, Inc., Jupiter, FL

8:50 am

Community-Based Co-Design Using Nature-Based Solutions to Meet Climate Change Challenges along Urban Hillsborough River, Tampa, Florida

Ping Wang, PhD, Professor, University of South Florida, Tampa, FL; and Brian Cook, Director of Urban Design, Applied Sciences Consulting Inc., Tampa, FL

9:10 am

Inclusive Adaptation: Flood Resilience with a Social Equity Lens

Angela Schedel, PhD, PE, Director of Coastal Programs, HDR, Jacksonville, FL; and Sharon Wright, Florida Resilience Practice Lead, HDR Engineering, St. Petersburg, FL

9:30 am

Promising Practices for Effective Stakeholder Engagement Janet Luce, Project Manager, AtkinsRéalis, Melbourne, FL

9:50 am

Integrating Community Resilience and Environmental Stewardship: "The Way Resilience Looks" Forough Foroutan, Graduate Research Assistant, University of Florida, Gainesville, FL

10:10 am

Professional Exchange Break

D R A F T (7-10-24)

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Friday, September 13

Closing General Session 10:35 am-12:25 pm

10:35 am

Legislative Keynote: Advancing Florida's Environmental Agenda Speaker to be announced

10:55 am

What's Going on with the Weather?

David Zereden, Florida State Climatologist, Florida State University, Tallahassee, FL

11:15 am

The Planning and Resilience of Water Management in Florida

- Patrick Doty, Senior Planner/Resilience Coordinator, Southwest Florida Water Management District, Brooksville, FL
- Thomas Frick, Chief Resilience Officer, St John's River Water Management District, Palatka, FL
- Ana Carolina Coelho Maran, PhD, PE, Chief of District Resiliency, South Florida Water Management District, West Palm Beach, FL
- Kathleen Coates, PhD, PE, Deputy Director, Resource Management Division, Northwest Florida Water Management District, Havana, FL
- Leroy Marshall, PE, Chief Professional Engineer, Office of Agriculture and Environmental Projects, Suwanee River Water Management District, Live Oak, FL

11:55 am

The Florida Wildlife Corridor and Climate Resilience

Joshua Daskin, Director of Conservation, Archbold Biological Station, Venus, FL

12:15 pm Conference Adjourns