

“Lighting the Way for the Coastal Future”

CONFERENCE PROGRAM

— TUESDAY, OCT. 25 —

- 8 a.m.-5 p.m. ASBPA Short Course*: “Coastal Engineering” • Atlantic 3-4-5
This short course will present the fundamental principles underlying coastal engineering analysis and design. PDH available. * Separate fee, not included in conference registration

— WEDNESDAY, OCT. 26 —

- 8 a.m.-noon ASBPA Board of Directors’ meeting • Sea Bright
10 a.m. Registration opens

1:00-5:30 p.m. — Plenary Session • Atlantic 2/3/4/5

Moderators: Tom Herrington, Doug Gaffney & Margot Walsh, conference co-chairs

- 1:00-1:05 p.m. Conference announcements
1:05-1:15 p.m. Conference welcome — Tom Herrington, Doug Gaffney and Margot Walsh, co-chairs
1:15-1:20 p.m. Welcome to Long Branch — Hanna Mori, U.S. Sen. Cory Booker’s office
1:20-1:40 p.m. Keynote address — U.S. Rep. Frank Pallone, New Jersey
1:40-2:00 p.m. New Jersey Department of Environmental Protection — David Rosenblatt, Assistant Commissioner
2:00-2:20 p.m. “Coastal Storm Risk Management and the Corps of Engineers” — Lynn Bocamazo, Chief, Hurricane Sandy Relief Branch, U.S. Army Corps of Engineers
2:20-2:50 p.m. New York City Office of the Mayor — Curtis Cravens, Climate Policy and Programs
2:50-3:20 p.m. — Networking break
3:20-3:40 p.m. “Lessons Learned from 90 Years of Beach Preservation Advocacy” — Nicole Elko, ASBPA Vice President for Science & Technology
3:40-4:00 p.m. “Creating Resilient Coastal Landscape along Urban Coasts” — Claire Weisz, Principal-in-Charge, WXY Studio
4:00-4:30 p.m. “Sense of Place: The Jersey Shore” — Stewart Farrell, Stockton University Coastal Research Center
4:30-5:15 p.m. ASBPA Annual Meeting (all registrants can attend)
5:15-6:00 p.m. 2017 Coastal Summit organizational meeting
6:00-7:30 p.m. Opening reception and poster session • Atlantic 1 and Sea Bright

Poster session sponsored by: Stevens Institute of Technology

(S) denotes student presentation, eligible for “Best Student Poster” award

- 1 (S) — Corey Aitken, Florida Atlantic University: “Boat Wakes as Drivers of Shoreline Change on Back-Barrier Beaches”
- 2 (S) — Emma Chick, Stevens Institute of Technology: “Rip Currents Measurements with Surfzone Drifters”
- 3 (S) — Colleen Cochran, Marine Academy of Technology and Environmental Science, Ocean County, NJ: “Facts and Opinions Surrounding the Protection and Management of Developed Coastal Communities”
- 4 (S) — Ian Conery, East Carolina University: “Offshore sand resource needs, data availability and re-evaluation, and beach nourishment projects in North Carolina”
- 5 (S) — Annie Daw, University of Delaware: “Using Chirp Sub-bottom Profiles to Constrain Pre-Holocene to Modern Deposition and Erosion in the Lower Delaware Estuary”
- 6 (S) — Praneeth Gurusurthy, Stevens Institute of Technology: “Analyzing the Failure of a Dune Using SBEACH”
- 7 (S) — Adam Hatzikyriakou, Princeton University: “Simulating Storm Surge Inundation When Estimating Coastal Structure Vulnerability”
- 8 (S) — Riley Nevil, Marine Academy of Technology and Environmental Science, Ocean County, NJ: “Sands in Time: Beach Bacteria Colony Growth at Coastal Beaches Over Two Seasons”
- 9 (S) — Madeline Rubio, Florida Atlantic University: “Analysis of Southeast Florida’s Summer Beach Morphology”
- 10 (S) — Thomas Shahan, Florida Atlantic University: “Short-Term Beach Profile Change Following a Small Nourishment Project in Southeast Florida, USA”
- 11 (S) — Caleb Taube, Texas A&M University: “What is a Dune? Comparative Analysis of Approaches for Extracting Beach-Dune Morphology from Remote Sensing”
- 12 (S) — William Warren, Florida Atlantic University: “Storm-Induced Nearshore Sediment Transport”
- 13 — Michael Castelli, New Jersey Geological and Water Survey: “Significant Sand Resources Areas in State and Federal Waters Offshore Monmouth County, New Jersey”
- 14 — Kenneth Christensen, EcoShore Int’l, Inc.: “The Effect of Passive Dewatering on Hillsboro Beach, FL, in a Historic Context”
- 15 — Nicholas DeGennaro Ph.D. P.E., EcoShore Int’l Inc.: “Passive Dewatering — A Soft Way to Extend the Life of Beach Nourishments and Build Beaches”
- 16 — Emily Dhingra, AECOM: “Sea Level Rise, Erosion, and Cultural Resource Management”
- 17 — David DuMont, New Jersey DEP, Office of Coastal and Land Use Planning: “Mapping Shoreline Change to Inform Coastal Restoration Projects”
- 18 — Jamie Falcon, Ph.D., University of Maryland-Baltimore County: “Evaluating Nearshore Spinal Injuries And Alternatives To Reduce Their Occurrence”
- 19 — Christine Gralher, AECOM: “Climate Change Adaptation Planning and Implementation”
- 20 — Erin Koch, South Carolina Dept. of Natural Resources: “Assessment of South Carolina Offshore Sand Resources with Emphasis on Community Needs and Data Gaps”
- 21 — Michelle Kuhn, New Jersey Geological and Water Survey: “A Look at the New Jersey Geological and Water Survey Offshore Resource Exploration Program: Then and Now”
- 22 — Stephen Mabee, Massachusetts Geological Survey: “Sand Resource Assessment at Public Beaches in Massachusetts: Determination of Baseline Profile and Grain Size Conditions”
- 23 — Kirsten McElhinney, Mott MacDonald: “Tanker Induced Surges and Breaking Waves in Harbors”

24 — William Murphy, e4sciences: “Imaging Inlets and Jetties on Long Island and in New Jersey”

25 — Kelly Pflücke, New Jersey DEP, Office of Coastal and Land Use Planning: “Mapping Resilience Planning and Implementation in New Jersey’s Coastal Communities”

26 — Zachary Stromer, University of Massachusetts Geosciences: “Coastal Flood Risk in Massachusetts: A Combined Approach”

27 — Rod Tyler, Filtrexx International: “New Tools for Coastal Communities to Manage Dunes, Dredge and Pollutants”

28 — Stephen Van Ryswick, Maryland Dept. of Natural Resources/Maryland Geological Survey: “Comparison of Seabed Classification Methodologies Using Side Scan Sonar Data along Maryland’s Atlantic Coastline”

29 — Lesley Ewing, Editor, *Shore & Beach*: “*Shore & Beach* Through the Years”

7:30 p.m. — Student & New Professionals Informal Meet Up

— THURSDAY, OCT. 27 —

7:00-7:30 a.m. Continental breakfast

7:30-8:50 a.m. — Concurrent Sessions #1

1A — Implementing Living Shoreline Projects Session 1 • Monmouth 3

Moderator – Cesar Espinosa

- “The Development of Living Shoreline Projects in New England: Looking for the Better Mouse Trap” — Lee Weishar, Woods Hole Group
- “Investigating the Effects of Living Shorelines in Mitigation Against Coastal Storms” — Maura Boswell, Old Dominion University
- “Schicke Point Shoreline Protection: A Multidisciplinary, Phased Approach for a Living Shoreline, Adaptive Management and Engineering with Nature Project in Matagorda Bay Texas” — Cris Weber, Freese and Nichols

1B — Dune Processes and Monitoring • Monmouth 4

Moderator – Jerry Mohn

- “Documenting the Ever-Changing Topographical Facade of Coastal Dunes” — Bianca Reo Charbonneau, University of Pennsylvania
- “Establishing Relationships between Vegetation Dynamics in Context of Geologic Framework on Padre Island National Seashore, Texas” — Dawan Taylor, Texas A&M University
- “Aeolian Transport to Protective Dunes” — Karl Nordstrom, Rutgers University

1C — Sea Level Rise Planning & Guidance • Monmouth 5

Moderator – Mike McGarry

- “Design and the Reality of Climate Change” — Claire Weisz, WXY Architecture
- “Los Angeles County Sea-Level Rise Vulnerability Assessment” — Ismael Lopez, Los Angeles County (CA) Dept. of Beaches & Harbors

- “The Threat of Sea Level Rise: Best Practices for Community-Level Vulnerability Assessments” — Karin Ohman, Michael Baker International
- “Dune Conservation on a Developed Coastline” — Brandon Hill, Program and Project Manager, City of South Padre Island, TX

1D — Community Outreach & Education • Atlantic 3

Moderator – Francis Bui

- “Building Sustainable Coastal Communities” — Angela Andersen, Long Beach Township, NJ
- “Stakeholder Outreach, St Lucie County” — Patricia M. French-Pacitti, Presidents Council Hutchinson Island, FL
- “Development of a Regional Sediment Science Strategy for San Francisco Bay” — Brenda Goeden, San Francisco Bay (CA) Conservation and Development Commission

1E — Web Applications for Design & Planning • Atlantic 4

Moderator – Mark Osler

- “Living Shorelines and a Coastal Landscaping Tool for Connecticut Homeowners” — Juliana Barrett, Connecticut Sea Grant/University of Connecticut
- “Active Flood Proofing for Coastal Resiliency of Small Businesses in New York City” — Andrea Braga, Geosyntec Consultants
- “An Online Forecasting System of Tidal Currents and Severe Weather Induced Flows in Tidal Inlets of Louisiana Coastal Bays” — Chunyan Li, Louisiana State University
- “Massachusetts TIDEGateway: A New Web-Based Geospatial Tool for Planning, Assessment and Analysis of Tide Gates” — Robert Hartzel, Geosyntec Consultants

1F — Improving Resiliency in Coastal Communities • Atlantic 5

Moderator – Lauren Klonsky

- “Helping Coastal Communities Become More Resilient” — Darlene Finch, NOAA’s Office for Coastal Management
- “Getting to Resilience: Technical Assistance to New Jersey Municipalities” — Lisa Auermuller, Jacques Cousteau National Estuarine Research Reserve
- “Engaging People Now about the Future: Resources and Insights from the Science of Risk Communication” — Darlene Finch, NOAA’s Office for Coastal Management
- “Challenging Questions: Using Real-World Scenarios to Teach Effective Risk Communication Methods in New Jersey” — Sarah Watson, Rutgers University

8:50-9:10 a.m. — Networking break
Sponsored by CDM Smith

9:10-10:30 a.m. — Concurrent Sessions #2

2A — Implementing Living Shoreline Projects Session 2 • Monmouth 3

Moderator – Susan Brodeur

- “Creating Resilient Habitats and Communities on Delaware Bay, NJ” — Capt. Al Modjeski, American Littoral Society

- “Living Shoreline Demonstration Project: Recent Experience on Design and Construction with Artificial Oyster Reefs” — Josh Carter, Mott MacDonald
- “Demonstrating Oyster Reef Breakwaters and Other Living Shoreline Techniques in the Delaware Estuary” — Moses Katkowski, The Nature Conservancy
- “ECONcrete: Ecological Enhancement of Urban Coastal Infrastructure” — Andrew Rella, ECONcrete

2B — Dune Restoration & Human Impacts • Monmouth 4

Moderator – Phill Roehrs

- “Impacts of Driving on the Beach” — Chris Houser, Texas A&M University
- “South Padre Island Beach Management: Assessment of Dune Restoration” — Shelby Bessette, University of Texas-Rio Grande Valley
- “Case Study: Follets Island, Brazoria County, TX: Restoration of Dune and Habit System Destroyed by Hurricane Ike” — Casey Connor, Mott MacDonald

2C — Modeling Coastal Processes & Sediment Transport • Monmouth 5

Moderator – Bret Webb

- “Correcting for Changes in the NDBC Wave Records of the U.S. East Coast” — Elizabeth Livermont, Stevens Institute of Technology
- “Coastal Processes Study and Resiliency Recommendations for Duxbury Beach and Bay” — Long Xu, Woods Hole Group
- “Web Application for Siting Nearshore Placement Areas of Dredged Sediment” — Brian McFall, USACE, Engineer Research and Development Center
- “Offshore Borrow Area Design Guidance” — Lindino Benedet, CB&I Coastal & Maritime Services

2D — Effects of Beach Nourishment on the Beach & Nearshore • Atlantic 3

Moderator – Dawn York

- “Effects of Beach Replenishment on Intertidal Invertebrates: A 15-month, Eight Beach Study” — Tyler Wooldridge, Harvard University
- “The State of Understanding on the Impacts of Beach Nourishment Activities on Infaunal Communities” — Brad Rosov, CB&I
- “The Surf Zone as a Biological Factory: Biomass, Production, and Beach Nourishment Effects” — Lawrence Cahoon, University North Carolina-Wilmington
- “Streamlining The Permitting Process: The North Carolina Regional Biological Assessment” — Rahlff Ingle, Dial Cordy and Associates

2E — Implementation of the North Atlantic Coast Comprehensive Study and Improving Coastal Resiliency • Atlantic 4

Moderator – Joan Pope

- “Applying the NACCS Framework in New Jersey: A Case Study” — Lauren Klonsky, CDM Smith
- “The USACE New Jersey Back Bays Coastal Storm Risk Management Study: An Overview of the North Atlantic Coast Comprehensive Study Focus Area” — J. Bailey Smith, USACE, Philadelphia District
- “Implementation of the North Atlantic Coast Comprehensive Study Findings and Outcomes” — Roselle Henn, USACE, National Planning Center for Coastal Storm Risk Management

2F — ASBPA in Action - Government Affairs • Atlantic 5

Moderator – Derek Brockbank

- “Improving Regulatory and Review Processes for Coastal Projects” — Ken Willson, CB&I
- “Federal Investment in Coastal Restoration, Resilience and Research Funding” — Michael Walther, Coastal Tech-G.E.C. Inc.
- “Implementing Regional Coastal Plans” — Thomas Richardson, Jackson State University
- “Overview and Discussion of 2017 Government Affairs Issues” — Derek Brockbank, ASBPA

10:30-10:40 a.m. — Networking break

Sponsored by CDM Smith

10:40-Noon — Concurrent Sessions #3

3A — Modeling Superstorm Sandy / Session 1 • Monmouth 3

Moderator – Scott Douglass

- “Approaches to Coastal Storm Damage and Benefits Assessments” — Michael Cannon, AECOM
- “Accuracy of Coastal Change Forecasts for Hurricane Sandy along New Jersey and New York Beaches” — Justin Birchler, U.S. Geological Survey
- “Hurricane Sandy-Induced Wave Setup/Setdown in New York/New Jersey Harbor: Results from a Coupled Circulation-Wave Model” — Reza Marsooli, Davidson Laboratory, Stevens Institute of Technology

3B — Living Shorelines and Biological Response to Coastal Projects • Monmouth 4

Moderator – Nicole Elko

- “Adapted Management Strategies for Shoreline Stabilization using Bio-Engineering Techniques In Ocean City, NJ” — Becky Traylor, Michael Baker International
- “Evaluating the Relationship between Sediment Source Characteristics, Temperature, and Sea Turtle Nesting Patterns along Palm Beach County, FL” — Julie Cisneros, Florida Atlantic University
- “Numerical Modeling to Support Breaching a Rubble Mound Jetty for Improved Fish Access into a Jetty Lagoon Feature at the Mouth of the Columbia River in Oregon” — Lynda L. Charles, USACE, Portland District
- “One-year Update on the Restored Cedar Bayou Tidal Inlet” — Kirsten McElhinney, Mott MacDonald

3C — Enhancing Coastal Resiliency • Monmouth 5

Moderator – John Lee

- “Coastal Resilience Grants Pave the Way for Barrier Beach Restoration on Popponesset Spit, Mashpee, MA” — Tara Marden, Woods Hole Group
- “Three Community’s Coastal Resilience Planning: Towns of Branford, Milford, and Madison, CT” — Sarah Hamm, Dewberry
- “Resiliency Assessment of the Cape Fear River Basin” — Dawn York, Dial Cordy and Associates
- “Monmouth Beach, NJ, Dune and Tidal Wetlands Restoration” — Mark Jaworski, CH2M

3D — Hazard Mitigation, Visualization, & Project Economics • Atlantic 3

Moderator – Brian Caufield

- “Hazard Mitigation: An Overview, What’s New, and How-To” — Frances Bui, CDM Smith
- “Coastal Flood Resilience for Megacities” – Henry Xian, Princeton University

- “Hurricane Storm Surge Operational Forecast System” – Emily Dhingra, AECOM
- “Data Visualization and Story Mapping America’s Shores and Beaches” — Martha Shaw, Earth Advertising

3E — Coastal Project Design & Planning • Atlantic 4

Moderator – Katherine Brutsche

- “Efficiency and Affordability in a Local Beach and Inlet Management Plan: Topsail Beach, NC” — Jamie Pratt, TI Coastal Services Inc.
- “Coastal Storm Damage Risk Management Reduction: Sabine Pass to Galveston Bay and Coastal Texas Projects: An Update” — Sharon M. Tirpak, USACE, Galveston District
- “Sustainable Beach Management at Gandy’s Beach, NJ” — Katie Walling, Mott MacDonald
- “The Broad Beach Saga: Unique Challenges of a Privately-Funded Beach Restoration Project in Malibu, CA” — Russ Boudreau, Moffatt & Nichol

3F — Getting to Resilience in New Jersey: The Lessons and Determination for On-the-Ground Resilient Efforts • Atlantic 5

Moderator – Stacy Small-Lorenz

Panel discussion with:

Michael Schwebel: Community Resilience and Climate Adaptation Specialist for New Jersey Sea Grant and Monmouth University.

Nicholas Angarone: Supervisor/Regional Planner/Research Scientist, Office of Coastal and Land Use Planning at New Jersey Department of Environmental Protection

Jenna Gatto: Resilient Community Specialist at Jacques Cousteau NERR

Stacy Krause, AICP/PP: Senior Research Specialist, Rutgers Bloustein School, Environmental Analysis and Communications Group

Noon-2:00 p.m. — Awards Luncheon • Monmouth 1&2

Luncheon Speaker – Richard Weggel

Luncheon sponsored by: Great Lakes Dredge & Dock Company

Awards sponsored by: Northeast Shore & Beach Chapter of ASBPA

Birthday Cake sponsored by: CB&I

2:00-3:20 p.m. — Concurrent Sessions #4

4A — Modeling Superstorm Sandy / Session 2 • Monmouth 3

Moderator – Kenneth Craig

- “Effects of Sea Level Rise to Beach Erosion during Tropical Storm” — Tianyi Liu, GZA Inc.
- “Modeling Historical Storms and Waves in the Mid-Atlantic and New York Bights” — Roham Bakhtyar, Stevens Institute of Technology
- “Comparison of Three Overtopping Discharge Calculation Methods by Calculating Seawall Overtopping In Bay Head Using Sbeach Output” — Fanglin Zhang, Stevens Institute of Technology

“4B — Modeling Inlets & Shoreline Response • Monmouth 4

Moderator – Tom Richardson

- “Dynamics of a Small Tidal Inlet and the Search for Channel Stability” — Bret Webb, University of South Alabama
- “Inlet Management Study for Bunces Pass and Pass-A-Grille Inlet at the Mouth of Tampa Bay, West-Central Florida” — Ping Wang, University of South Florida
- “Challenges on Hydrodynamic Modeling of Oregon Inlet, NC” — Liliana Velasquez-Montoya, North Carolina State University
- “The Vulnerability to Coastal Flooding at Two Locations on Islesboro, ME” — Leila Pike, Ransom Consulting Inc.

4C — Planning for and Managing Coastal Projects • Monmouth 5

Moderator – Russ Boudreau

- “What We Know and What We Think We Know: Common Coastal Management Facts and Their Misconceptions Revealed” — Christine Avenarius, East Carolina University
- “MUNICIPAL: A Planning and Training Tool to Improve the Recovery of Interdependent Civil and Social Infrastructures Following a Hurricane Event” — Richard Little, Rensselaer Polytechnic Institute
- “Future Storm Surge Impacts in the Barnegat Bay” — Thomas Herrington, Stevens Institute of Technology
- “Life Cycle Cost Analysis of Beach Erosion Alternatives at Rincón, PR” — Francisco J. Villafañe Rosa, University of Puerto Rico at Mayagüez, Dept. of Civil Engineering and Surveying

4D — Regional Sediment Management Session 1 • Atlantic 3

Moderator – Linda Lillycrop

- “Historic RSM Coastal Navigation Sediment Placement in the U.S.” — Nicole Elko, ASBPA, Vice President of Science & Technology
- “Regional Sediment Management (RSM) Dredge Optimization for USACE South Atlantic Division” — Clay McCoy, USACE, Jacksonville District
- “Fire Island Inlet to Montauk Point, NY: Hurricane Sandy Interim Projects” — Lynn Bocamazo, USACE, New York District
- “Nearshore Placement as a Regional Sediment Management Practice” — Katherine E. Brutsche, USACE, Engineer Research Development Center

4E — Beach Restoration: Project Performance • Atlantic 4

Moderator – Reuben Trevino

- “Influences of Beach Nourishment on Shoreline Stability at New Jersey Beach Profile Network (NJBPN) Erosion Problem Areas” — Kimberly McKenna, Stockton University Coastal Research Center
- “Morphology and Shoreline Dynamics of a Southwest Florida Barrier Island: Natural and Anthropogenic Influences over the Last 75 Years” — Tiffany Roberts Briggs, Florida Atlantic University
- “Beach Restoration to Protect NC Highway 12 at Buxton, Dare County, NC” — Timothy Kana, Coastal Science & Engineering Inc.
- “St. Lucie County-South County Beach Project Plan Formulation” — Michael Walther, Coastal Tech-G.E.C. Inc.

4F — Building Ecological Solutions to New Jersey Coastal Community Hazards • Atlantic 5

Moderator – Elizabeth Semple

- “Building Natural Defenses: Best Practices for Incorporating Resilient Ecosystems into Coastal Community Planning” -- Stacy Small-Lorenz, National Wildlife Federation
- “Diverse Environments; Diverse Solutions; Ecological Engineering Solutions to Coastal Hazards in New Jersey” — Jon Miller, Stevens Institute of Technology
- “Monitoring for Better Coastal Resilience Outcomes” --Martha Maxwell-Doyle, National Estuarine Partnership
- “Incentivizing Coastal Community Resilience Through a Sustainability Certification Program” — Linda Weber, Sustainable Jersey

3:20-3:40 p.m. — Networking break

3:40-5:00 p.m. — Concurrent sessions #5

5A — Storm Surge & Flood Modeling • Monmouth 3

Moderator – Ping Wang

- “Modeling the Impact of Historical Storms on the Rhode Island Shoreline” — Lauren Schambach, University of Rhode Island
- “Inundation Modeling for National Parks in the Northeast U.S. using ADCIRC” — Tayebah S. Tajalli Bakhsh, RPS Group Applied Science Associates
- “Post-Fukushima Flooding Analysis for the Salem and Hope Creek Nuclear Generating Stations in South New Jersey” — Michael Salisbury, Atkins North America Inc.
- “Mitigating Flood Risk and the Impacts of Climate Change at the World Trade Center” — Mark Osler, Michael Baker International Inc.

5B — Modeling Coastal Processes & Human Response • Monmouth 4

Moderator – Lynn Bocamazo

- “GeoCoastal: CSHORE Modeling Tools for accessing shoreline response to Coastal Hazards” — Jeff Gangai, Dewberry
- “A Human-Nature Coupled Model to Evaluate Land Occupation Dynamics of Coastal Communities” — Ayse Karanci, North Carolina State University
- “Gandy’s Beach Coastal Processes” — Victoria Curto, Mott MacDonald
- “Offshore Wind: A Closer Look” — Nicholas DeGennaro, D&D Civil and Marine Engineering

5C — Lessons Learned From Sandy • Monmouth 5

Moderator – Tom Herrington

- “Some Lessons after Storms Sandy and Katrina” — William Murphy, E4Sciences
- “Lessons from Superstorm Sandy for Coastal Building Codes” — Thomas Wakeman, Stevens Institute of Technology
- “Reformulating the Long Beach Island Storm Damage Reduction Project in the Wake of Hurricane Sandy” — Tom Pierro, CB&I
- “Dune Building and Maintenance in an Atlantic Coast Residential Area: Lessons Learned from Hurricane Sandy and Beyond” — Christine Pryately, Doeg Creek Limited

5D — Regional Sediment Management Session 2 • Atlantic 3

Moderator – Julie Rosati

- “Dredging, Sand Management and Habitat Restoration of a Jettied Inlet System, Chatham, MA” — Ted Keon, Town of Chatham, MA
- “Innovative Recycling of Major Sand Surplus Volumes Instead of Using Virgin Material, i.e. Backpassing in New Jersey” — Stewart Farrell, Stockton University Coastal Center
- “CMS Modeling of the North Coast of Puerto Rico” — Kelly R. LeGault, USACE, Jacksonville District
- “A Regional Sediment Management Approach to Coastal Projects: Restoring Navigation and Enhancing Coastal Resilience following Hurricane Sandy” — Monica Chasten, USACE, Philadelphia District

5E — Beach Restoration: Building Resiliency • Atlantic 4

Moderator – Tim Kana

- “The Misquamicut (RI) State Beach Replenishment Project: Two Years Later: Measured Using RTK-GPS, DGPS and Beach Profiles” — Bryan Oakley, Eastern Connecticut State University
- “Beach Nourishment in Galveston, TX: A Long-Term Plan for Success” — Reuben Trevino, Galveston Island Park Board of Trustees, TX
- “Beach Restoration on Dauphin Island, AL” — Scott Douglass, South Coast Engineers
- “Building Resilience for Coastal New Jersey, North of Manasquan Inlet” — Roy Messaros, USACE, New York District

5F — A Tribute to Orville Magoon • Atlantic 5

Moderators – Lesley Ewing and Billy Edge

- “Orville Magoon: Contributions to Coastal Structures Engineering” — Tom Kendall, U.S. Army Corps of Engineers
- “Carbonate Beaches Are Under Attack: Multiple Sources of Dissolution of the Sand from Sea, Land and Air” — Lisa Robbins, U.S. Geological Survey
- “Waikiki Beach Management: Past, Present and Future” – Robert Walker, Hawaii Chapter, ASBPA
- Panel discussion

5:30-6:30 p.m. — Volleyball • Meet on the beach (sign up at the registration desk)

— FRIDAY, OCT. 28 —

7:00-7:30 a.m. • Coffee hour

7:30-8:50 a.m. — Concurrent Sessions #6

6A — Coastal Monitoring & Mapping • Monmouth 3

Moderator – Beth Sciaudone

- “Repair of the Mid Atlantic High Frequency Radar Network After Hurricane Sandy” — Hugh Roarty, Rutgers University
- “The Physical Vulnerability-Building Footprint of Cape Hatteras National Seashore” — Michael Flynn, East Carolina University Coastal Resources Management
- “Using GIS to Help an Electric Company Implement Flood Protection Measures in New England” — George Andrews, BSC Group Inc.
- “Effectiveness of a Bistatic System on High Frequency Radar Resiliency” — Chloe Baskin, Rutgers

6B — Innovative Design of Coastal Structures • Monmouth 4

Moderator – Gordon Thomson

- “Structural Rehabilitation of Pier 68S” — William Castle, W.J. Castle, P.E. & Associates, P.C.
- “Use of Geotextile-Wrapped Core Boxes in Jetty Construction” — Douglas Gaffney, Mott MacDonald
- “Designing Resilient Coastal Structures using Risk-Informed Decision Making” — Dan Stapleton, GZA
- “Environmentally-Friendly Coastal Levee and Seawall Upgrades in the Face of the Sea Level Rise” — Takefumi Takuma, Giken America Corp.

6C — Planning for Coastal Resiliency • Monmouth 5

Moderator – Cameron Perry

- “Developing the Texas Coastal Resiliency Plan” — Chris Levitz, AECOM
- “Using FEMA’s Tools to Better Identify, Communicate, and Mitigate Flood Risk” — Krista Conner, Michael Baker International
- “What do Coastal Communities Really Need and Want to Enhance Their Resilience?” — Shannon Cunniff, Environmental Defense Fund
- “Assessing Vulnerability to Inform Pre-Disaster Recovery Planning in Waikiki, HI” — Roberto Porro, National Disaster Preparedness Training Center, University of Hawaii at Manoa

6D — Applications of Remote Sensing / Session 1 • Atlantic 3

Moderator – Ken Willson

- “Florida and U.S. East Coast Beach Change Metrics Derived from LiDAR Data Utilizing ArcGIS Python Based Tools” — Quin Robertson, CB&I
- “Utilizing High-resolution LiDAR Observations of Rookery Islands in the Upper Laguna Madre to Define a Monitoring Benchmark” — Phillippe Tissot, Texas A&M University
- “The Role of Geologic Framework in Barrier Island Development at Padre Island National Seashore, Texas, USA” — Phil Wernette, Texas A&M University
- “Measurement and Characterization of Bay Shorelines on the Central Texas Coast” — Tiffany Caudle, Bureau of Economic Geology, University of Texas at Austin

6E — Investigation of Offshore Sand Resources / Session 1 • Atlantic 4

Moderator – Jeffery Waldner

- “Geological and Geophysical Data Offshore North Carolina for Sand Resources: Availability, Analysis and Needs” — John Walsh, East Carolina University
- “Geospatial and Field-based Sand Resource Assessments for Georgia Coastal Resiliency and Recovery” — Clark Alexander, Skidaway Institute of Oceanography, University of Georgia
- “Assessment of Marine Sand Resources and Economic Heavy Minerals on Virginia’s Outer Continental Shelf” — William Lassetter, Virginia DMME Division of Geology and Mineral Resources
- “Assessment of South Carolina Offshore Sand Resources: Data Inventory and Future Research Efforts” — Katherine Luciano, South Carolina Department of Natural Resources

6F — Ocean Planning: Bringing Together Science, Data, People and Government to Coordinate Ocean Uses • Atlantic 5

Moderator – Christine Hopper

- “The Role of Data in Improving Decision-Making and Coordination Amongst Federal Agencies, States, Industry, and other Stakeholders” — Tony MacDonald, Monmouth University
- “Using Data as a Stakeholder Outreach Tool” — Christine Hopper, The Nature Conservancy
- “Making Recreation Visible to Agencies: Using Maps and Data to Ensure All Ocean Users are Represented in Decision Making” — Matt Gove, Surfrider Foundation
- “A Common Table: How Ocean Planning can Bring Together Diverse Ocean Users to Solve Problems” — Aimee Bushman, Conservation Law Foundation

8:50-9:10 a.m. — Networking break

9:10-10:30 a.m. — Concurrent Sessions #7

7A — Coastal Policy • Monmouth 3

Moderator – Tiffany Caudle

- “Building Capacity” — Bill Hanson, Great Lakes Dredge & Dock Co.
- “The Role of the Endangered Species Act in Regulation of Erosion Control Structures” — Kenneth Humiston, Humiston & Moore Engineers
- “I’ve Got a Sinking Feeling, or The Turtles Shall Inherit the Beach” — David Levin, Icard/Merrill

7B — Coastal Structures / Case Studies • Monmouth 4

Moderator – Jon Miller

- “Design and Construction of the Coney Island-Sea Gate Protection Project” — Santiago Alfageme, Moffatt & Nichol
- “Recent Experience with Groin Installation and Modification in South Carolina” — Steven Traynum, Coastal Science & Engineering Inc.
- “Installation and Monitoring of Geotextile Tubes for Coastal Bluff Protection at Siasconset, Nantucket” — Maria Hartnett, Epsilon Associates
- “Breakwater Repairs and Mitigation at Pigeon Cove, Rockport, MA” — Cheryl Coviello, GZA GeoEnvironmental Inc.

7C — Project Planning and Restoration • Monmouth 5

Moderator – Peter Seidel

- “What is That Dredged Sediment Doing on the Marsh?” — Metthea Yepsen, The Nature Conservancy
- “An Integrated Approach to Resilient Coastal Communities” — Kaity Goldsmith, MARCO

7D — Applications of Remote Sensing / Session 2 • Atlantic 3

Moderator – Michael Walther

- “Active and Passive Imaging of Submerge Structures in Shallow Coastal Water” — Behrokh Nazeri, Texas A&M University-Corpus Christi
- “High Temporal and Spatial Resolution Study of Morphological Response to Beach Management” — Melanie Gingras, Harte Research Institute for Gulf of Mexico Studies
- “Use of Terrestrial LiDAR to Analyze Geomorphic Changes to Holgate and Little Beach Island, NJ” — Marcus H. Gruver, Coastal Research Center, Stockton University

7E — Investigation of Offshore Sand Resources / Session 2 • Atlantic 4

Moderator –Derek Brockbank

- “Onshore to Offshore Geology, Delaware: Using Geologic Mapping to Target Sand Resources for Beach Replenishment” — Trevor Metz, Delaware Geological Survey
- “Integrated Studies of the New Hampshire Shoreline and Continental Shelf: An Important Step Toward Coastal Resiliency” — Larry Ward, University of New Hampshire
- “GIS: Another Tool for Sub-Surface Sediment Reconnaissance” — Paul Knorr, Bureau of Ocean Energy Management

7F — Implementing Municipal Public Access Planning In New Jersey • Atlantic 5

Moderator – Rebecca Foster

- “Community Visioning Through Municipal Public Access Planning: The Case of New Brunswick, NJ” — Heather Fenyk, Lower Raritan Watershed Properties
- “Promoting Public Access and the Seasonal Community” — Angela Andersen, Long Beach Township, NJ
- “Municipal Public Access Planning: Brick, NJ” — Keith Rella, Brick Township, NJ
- Panel discussion

10:30-11:50 a.m. – Concurrent Sessions #8

8A — Protecting our Beaches and Dunes Using Planning, Hard & Soft Engineering Practices • Monmouth 3

Moderator – Chris Levitz

- “The Promise of Vegetation for Beach and Dune Protection” — Rusty Feagin, Texas A&M University
- “Modeling Storm-Induced Subaerial Barrier Island Morphology Changes along the Upper Texas Coast” — Jens Figlus, Ocean Engineering, Texas A&M University
- “Hybrid Coastal Defense Systems” — Badreyah Almarshed, Texas A&M University Department of Ocean Engineering
- “Reshaping a Local Coastal Program for the 21st Century in Galveston, TX” — Kelly de Schaun, Galveston Island Park Board of Trustees

8B — Advances in Coastal Protection • Monmouth 4

Moderator – Doug Gaffney

- “Delaware Department of Natural Resources and Environmental Control (DNREC) Environmental Restoration Projects along Delaware Bay” — Peter Kotulak, Moffatt & Nichol
- “Tottenville, Staten Island, Coastal Protection” — Brian Riley, Stevens Institute of Technology
- “A Post-Sandy Flood Mitigation Case Study at a New Jersey Power Plant” — Bryant Furtado, GZA
- “Monmouth County High Water Mark Initiative” — James Nickels, Monmouth University

8C — Storm Impacts and Structure Response • Monmouth 5

Moderator – Ken Humiston

- “Evaluation of the 2015-2016 Winter Storm Season Based on the Storm Erosion Index (SEI)” — Jon Miller, Stevens Institute of Technology
- “Future Storm Surge Flooding in the Coast of Virginia and Maryland with Projected Climate Change and Sea Level Rise Scenarios” — Ali Mohammad Rezaie, George Mason University
- “Coastal Hazards System” — Jeffrey Melby, U.S. Army Engineer R&D Center

- “Seawall and Rockwall “End Effects” during Winter Storm Jonas in New Jersey” — Marianna Fleming, Davidson Laboratory, Stevens Institute of Technology

8D — Remote Sensing Applications and Hazard Analysis • Atlantic 3

Moderator – Bill Hanson

- “Pre- and Post-Hurricane Sandy LiDAR Analysis of a Continuous Groin Field’s Influence on Beach-Dune Volume Change Using Analysis of Variance (ANOVA): Long Beach Island, NJ” — Daniel Barone, Michael Baker International
- “Integration of Unmanned Aircraft Systems (UAS) into Lifesaving Operations” — Jaden Dicopoulos, Rutgers University
- “Modernizing the Coastal Erosion Hazard Area for Lower New York State” — Brian Batten, Dewberry
- “Post Sandy: Beach Profile and Groin Surveys using LiDAR” — Todd King, McKim & Creed

8E — Investigation of Offshore Sand Resources / Session 3 • Atlantic 4

Moderator – Jeffery Reidenhauer

- “A Collaborative Approach to Characterizing Sand and Gravel Deposits Using Multi-beam Sonar in the Gulf of Maine” — Matthew Nixon, Maine Coastal Zone Management Program
- “Assessment of Sand Resources Offshore New York” — Henry Bokuniewicz, Stony Brook University
- “Identification of Sand/Gravel Resources in Rhode Island Waters” — John King, University of Rhode Island

8F — Enhancing Resiliency in New Jersey: Coordinating Ecological and Community Planning • Atlantic 5

Moderator – Tony MacDonald

- “Resiliency Planning in New Jersey’s Coastal Communities” — Nicholas Angarone, NJDEP Coastal Management Program
- “Integrating Nature-Based Solutions into Coastal Resilience” — Patty Doerr, The Nature Conservancy
- “Coordinating Ecological and Community Planning” — Elizabeth Semple, NJDEP Coastal Management Program
- “A Risk-Based Approach to Reshaping Coastal Development” — David Kutner, Planning Manager, New Jersey’s Future

11:50 a.m. • Adjourn

Noon – 5:00 p.m.

Post-conference field trip*:

“Let’s have a Look at Sandy Hook, NJ”

Explore Sandy Hook during this field trip led by local coastal experts. Includes lunch.

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