ASBPA 2016 90th Anniversary National Coastal Conference

“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 Gurumurthy, 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”


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”


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 Pflicke, 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

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


**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 Schwobel: 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-Montoja, 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
• “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
• “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 Vulnera-Building Footprint of Cape Hatteras National Seashore” — Michael Flynn, East Carolina University Coastal Resources Management
• “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” — Phillipe 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


• “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
• “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.
Sponsored by U.S. Geological Survey

* Separate fee, not included in conference registration

Program as of Oct. 19, 2016. -- Subject to change