



Resilient Shorelines for Rising Tides

Draft Program as of September 4, 2018. Sessions and speakers subject to change

—Tuesday, Oct. 30—

8 a.m.-5 p.m. Spinnaker Room

*Full-day Short Courses: “Government Operation” from 8 a.m. until noon, and “Coastal Geology from 1 p.m. until 5 p.m. PDH available. Part of the CCP certification program

* Separate fee, not included in conference registration

— Wednesday, Oct. 31 —

8 a.m.-noon ASBPA Board of Directors meeting – Galleon Room

10 a.m. Registration opens

1:00-5:30 p.m. — Plenary Session • Grand Ballroom A

1:00 p.m. Welcome by Conference Co-chairs

1:10 p.m. Welcome and introductions – Tony Pratt, ASPBA President

1:20 p.m. Welcome – Mayor James Yarbough, City of Galveston

1:30 p.m. “Texas Coastal Management” – David Green, Deputy Director of Coastal Resources, Texas General Land Office

2:00 p.m. “Coastal Research” – Larry McKinney, Ph.D., Executive Director, Harte Research Institute

2:30-3:00 p.m. — Networking Break • Prefunction

- 3:00 p.m. " Coastal Risk Management"— Jonathan Simms, Chief Technical Director (Resilience), HR Wallingford
- 3:30 p.m. "Coastal Policy" – Edmond Russo Jr., Ph.D., Deputy District Engineer for Programs and Project Management, USACE Galveston District
- 4:05 p.m. ASBPA Annual Membership meeting – Elections and resources for members
- 5:00 p.m. 2019 Coastal Summit Preview
- 5-7 p.m. Opening reception and Poster Session • Prefunction (posters to be added)
- 7:30 p.m. Networking Hour sponsored by the Students and New Professionals (all are invited and welcome) — TBD

— Thursday, Nov. 1 —

7:30-8:00 a.m. Continental breakfast • Prefunction

8:00 – 9:20 a.m. — Concurrent Sessions #1

1A — Beach Restoration and Coastal Structures 1

- "Success and Lessons Associated with Project Implementation: Beach Restoration to Protect NC Highway 12 at Buxton, Dare County, North Carolina" – Haiqing Kaczowski, Coastal Science & Engineering Inc.
- "Caillou Lake Headlands Restoration (aka Whiskey Island)" – Steve Dartz, Coastal Engineering Consultants Inc.
- "Ibaka Beach Restoration Design Project" – Ephraim Paul, Akwa Ibom State University
- "Sediment Quality and Berm Design Considerations in a Beach Nourishment Project with Large Fill Densities: Isle of Palms, SC" – Steven Traynum, Coastal Science & Engineering Inc.

1B — Economics of Coastal Resources

- "Wave Attenuation Services of Nature-Based Features" – Maura Boswell, Old Dominion University
- "Nueces County-Owned Kleberg Tract Habitat and Land Use Management Tract" – Harrison McNeil, Hanson Professional Services Inc.
- "Raise Taxes: A Case for Public Investment in Coastal Infrastructure" – Michael Walther, G.E.C. Inc.
- "Shoreline Restoration and Habitat Longevity In The Face of Sea Level Rise" – Nicholas Cox, Moffatt & Nichol

1C — Regional Comprehensive Coastal Studies 1

- "Coastal Texas Protection and Restoration Study: An Overview" – Kelly Burks-Copes, USACE Galveston District
- "U.S. Army Corps of Engineers Galveston District: An Overview of the Navigation, Ecosystem Restoration and Flood Risk Management (Inland and Coastal Storm) Programs along the Texas Coast" – Sharon Tirpak, USACE Galveston District

- “Gulf Coast Community Protection & Recovery District Study: Economic Analysis” – Richard Manguno, Arcadis
- “Storm Surge and Wave Impacts from a Proposed Coastal Storm Risk Management Measure for the Galveston Bay Area” – Margaret Owensby, USACE Engineer Research & Development Center, Coastal & Hydraulics Lab

1D — Engineering With Nature® 1: EWN Introduction and Example Case Studies

Moderators: Todd Bridges and Jeff King

- “Introduction to Engineering With Nature®” – Todd Bridges, USACE Engineer Research & Development Center
- “Constructing Islands with Dredged Sediment” – Danielle Szimanski, USACE Baltimore District
- “Engineering With Nature® to Support System Resilience: Examples of Innovative Channel Dredging and Placement in Coastal New Jersey” – Monica Chasten, USACE Philadelphia District
- “Engineering With Nature® to Reduce Risk and Provide Enhanced Coastal Protection” – Georganna Collins, Ecology & Environment Inc./ USACE Engineer Research & Development Center
- “Tapping the Ingenuity of Students to Design a Resilient Texas Coast” – Kelly Burks-Copes, USACE Galveston District

1E — Regional Sediment Management 1

- “Quantifying Sediment Transport and Improving RSM Strategies for USACE Projects along the Delaware and Maryland Coasts” – Eve Eisemann, USACE Engineer Research & Development Center
- “Simulation of Shoreline Changes around the Indian River Inlet in the Delaware Coast” – Yan Ding, USACE Engineer Research & Development Center
- “Thin Layer Placement: The State of the Science and Practice” – Brandon Boyd, USACE Engineer Research and Development Center
- “Recent Nearshore Placement and Case Studies” – Katherine Brutsche, USACE Engineer Research & Development Center

1F — Coastal & Estuarine Modeling 1

- “The Combination of Far Field Dredge Plume Modeling and Unmanned Aerial Systems (UAS) Technology: A Case Study in the Double Creek Channel, New Jersey” — Yi-Cheng Teng, Michael Baker International
- “The Influence of Vertical Structure on Surges at the Open Coast” – Amanda Tritinger, University of North Florida
- “Submarine Groundwater Discharge as a Likely Driver of Coastal Inlet Sediment Dynamics at a Central Gulf Lagoon” – Bryan Groza, ORISE
- “Enhanced Tide Model: Improving Tidal Predictions with Integration of Wind Data” – Thomas Huff, Texas A&M University

1G — Beach Facilities Are Unlike Anything You Have Ever Maintained

Moderator: Reuben Trevino

- “Parking is Part of Beach Access” – Luke LeBas, Atkins
- “Cameron County Coastal Park Improvements: Challenges & Partnerships” – Joe E. Vega and Paolina Vega, Cameron County, TX

- “Stewart Beach Pavilion: From Continuing Maintenance Problems to Planning a New Pavilion for the Next Generation” – Sheryl Rozier, Park Board of Trustees of the City of Galveston, TX
- “City of South Padre Island; Large Event Management on a Party Island” – Susan Guthrie, City of South Padre Island

9:20-9:40 a.m. — Networking break • Prefunction

9:40-11:00 a.m. — Concurrent Sessions #2

2A — Beach Restoration and Coastal Structures 2

- “Why Numerical Models Are Required to Design Offshore Breakwaters” – Lee Weishar, Woods Hole Group
- “Factors Surrounding Terminal Groin Reconstruction, Long Beach Island, New Jersey” – Kimberly McKenna, Coastal Research Center, Stockton University
- “Hybrid Coastal Structures as Storm Surge Barriers – A 3D Wave Basin Physical Model Experiment” – Altaf Taqi, Texas A&M University
- “Effect of Groin Notch on the Shoreline Change using Even/Odd Analysis and Empirical Orthogonal Function Analysis at the New Jersey Coast” – Pranav Sharma, Stevens Institute of Technology

2B — Federal, State, and Local Coastal Policy, Regulatory and Legal Issues

- “Adapting Yesterday’s Policies to Tomorrow’s Realities in Coastal Communities” – Douglas Plasencia, Moffatt & Nichol
- “Will Sound Engineering Prevail over Outdated and Antiquated Coastal Regulations in Massachusetts?” – Tara Marden, Woods Hole Group
- “Local Dredge Ownership Feasibility for Galveston Beach Nourishment” – Ray Devlin, Moffatt & Nichol
- “Evaluation of a Beneficial Use Bank to Promote the Beneficial Use of Federal Dredged Material” – Joseph Berlin, AECOM

2C — Regional Comprehensive Coastal Studies 2

- “Ecosystem Restoration (ER) Measures for the Texas Coastal Protection and Restoration Feasibility” – Thomas Dixon, Freese and Nichols Inc.
- “Ecological Assessment Applications through Habitat Evaluation Procedures (HEP) for the Coastal Texas Protection and Restoration Study” – Kelsey Calvez, Freese and Nichols Inc.
- “Coastal Science and Engineering Collaborative: Purpose and the Path Ahead” – Robert Thomas, U.S. Army Corps of Engineers
- “A Retrospective of the 2017 FEMA Mitigation Assessment Team Efforts in Texas and Florida” – Frances Bui, CDM Smith

2D – Engineering With Nature® 2: Combining Science, Engineering and Education

Moderator: Jens Figlus

- “Scientific framework for EWN and Related Research” – Rusty Feagin, Texas A&M University

- “Alternative Stable States in Coastal Ecosystems, Tipping Points and the Cost of Doing Nothing” – Orencio Duran Vincent, Texas A&M University
- “EWN in Action: Application of Vegetation and Natural Materials” – Tosin Sekoni, U.S. Army Corps of Engineers
- “Strategic Placement of Dredged Sediments to Support EWN Objectives” – Joseph Gailani, USACE Engineer Research & Development Center

2E — Regional Sediment Management 2

- “Regional Sediment Management of Barrier-Inlet Systems” – Tanya Beck, USACE Engineer Research & Development Center
- “Improved Regional Sediment Management via the Inclusion of Novel Field Techniques” – Heidi Wadman, USACE Engineer Research & Development Center Coastal and Hydraulics Laboratory
- “U.S. Army Corps of Engineers National Coastal Mapping Program: A Regional Sediment Management Enabling Technology” – Jennifer Wozencraft, U.S. Army Corps of Engineers
- “Lake Erie and Ontario Sediment Budget” – Weston Cross, USACE Buffalo District

2F — Coastal & Estuarine Modeling 2

- “Modeling the Vulnerability of Dauphin Island to Hurricanes” – Brittany McMillan, University of South Alabama
- “Statistical Analysis of High-Water Events and their Potential Impact on the After-Storm Recovery of Coastal Dunes” – Tobia Rinaldo, Texas A&M University
- “Erosion and Inundation of Hatteras Island at Dune- and Region-Scales during Hurricane Isabel” – Alireza Gharagozlou, North Carolina State University
- “Coastal Storm Surge Flood Barriers: Lessons from London and St. Petersburg Transferrable to Galveston Bay” – Jonathan Simm, HR Wallingford

2G — Maintaining a Safe and Environmentally Responsible Public Beach

- “Working with Partners to Create A Successful Wildlife Monitoring Program” – Joanie Steinhaus, Turtle Island Restoration Network
- “The State Role and Response in Storm Events” – Tony Williams, Texas General Land Office
- “Beach Operations in Texas: The State’s Perspective on Local Management of the Public Beach” – Natalie Bell, Texas General Land Office
- “Beach Please...Don’t Be Trashy! A Summer Saturday Keeping ‘The World’s Most Famous Beach’ Free of Litter and Debris” – Amanda Hester, CFB Outdoors Inc.

11:00-11:10 a.m. — AV Break

11:10 a.m.- 12:30 p.m. — Concurrent Sessions #3

3A — Beach Restoration and Coastal Structures 3

- “Monitoring Erosion of a Beach Nourishment Over its First Year Using UAS (Drones)” – Benjamin Ritt, Texas A&M University
- “Analysis of Photogrammetric Mapping Using Low-Cost Unmanned Aerial Vehicles in Coastal Areas” – Karine Jansen, Stevens Institute of Technology

- “Removing the Vegetation Signature from Digital Elevation Models of Coastal Areas Surveyed by Unmanned Aerial System Photogrammetry” – William Prouse, Texas A&M University
- “Assessing the Impacts of Beach Nourishment on the Oceanfront Areas of the Forsythe National Wildlife Refuge using Terrestrial LiDAR” – Alex Ferencz, Stockton University Coastal Research Center

3B — Community Outreach and Education

- “Evolution of the Beach Access Program for Sandbridge Beach, Virginia Beach, Virginia” – James White, City of Virginia Beach, VA
- “Communicating Water Safety: How to Make Rip Current Education Fun!” – Amy Williams, Stevens Institute of Technology/New Jersey Sea Grant Consortium
- “Engaging Texas Students in the Study of Coastal Environment” – Tiffany Caudle, Bureau of Economic Geology, University of Texas-Austin
- “South Padre Island Harmful Algal Bloom Monitoring: University of Texas RGV partners with Red Tide Rangers, TPWD, and NOAA” – Shelby Bessette, University of Texas, Rio Grande Valley

3C — Regional Comprehensive Coastal Studies 3

- “An Overview of ERDC’s Coastal Storm Modeling System as Applied to the Coastal Texas Protection and Restoration Study” – Thomas Massey, USACE Engineer Research and Development Center, Coastal & Hydraulics Lab
- “Use of GIS Tools in Conducting the Economic Analysis of the Coastal Texas Study Area” – Brian Maestri, U.S. Army Corps of Engineers
- “Inputs Used to Quantify Coastal Storm Surge Damages and Ecosystem Restoration Impacts” – Brian Maestri, U.S. Army Corps of Engineers
- “Modeling Storm Surge Suppression Impacts in Galveston Bay” – Zachary Cobell, Arcadis
- “A Geomorphological Approach to the Resiliency of Texas Barrier Islands” – Juan Moya, Freese and Nichols Inc.

3D – Engineering With Nature® 3: EWN Considerations for Coastal Resilience, NNBF Guidelines, and the Natural Infrastructure Initiative

Moderators: Jeffrey King and Todd Bridges

- “Approach to Coastline Management and Resilience Using EWN” – Ram Mohan, Anchor QEA LLC & Texas A&M University
- “Natural Infrastructure Initiative: Identifying Collaborative Opportunities for Natural Infrastructure and Nature Based Features” – Safra Altman, USACE Engineer Research & Development Center
- “Natural and Nature-Based Features (NNBF) Planning and Development Framework” – Jonathan Simm, HR Wallingford
- “Using a Systems Approach in the Planning and Implementation of Natural and Nature-Based Features” – Denise Reed, University of New Orleans

3E — Regional Sediment Management 3

- “USACE Galveston District Regional Sediment Management Initiatives” – Paul Hamilton, USACE Galveston District
- “Regional Sediment Management: Utilization and Design Considerations for Channel to Victoria Beneficial Use Sites” – Steven Howard, U.S. Army Corps of Engineers

- “Regional Sediment Management along the California Coast” – John Dingler, U.S. Army Corps of Engineers
- “Regional Sediment Budget Workflow and Tools” – Lauren Dunkin, USACE Engineer Research & Development Center

3F — Coastal & Estuarine Modeling 3

- “Spatial and Temporal Variations in Alongshore Sediment Transport Rates Based on Wave Modeling and Data Analysis: Anna Maria Island, Manatee County, Florida” – Morjana Signorin, APTIM
- “The Induced Wave Energy Damping Effect Owing to Rearrangement Rubble Mound Breakwater” – Asgar Ahadpour Dodaran
- “Hybrid Cross-Shore and Longshore Shoreline Evolution Modeling for Probabilistic Assessment of Beach Erosion” – Uriah Gravois, University of Queensland
- “Biloxi Marsh Shoreline Stabilization: Using Neural Networks to Simulate Water Levels” – Craig Harter, Mott MacDonald

3G — What Are You Going to do When the Sargassum or Red Tide Comes to You?

Moderator: Reuben Trevino

- “*Sargassum* Landing and Movement as a Function of North Atlantic Oscillation Variation and pH Differentials” – Mariah McBride, Texas A&M University at Galveston, The Center for Texas Beaches and Shores
- “The Seaweed is Always Greener in Someone Else’s ‘Ocean,’ or What is the Process to Obtain a Beach Maintenance Permit?” – Rhonda Gregg-Hirsch, Atkins
- “The Long Journey to Maintain Compliance While Updating *Sargassum* Management Tactics” – Jesse Ojeda, Park Board of Trustees of the City of Galveston, TX
- “Administering Through the Red Tide in Florida” – Damon Grant, Captiva Erosion Prevention District

12:30-2:30 p.m. — Awards Luncheon • Grand Ballroom A

Luncheon Speaker – TBD

2:30-3:50 p.m. — Concurrent Sessions #4

4A — Coastal Hazard Mapping & Analysis Tools

- “Aerial Drone Mapping for Coastal Monitoring and Resource Management” – Benjamin Spratford, First Coastal
- “LiDAR Derived Beach Metrics in Texas Where Bathymetry is Not an Option” – Quin Robertson, APTIM
- “Strategy for Consistent, High-Resolution Elevation Data for Florida’s Coastal Waters” – Cheryl Hapke, U.S. Geological Survey
- “LiDAR Remote Sensing Data to Support Assessment of Risk Associated with Storm Events” – Coraggio Maglio, U.S. Army Corps of Engineers

4B—Shoreline Response and Beach Nourishment Projects

- “Two Nourishments and Two Hurricanes in Two Years: Morphologic Variability of Boca Raton Beach, FL” — Tiffany Roberts Briggs, Florida Atlantic University

- “Immediate Response of Different Beach Nourishment in Florida” – Mathieu Vallee, University of South Florida
- “Florida’s Fight Against Sea Level Rise and Coastal Erosion” – Takefumi Takuma, Giken America Corp.
- “Understanding and Mitigating Shoreline Response Following Inlet Migration or Closure” – Clifton Barrineau, Coastal Science & Engineering Inc.

4C — Technical Details of the Nation's Storm Surge Forecasting Capabilities

- “Storm Surge Forecasting for the Nation” – Donald Cresitello, U.S. Army Corps of Engineers
- “NWS Storm Surge Ensemble Guidance” by Arthur Taylor, National Weather Service/Office of Science and Technology/Meteorological Development Laboratory
- “Real Time ADCIRC Modelling for Coastal Decision Support” – Jason Fleming, Seahorse Coastal Consulting
- “Gaussian Process Metamodeling for Efficient and Accurate Prediction of Coastal Hazards” – Norberto Nadal-Carballo, USACE Engineer Research & Development Center, Coastal and Hydraulics Laboratory

4D — Coastal Infrastructure Management

- “Highways in the Coastal Environment” – Scott Douglass, South Coast Engineers
- “Analysis of Scour at a Coastal Rhode Island Bridge During Hurricane Sandy” – Wendy Laurent, Taylor Engineering Inc.
- “Informing Decision-Making for Seaports to Promote Integrative Coastal Resilience” – Jessica Frank, ORISE Research Fellow, U.S. EPA
- “Enhancing Resilience of our Nation's Defense Infrastructure: Naval Weapons Station, Seal Beach, California” – Russell Boudreau, Moffatt & Nichol

4E — Shoreline Management: Putting the ‘Sand’ in San Diego”

Moderator: Sarah Pierce

- “Sandy Solutions for Shoreline Management in the San Diego Region” – Christopher Webb, Moffatt & Nichol
- “Biological Monitoring of Large-Scale Beach Nourishment Projects in San Diego County” – Lawrence Honma, Merkel & Associates Inc.
- “Regional Beach Restoration and Monitoring: SANDAG's Regional Beach Sand Project I and II” – Greg Hearon, Coastal Frontiers Corp
- “Going Beyond Beach Nourishment: Next Steps for the San Diego Region” – Sarah Pierce, San Diego Association of Governments (SANDAG)

4F – Developing Tools to Facilitate Coastal Projects

- “Developing Sand Resource Estimates with the Marine Minerals Information System” – Paul Knorr, Bureau of Ocean Energy Management
- “EIBs: A New Tool for Financing Shoreline Restoration & Coastal Resilience” – Shannon Cunniff, Environmental Defense Fund
- “Web-based Platform for Visualization and Analysis of Coastal Geomorphology Data” – Bob Fratantonio, RPS Ocean Science
- “CERA: A Storm Surge Web Mapping Tool for Decision Makers” – Carola Kaiser, Louisiana State University

4G — When Your Job Is a Day at The Beach

- “City of South Padre Island; Parking Up the Wrong Street, a Six Sigma Solution” – Brandon Hill, City of South Padre Island, TX
- “Faneuil’s Support to Toll Operations” – Andrew Clayton, Faneuil Inc.
- “Volusia County, Florida: We pride Ourselves on Providing and Maintaining Public Access & Amenities Along 35 Miles of Beautiful Shoreline” – Jessica Winterwerp, Volusia County (FL) Coastal Division
- “Putting your Emergency Beach Cleanup Plan into Action” – Nancy MacPhee, Lee County Visitor & Convention Bureau

3:50-4:10 p.m. — Networking break • Prefunction

4:10 p.m.-5:30 p.m. — Concurrent sessions #5

5A — Design Concepts and Projects 1

- “Nature Enhanced Beach Erosion Management Techniques Design, Construction, and Maintenance: Village of West Hampton Dunes, NY” – Aram Terchunian, First Coastal
- “Louisiana Barrier Island Restoration: Design and Performance of Observations” – Lindino Benedet, APTIM
- “Building Louisiana’s Coastline: A Tale of Two Very Different Islands” – Whitney Thompson, APTIM
- “Competing in the Beach Outfall Challenge” – Kimberly Miller, Allen Engineering and Science

5B — Dedicated Session: Local Funding Options

Moderator: Peter Ravella

- “Waikiki: Past, Present and Future: An Example of Urban Beach Management Planning” – Dolan Eversole, University of Hawaii Sea Grant
- “Assessment Fee Funding Mechanism, Charlotte County, Florida” – Peter Ravella, Peter A. Ravella Consulting LLC
- “Local Funding Model Case Study: Dare County, North Carolina” – Robert Outten, Dare County, NC
- “Sandbridge Beach Restoration Funding” – Phillip Roehrs, City of Virginia Beach, VA

5C — Lessons Learned from Matthew, Harvey, Irma, Maria, etc. 1

- “Rapid response on the Texas coast: acquiring Post-Harvey lidar and imagery to assess storm impact and monitor recovery” — Jeffrey Paine Bureau of Economic Geology, The University of Texas-Austin
- “Impacts of Beach Access Points on the Vulnerability of Coastal Communities during Hurricanes” — Stephanie Smallegan, University of South Alabama
- “Comparison of Beach Changes Induced by Two Hurricanes along the Coast of West-Central Florida” — Jun Chen, University of South Florida, School of Geosciences
- “Dynamics of Port Aransas-Corpus Christi Area Beaches Post-Hurricane Harvey” — Firat Testik, University of Texas-San Antonio

5D — Coastal & Estuarine Resiliency 1

- “A Resilient Massachusetts: How Massachusetts is Becoming the MVP of Resiliency” – Lauren Klonsky, CDM Smith

- “Integrating Economic, Land Use and Resilience Planning: Elizabeth City, North Carolina” – Scott Lagueux, Moffatt & Nichol
- “Brunswick Town/ Fort Anderson: A Living Shoreline Alternative” – Phillip Todd, Atlantic ReefMaker
- Phased Retreat, Resilience, and Recreation at Nauset Public Beach” – Adam Finkle, Woods Hole Group Inc

5E – Resilient Shoreline Solutions

- “Using Green Infrastructure to Create Resilient Shorelines” – Nigel Pontee, Jacobs
- “Don’t Throw It Away: Beneficial Use of Storm Debris for Beach and Vegetation Stabilization” – Tara Whittle, Texas General Land Office
- “Desktop Screening for Living Shoreline Opportunities for Chesapeake Bay TMDL Compliance in James City County” – Daniel Proctor, Stantec
- “North Carolina Dredge Acquisition Study” – Johnny Martin, Moffatt & Nichol

5F— Regional Coastal Studies

- “Hawke’s Bay New Zealand — Hazards, Research Investigations, and Management Strategies” – Paul Komar, Oceanography, Oregon State University
- “Geomorphic and Environmental Parameters Data to Support Coastal Analysis” – Eve Eisemann, USACE Engineer Research Development Center
- “Shoreline Movement Along the Texas Gulf Coast, 1930s to 2016” – Jeffrey Paine, Bureau of Economic Geology, University of Texas-Austin

5G — Why are Tourism and Marketing Important to my Beach Community?

- “Communicating When It Counts with the Public, AND Your Partners” – Meg Winchester, Galveston (TX) Convention and Visitors Bureau
- “A Decade and a Half of Bringing 100,000+ K to Gray Learners into Direct Contact with our Coastal and Natural Resources on Galveston Island” – Karla Klay, Artist Boat
- “Communicating the Value of Tourism” – Kelly de Schaun, Galveston (TX) Park Board of Trustees
- “Increasing Sporting Events at your Beach Parks (Driving Traffic)” – Bryan Kunz, Galveston Island (TX) Convention & Visitors Bureau

5:30-7:00 p.m. — Volleyball Team Competition

Engineers vs. Geologists vs. Biologists/Ecologists vs. Government Affairs

— Friday, Nov. 2 —

7:30-8:00 a.m. • Coffee hour • Prefunction

8:00-9:20 a.m. — Concurrent Sessions #6

6A — Design Concepts and Projects 2

- “Accurate Coastal Risk Assessment Leveraging Precomputed Hazards and Artificial Intelligence” – Jeffrey Melby, Noble Consultants/GEC
- “Storm Surge Barrier Alternatives for Galveston Bay” – Muhammad Enam, Arcadis
- “Natural Templates for Coastal Resiliency and Storm Protection: Cameron County, TX” – Steve Underwood, Neel-Schaffer Inc.
- “The Influence of Sedimentation on Surge Barrier Operations” – Sabrina Welch, Jackson State University

6B – Performance of Nature Based Projects

- “Preliminary Observations from the USACE Field Research Facility One Year after the 2017 Duck Nourishment” – Alexander Renaud, USACE-CHL Field Research Facility
- “Analysis and Design of Resilient, Nature-Based Protection for a Coastal Marsh Restoration Project” – Ryan Waldron, Neel-Schaffer Inc.
- “The Dickinson Bayou Wetland Restoration-Adaptive Management Success” – Jan Culbertson, Texas Parks and Wildlife Department
- “Geosynthetic Tubes in Response to Natural Hazards” – Robert Creel, Huesker Inc.

6C – Panel Discussion: What’s It Worth? The Valuation of Sand and Gravel Projects

- This facilitated panel session will invite representatives from the Bureau of Ocean Energy Management, U.S. Army Corps of Engineers, State Agencies, local jurisdictions, and impacted stakeholders to discuss their different approaches to and valuation of sediment management.

Moderator: Eric Poncelet, Ph.D., Kearns & West

Panelists:

- Gordon Thomson, Baird & Associates
- Justin S. McDonald, Mobile District, USACE
- Doug Piatkowski, BOEM
- William Hanson, Great Lakes Dredge & Dock
- Joshua Carter, Mott MacDonald

6D — Green/Grey Infrastructure and Living Shorelines 1

- “Living Rock Breakwaters” – David Buzan, Freese and Nichols Inc.
- “Cardiff Beach Living Shoreline Project, Encinitas, California” – Conor Ofsthun, Moffatt & Nichol
- “Oyster Reef Enhancement and Innovations Along the Texas Coast” – Cameron Perry, HDR Engineering
- “The Historical Progression of Rock Breakwaters as Living Shorelines at Moses Lake in Texas City, Texas” – Taylor Nordstrom, AECOM

6E— Coastal & Estuarine Resiliency 2

- “How Much Sediment Was Delivered to Galveston Bay from Hurricane Harvey, Where Did It Come From and How Contaminated Was It?” – Timothy Dellapenna, Texas A&M University-Galveston
- “3x3x3 or 3x3x9: Comparison between USACE’s SMART Planning Process and HUD’s Rebuild by Design Post-Sandy Coastal Flood Resiliency Feasibility Study and EIS Project” – Rahul Parab, Dewberry

- “Locally Funded Flood & Storm Damage Reduction Projects to Achieve Community Resilience: Dare County, NC” – Kenneth Willson, APTIM
- “Utilizing Unmanned Aerial Systems (UAS) for Monitoring Dredging-Induced Sediment Plumes in Environmentally Sensitive Waters” – Daniel Barone, Michael Baker International

6F – Planning for Sea Level Rise and Reducing Risk

- “Spatial Variability of Relative Sea Level Rise Along the Texas Coast” — Philippe Tissot, Texas A&M University-Corpus Christi
- “Sea Level Rise and Storm Surge Vulnerability Analysis for the Texas Coastal Resiliency Planning” — Claire Pollard, Harte Research Institute for Gulf of Mexico Studies
- “DHI MIKE Modeling for Coastal Flood Risk Reduction Strategy Development in Virginia Beach, VA” — Xiaohai Liu, Dewberry
- “Modeling of Flood Hazards and Mitigation from Coastal Storm Surge, Riverine, Precipitation and Sea Level Rise” — Tianyi Liu, GZA GeoEnvironmental Inc.

9:20-9:40 a.m. — Networking break

9:40-11:00 a.m. — Concurrent Sessions #7

7A — Design Concepts and Projects 3

- “Five Key Elements for a Sustainable Beach Nourishment Program” – Tim Kana, Coastal Science & Engineering Inc.
- “Winnapaug Pond Dredging and Beach Nourishment: From Contract to Construction in Four Months” – Jesse Baldwin, GZA GeoEnvironmental Inc.
- “Waikiki Beach Emergency Erosion Control Using Rapid Deployment” – Thomas Stephens, TenCate
- “La Quinta Terminal Aquatic Habitat Mitigation Project” – Kyle McElroy, Mott MacDonald

7B — Coastal Hazard Mapping & Analysis Tools

- “Assessing Community Exposure to Coastal Flood Hazards: A Planning Tool for Gulf Coast Communities” – Rebecca Allee, NOAA Office for Coastal Management
- “The Role of *Sargassum* Macroalgal Wrack in Reducing Coastal Erosion” – Rachel Innocenti, Texas A&M University
- “Mapping Future Coastal Erosion Due to Sea Level Rise” – Jeremy Mull, AECOM
- “Coastal Roads: Using Failure to Strengthen Resiliency” – Garland Pennison, HDR

7C — Lessons Learned from Matthew, Harvey, Irma, Maria, etc. 2

- “Hurricane Ike Building Survival on the Bolivar Peninsula: The Importance of Freeboard” – Spencer Rogers, North Carolina Sea Grant
- “Assessing Impacts to Natural and Built Infrastructure from Hurricane Harvey with LiDAR and UAS” – Michael Starek, Texas A&M University-Corpus Christi, Conrad Blucher Institute for Surveying and Science
- “Modelling Pluvial, Fluvial and Marine Flooding as a Result of Hurricane Irma for Jacksonville, Florida” – Kees Nederhoff, Deltares

- “Coastal Resiliency: Multi-Tier Protection System & Risk Management Strategy... Six Category 4-5 Storms and 19 Years of Data” – Robert Sloop, Moffatt Nichol

7D — Green/Grey Infrastructure and Living Shorelines 2

- “Living Shoreline and Island Restoration Case Study: Ocean City, New Jersey” – Matthew Henderson, Anchor QEA LLC
- “Lessons Learned on Living Shoreline Creation with Artificial Oyster Reefs” – Casey Connor, Mott MacDonald
- “Restoration” – Cliff McCreedy, National Park Service
- “Coastal Structures for Protection and Restoration of Mangroves: The Guyana Experience” – Ranata Robertson, University of Guyana

7E – Sediment Tracing & Sediment Management

- “On the Application of the Sediment Tracing Technique in Shoreline Management” – Kevin Black, Partrac Ltd.
- “Lessons Learned from Two Inlet Management Studies in West-Central Florida” – Ping Wang, University of South Florida
- “Chasing Paleochannels for McFaddin’s Beach Nourishment Sand Source” – Beau Suthard, APTIM
- “The Application of an Active Sediment Tracing Technique to Assess the Efficacy of Nearshore Placement of Dredged Material for Beach Nourishment Purposes” – Jack Poleykett, Partrac Ltd.

7F – Climate Smart Planning and Adaptive Management

- “Modeling to Inform Climate-Smart Habitat Restoration” – Matt Shultz, Woods Hole Group
- “The Growing Importance of Adaptive Management in the Face of Climate Change” – Natalie Snider, Environmental Defense Fund
- “Adaptive Management and Innovative Coastal Engineering Methods for More Resilient Coastlines in the Face of Rising Seas” – Thomas Pierro, APTIM
- “The Vegetated and Unvegetated Dune Sands of Time” – Bianca Charbonneau, University of Pennsylvania

11:00-11:10 a.m. — AV Break

11:10 a.m.-12:30 p.m. – Concurrent Sessions #8

8A — Design Concepts and Projects 4

- “Hydrodynamic Forcing on a Dredge Material Beneficial-Use Mud Dike Adjacent to a Shipping Channel” – William Fuller, Texas A&M University
- “Ibom Deep Seaport Navigation Channel Design” – Ephraim Paul, Akwa Ibom State University, Ikot Akpaden, Nigeria
- “Barbours Cut Dock Expansion & San Jacinto Marsh Restoration Project” – Mark Stroik, Atkins
- “Mobile Harbor Federal Navigation Channel General Re-Evaluation Study: Examination of Vessel Generated Wave Energy in a Semi-Confined Channel” – Richard Allen, U.S. Army Corps of Engineers

8B – Sediment Tracing and Nearshore Berm Response

- “Beneficial Use Nearshore Berm Study, South Padre Island, Texas” – Brandon Hill, City of South Padre Island, TX
- “A Magnetic and Fluorescent Particle Tracer Applied to a Low-Energy Coastal Sand System” – Anna Linhoss, Mississippi State University

8C — Regional Comprehensive Coastal Studies 4

- “The 2019 Texas Coastal Resiliency Master Plan” – Chris Levitz, AECOM
- “Gulf of Mexico Shoreline Beach Monitoring Program, Baldwin and Mobile Counties, Alabama” – Stephen Jones, Geological Survey of Alabama
- “North Carolina Beach and Inlet Management Plan Update” – Nicole VanderBeke, Moffatt & Nichol
- “The Louisiana, Mississippi & Alabama Coastal System (LMACS) Restoration Assessment & Planning Domain” – George Ramseur Jr., Mississippi Department of Marine Resources

8D— Green/Grey Infrastructure and Living Shorelines 3

- “Nature-Based Approaches in Coastal Resiliency: Dune Enhancement & Stabilization Pilot Study, North Shore, Oahu, Hawaii” – Robert Walker, Shoreline Science & Engineering LLC
- “Applying the ‘Living Shoreline’ Approach to California’s High-Energy Bluff-Backed Coastline” – Jeremy Smith, Moffatt & Nichol
- “Implementing Nature-Based Solutions for Coastal Highway Resilience” – Bret Webb, University of South Alabama

8E – Improving Sediment Management

- “A Coastal Sediment Crisis of Dust Bowl Proportions: Why We Need a New Deal for Beneficially Using Sediment” – Derek Brockbank, ASBPA
- “California’s Coastal Sediment Master Plan: Using Regional Sediment Management as a Strategy for Coastal Resilience and Preparing for Sea Level Rise” – Christopher Potter, California Natural Resources Agency, Ocean Protection Council
- “Beneficial Use of Dredged Material Projects in Southern California” – Kim Garvey, Moffatt & Nichol
- “Increasing Sediment Management Efficiencies, A Local Sponsors Approach to Innovative Bypass and Backpassing Systems” – Cris Weber, Freese & Nichols Inc.

8F — Texas Coastal Management

- “The Texas General Land Office (GLO)” – Melissa Porter, Texas General Land Office
- “History of the Coastal Management Program (CMP)” – Sally Davenport, Texas Coastal Partners
- “CMP Coastal Resources: The Argument for Creating a General Concurrence Before the Next Big Storm” – Jacquelyn Boutwell, Texas General Land Office
- “The Texas Coastal Management Grant Program: An Overview and Success Stories” – Julie McEntire, Texas General Land Office

12:30 p.m. • Adjourn

1-5 p.m. • Post-conference field trip*:

* **Field Trip:** Friday, includes a box lunch. The field trip will explore Galveston County's shoreline.

* Separate fee, not included in conference registration

Registration fees

	ASBPA member	Non-ASBPA member	Student member	Student non-member*
Before Sept. 29	\$395	\$495	\$75	\$100
After Sept. 29	\$445	\$545	\$75	\$100
At the door (begins Oct. 24)	\$495	\$595	\$100	\$125
Full-day short course	\$175	\$175	\$25	\$25
Half-day field trip	\$75	\$75	\$35	\$35

Registration: <https://www.regonline.com/builder/site/Default.aspx?EventID=2391600>

Partial-event registrations available – check online registration for details.

Sponsorships are available: Full details at www.asbpa.org

Exhibit spaces are available \$2,200 (including conference registration) or \$1,900 (with no access to sessions or meals).

General conference sponsor ships are \$920 and include one registration.

Deadline for registration cancellation is Oct. 24 to receive a full refund (minus a \$50 processing fee).

Send checks or government purchase orders to ASBPA, 5460 Beaujolais Lane, Fort Myers, FL 33919-2704. To be officially registered, payments must be received by Oct. 24, 2018.

Hotel:

The San Luis Resort has rooms starting at \$169 per night. The Hilton Resort has rooms starting at \$149. A limited number of government rate rooms are available. The resort fee has been waived at both facilities and self-parking is at no charge. **The deadline for hotel rooms is Sept. 29.** Call the Reservations Department at 1-800-392-5937 and say that you are with the 2018 ASBPA National Coastal Conference to receive these special rates.

Airport and airport transportation:

Two airports serve Galveston: Hobby Airport and George W. Bush Intercontinental. Hobby is closer to Galveston and avoids much of Houston traffic. Airport transportation options include car rentals and shuttles.

FIND OUT MORE: Go to asbpa.org or send an email to managing@asbpa.org or call (239) 489-2616 for information.