

Coastal Voice

THE NEWSLETTER OF THE AMERICAN SHORE & BEACH PRESERVATION ASSOCIATION

— February 2020 —

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ASBPA issues report on local funding tools for beach projects

Editor's note: One of the most frequent information requests ASBPA receive concerns the possible funding methods for communities.

The American Shore and Beach Preservation Association (ASBPA) has published a white paper explaining ways communities can fund coastal management projects, entitled "Local Funding for Coastal Projects: An Overview of Practices, Policies, and Considerations."

The paper identifies regional characteristics and local considerations communities must assess when determining how to raise revenue for beach and coastal restoration projects. The report then explains taxes, fees, and other sources of revenue commonly used by communities for beach projects; and provides an overview of emerging financial tools which can make existing revenue go farther in support of local coastal management efforts.

This paper will aid local officials in identifying revenue options as well as potential cost-savings, partnerships, and finance instruments to leverage existing funds. The

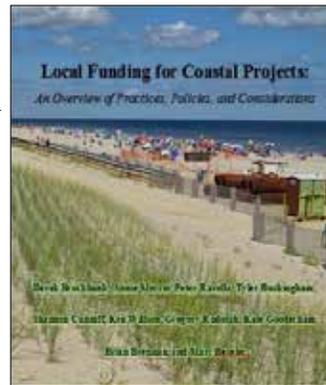
paper also provides examples of projects funded by different commonly used revenue-raising tools.

"We hope this paper will be a baseline for local officials, help consultants guide clients, and continue the discussion on ways communities fund important coastal projects," said ASBPA Executive Director Derek Brockbank. "As the competition for coastal funding grows and the need for coastal restoration and adaptation projects increases, having a number of funding options at hand can mean the difference between a successful

and effective coastal project and one that stalls due to revenue shortfalls or uncertainty in crucial funding."

The white paper, produced by the group's Government Affairs Committee and staff, is available for download (link below) and will be published this year in the association's peer-reviewed technical journal, *Shore & Beach*.

■ **Links:** <http://asbpa.org/publications/white-papers-fact-sheets/> or <http://asbpa.org/wpv2/wp-content/uploads/2020/01/Local-Funding-Report-Final-1.22.20.pdf>. ❖



Save the dates:

- **ASBPA's Coastal Summit: March 24-26, Washington, DC... Registration is open!**
- **ASBPA's National Coastal Conference: Oct. 13-16, Long Beach, CA.**

My favorite time of the ASBPA year

By BRIAN CAUFIELD, ASBPA
Coastal Summit Co-chair

It is my favorite time of year! And I don't mean living in New England and hence getting a lot of Presidential ads run on TV for the New Hampshire primary crowd. I mean we are that much closer to the ASBPA's Coastal Summit. My co-chairs and I have been working steadily on getting together an excellent three-day schedule. While we are still working on confirming speakers, we know what topics we plan to bring to you for "2020 Vision for Our Coasts: People. Policies. Practices" — and we can't wait!

Please join us on Tuesday, March 24, as we kick off the Coastal Summit at the ASAE Center in Washington, DC. We have invited a keynote speaker from the U.S. Army Corps of Engineers, but we know that we will be hearing from Assistant Secretary of Commerce (NOAA) Tim Gallaudet. We will also hear from the House Committee on Appropriations on local appropriations. We will provide an update to those in the room on the U.S. Coastal Research Program's DUNEX experiment and help local officials learn why this study is important for advancing the state of the science of nearshore processes. The first day will end with a Chill Out networking mixer — hopefully Mother Nature will be kind to us.

We will start Wednesday, March 25, celebrating the successes of four beaches recognized as a Best Restored Beach for 2019. ASBPA will follow with a panel related to our new Local Funding report. Also related to funding, we are working on securing presenters to speak about how oil & gas leases are used to fund GOMESA and what is happening in the legislature with respect to developing a coastal resilience fund from the offshore renewables leases.

We will also hear from FEMA about their Building Resilient Infrastructure and Communities program that is part of the Disaster Recovery Reform Act of 2018. We leave the afternoon of Wednesday to either visit your local Members of Congress or attend a board-led advocacy meeting to USACE, FEMA, NOAA, or BOEM. The Coastal Celebration on Capitol Hill, a joint event with our friends in the Coastal States Organization, will close out the second day.

Bring those Wednesday afternoon meeting notes to Thursday morning as we start by recapping the visits to Members of Congress and Agencies. Shortly thereafter, we will hear from an amazing panel on Valuing Natural Infrastructure and Living Shorelines where experts will introduce us to cutting-edge research that is enhancing how we advocate for, fund and design nature-based infrastructure projects.

We will also have speakers from agencies we usually do not hear from — the U.S. Fish and Wildlife Service's Coastal Program and the Environmental Protection Agency's Water/Beach program. After the Summit ends, we will be offering the short course on Government Relations that afternoon as part of the Coastal Certificate Program.

You can keep track of any program updates on our conference website <http://asbpa.org/conferences/> and there are links there to Registration and Sponsorship opportunities. We look forward to seeing you in Washington, DC, in March! ❖



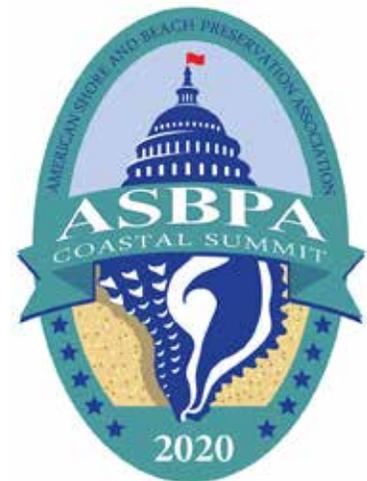
CAUFIELD



Podcast spotlights local funding report

Peter Ravella and Tyler Buckingham, hosts of the American Shoreline Podcast Network's flagship show, are joined by Derek Brockbank (Executive Director of ASBPA and host of the "Capitol Beach" podcast), Shannon Cunniff (recently retired from the Environmental Defense Fund and board member of ASBPA) and Annie Mercer (ASBPA Fellow) to discuss the recently released white paper titled "Local Funding for Coastal Projects: An Overview of Practices, Policies, and Considerations."

Subscribe to the American Shoreline Podcast Network. Available on Apple, Google, and Spotify. ❖



2019 Virtual Coastal Summit now available

Want to get a taste of what the Coastal Summit is all about? Click on <http://asbpa.org/conferences/2019-virtual-coastal-summit/> and check out the presentations from a year ago. ❖

A Coastal Celebration on Capitol Hill, with a partner worth celebrating!

By **DEREK BROCKBANK**,
ASBPA Executive Director

One of the best parts of the Coastal Summit is the “Coastal Celebration on Capitol Hill,” where hundreds of coastal professionals from across the country mingle and drink with Hill staffers and federal agency staff who work on coastal and beach issues. ASBPA will again host this Celebration in the 9th floor “penthouse” of Hart Senate Office Building on the evening of Wednesday, March 25. Our co-host for this event is the Coastal States Organization (CSO), which represents the Governors of the 35 coastal states, territories, and commonwealths on ocean, coastal and Great Lakes issues. This reception is also sponsored by Great Lakes Dredge



& Dock Co., as well as many organizations in the national coastal community including The Nature Conservancy, Ducks Unlimited, The National Wildlife Federation and more.

Another great event at the Summit is the Hill Briefing we also host with Coastal States Organization. This event, which directly precedes the

Celebration, brings together congressional committee staff who work on coastal issues in both the House of Representatives and the Senate to talk about what coastal bills are expected to be introduced and move in 2020. This event is exclusive to ASBPA and CSO members.

Finally, we are particularly excited to be celebrating with our partners and colleagues at Coastal States Organization, who in 2020 are celebrating their 50th anniversary! CSO is one of ASBPA's strongest allies on federal advocacy. Their members are great partners to many of our municipal and industry members.

We're pleased to host the Celebration and the Hill Briefing with them, and thrilled to wish them a happy 50th anniversary. ❖

ASBPA accepting research proposals until Feb. 26

By **NICOLE ELKO, Ph.D.**,
ASBPA Science Director

In FY2020, the U.S. Coastal Research Program (USCRP) is providing up to \$5 million for competitive academic awards addressing long-term coastal processes and estuarine ecosystems. Academic proposals should align with or support federal science and engineering priorities to address critical research needs within the coastal community and advance the state of knowledge. These academic awards will also fund graduate students to help build expertise in the coastal research and develop the next generation of leaders. Researchers at U.S. institutions of higher education are invited to respond.

ASBPA is pleased to be accepting research proposals, describing the science/engineering questions and planned work, on behalf of USCRP. Research proposals are due by Feb. 26, 2020, at 11:59 PM (EST) and must be submitted online at: <http://asbpa.org/us-coastal-research/>.

Academics are also required to submit a **Statement of Interest (SOI)**, describing experience and qualifications, to the U.S. Army Corps of Engineers (USACE) in response to the request for Statements of Interest (rSOI)



ELKO

advertised on the Cooperative Ecosystems Studies Units (CESU) Network.

The FY20 awards are intended to match-up academics with federal researchers in need of assistance with

fundamental science questions. The academic proposals should aim to advance ongoing federal investments by providing technical information that will fill existing research gaps. Specific research priorities include:

■ **Research Topic #L1: Long-term processes and coastal re-**

SCIENCE DIRECTOR

sponse along open coast shoreline.

- **L1.** Decadal-scale modeling of barrier island evolution under future storms and sea level rise.
- **L2.** Role of nonlinear interactions of physical processes on long-term coastal evolution.
- **L3.** Groundwater changes due to sea level rise and corresponding landscape response, particularly behind coastal defense structures. Focus on models and predictions.
- **L4.** Barrier island survival during future climate conditions (changing sea level, storms), particularly as related to the long-term sand volume budget. Focus on monitoring near-shore bathymetry.
- **L5.** Effects of land use and fresh water management practices on water quality and harmful algal blooms.
- **L6.** Sediment Budgets: Limitations on our predictive capability of sediment resource budgeting and long-term management practices.
- **L7.** Tidal Inlets: Management

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Hill update:

A look ahead on coasts and Congress

By **DEREK BROCKBANK**,
ASBPA Executive Director

With impeachment dominating the airtime in Congress for most of January, there has not been a lot to report on, but a few noteworthy updates for how the Congressional year is shaping up for coastal priorities.

■ **WRDA** — On Jan. 9, the Transportation & Infrastructure Committee in the House held its first full hearing on the 2020 Water Resources Development Act. In follow up meetings with committee staff, ASBPA learned that they will be holding public roundtables and then drafting the bill over the next few months, with the intent of releasing a bill and moving it through committee in June and the expectation that it would pass the full House in the

summer or fall in a bipartisan fashion (in 2018, the bill passed unanimously). The Senate is on a faster timeframe, and hopes to release a bill in early spring.

■ **Appropriations** — With FY20 appropriations passed in December, Congressional appropriators turn to FY21 budget. The administration is expected to release its proposed budget in early February, but the top-line numbers and proposed cuts are increasingly irrelevant as Congress decides on its own budget numbers. However, given that the congressio-



BROCKBANK

WASHINGTON REPORT

nally agreed-to spending increase is less than it has been for the past two years, and with an impending election, Congress is already talking about the likelihood of Continuing Resolution taking the federal budget from the end of the fiscal year on Oct. 1 through the November election.

■ **Other legislation** — The House continues to pass bills, including a Coastal Resilience bill in December that, among other things, included the “Living Shorelines Act” supported by ASBPA. However, this legislation seems unlikely to move in the Senate. Conversely, the Senate Energy & Natural Resource committee passed the COASTAL Act (which includes increased funding for Gulf Coast restoration from offshore oil and gas revenue) out of committee; but this bill still has to pass the full Senate and will likely face a stiff challenge in the House. ❖

Research.....

■ Continued from page 3

of sediment resources in the vicinity of tidal inlets which must address uncertainty in the impacts of long-term processes such as sea-level change, land-use change, and sediment supply.

- **L8.** a) Dune Dynamics, and b) Human reaction to repetitive flood loss.
- **L9.** Linking short-term (seconds to seasons) nearshore morphologic variability, sediment transport, waves, and water levels to long-term morphology change.
- **L10.** Change in focus from the 1-percent-annual-chance condition to a better understanding of the graduated risk due to coastal hazards at the structure level.

• **L11.** Human influence on long-term coastal erosion trends and sediment budgets.

• **L12.** Long-term feedbacks of dredging and environmental habitat.

• **L13.** Implications of adding sediment from outside the littoral system on the sediment budget of a coastal system and long-term coastal resiliency.

■ **Research Topic #E2: Processes influencing the ability of estuarine ecosystems** to provide 1) storm protection, 2) economic benefit, and/or 3) critical habitat.

• **E1.** Estuarine and marsh evolution due to short- and long-term drivers. Focus on integrated data collection and modeling.

• **E2.** Developing tools to assess future evolution of coastal habitats in response to sediment supply, sea-level rise, hydrodynamics, and bio-physical interactions.

• **E3.** Effects of hydrological management in coastal wetlands on the biogeochemical processes that drive soil accretion, and the implications for subsidence and diminished ecosystem services in response to sea level rise.

• **E4.** Restoring and sustaining ecological function in coastal marshes affected by sea level rise and assessing and improving the resilience of bay and coastal marshes and islands.

• **E5.** Quantifying the inundation effects on marsh vegetation with focus on field data collection. ❖

Students & New Professionals:

A beach lover from an early age

By WENDY LAURENT,
Taylor Engineering and
an ASBPA New Professional

Hello, fellow beach lovers! I am a Coastal Engineer at Taylor Engineering and joined ASBPA's Students and New Professionals Committee in 2018. I have been asked to tell you a little about how I got to where I am today.

My love for the ocean started at a very young age with my first sail at a mere two-weeks old. My parents fueled a nautical, beach lifestyle which ignited my passion for the sea. This led me to pursue both my bachelor's and master's degrees in Ocean Engineering at the University of Rhode Island. While there, I was given a number of unique opportunities including teaching lab classes, participating in a weeklong offshore scientific research cruise, and having arguably the coolest master's thesis topic which involved a great amount of field work in an attempt to better predict bridge scour. Overall, my time at Rhode Island gave me a well-rounded education that provided problem solving skills, hands on experiences, and critical thinking.

During college I had the opportunity to intern with Great Lakes Dredge and Dock on two separate occasions. While working with them, I helped to build two beach projects in Florida and New Jersey. Working in construction allowed me to understand the processes that must occur to bring a project to life. Learning about dredging and surveying expanded my skill set and help me better understand my day to day work.

Currently, I work at Taylor Engineering in Jacksonville, FL. My work focuses on coastal processes and my favorite projects to work on are



Wendy Laurent

beach nourishments and borrow areas in addition to rapid-response hurricane analyses. Recently, I have been spending a great amount of time in our Coastal Geosciences Laboratory processing 15-foot cores for an offshore borrow area feasibility study. Working with the samples allows me to better understand the sediment within each area under investigation. Plus, who doesn't like getting out of the office and getting their hands dirty!

Not a day goes by where I am not thinking about the ocean. Problem solving unique coastal challenges and seeing projects develop from design to construction continues to prove rewarding. I am excited to be a part of shaping the future of coastal engineering! ❖

The Student/New Professional Committee submits a monthly column that either highlights research or experience of ASPBA's students and new professionals. If you are a student or new professional and would like to contribute to the monthly student/new professional column, please contact Corey Aitkin coreyaitken115@gmail.com. If you are seasoned professional and would like to connect with any of the monthly writers, please contact Eve Eise-mann Eve.R.Eisemann@usace.army.mil.



ASBPA welcomes its first fellow

Annie Mercer will be joining ASBPA as nearly full-time "Fellow" for all of 2020. She is based in DC, and will be working with Executive Director Derek Brockbank on a number of national initiatives and governmental affairs-related projects.

Mercer's primary project will be assisting in the Blue Flag Beach feasibility study. Additionally, she will be working on a self-led Government Affairs project.

Mercer has a BA in Psychology from Hood College and a Masters in Forensic and Legal Psychology with a concentration in Intelligence Studies from Marymount University. She interned with ASBPA's Government Affairs Committee in 2019 working on the "Local Funding for Coastal Projects: An Overview of Practices, Policies, and Considerations." Mercer has worked alongside her father Steve at Coastal Transplants since 2003, installing vegetation and sand fence along the East and Gulf Coasts.

You can contact her at annie.mercer@asbpa.org or (910) 368-7847. ❖

Best Restored Shores:

Mississippi River Long Distance Sediment Pipeline



Taken July 30, 2011
Patrick M. Quigley
www.gulfcoastphotos.com
Slidell, LA 70578-3400
A SOAIV owned small business

Marsh creation in Upper Barataria Bay, Louisiana. (Courtesy Patrick M. Quigley.)

By **GERALD SONGY, Moffatt & Nichol, and TRAVIS MOORE, CPRA**

Prior to the channelization of the Mississippi River, the natural migration of the river replenished the Barataria Basin during seasonal flooding with freshwater and sediment. With the construction of the Mississippi River and Tributaries (MTR) levee systems (installed as a consequence of the historic 1927 flood), the Lower Mississippi River Delta, and in particular the upper Barataria Basin, has been starved of the sustaining properties of both sediment and fresh water.

The restoration of this shoreline is of significant importance because it demonstrates the use of Long Distance Pipeline Sediment delivery approach to not only re-create the historic geomorphic features in the region, but it also demonstrates this approach in re-establishing historic sediment pathway, using the sediment delivery system as a surrogate pathway for a natural process.

This area also acts as natural buffer from tides and storm surge for many residents located in the flood

prone areas between Barataria Bay and New Orleans. The design and construction demonstrated significant advances in restoration approach technologies:

- This was the first project to identify the Mississippi River as borrow source material for restoration projects and demonstrated the ability to combined restoration of geomorphic features and restoration of process.

- Lowering the permitted dredging elevation from -70 feet to -90 feet was an industry first and effectively doubled the available borrow material from a single borrow site. This increased the ability to secure the sediment required for large-scale marsh restoration projects sediment.

- State-of-the-art advanced morphological modeling enabled accurate prediction of re-fill rates of the borrow sites. This allowed project managers to establish long-range sediment budgets and efficiently sequence the project increments.

- The first of its kind delivery of multiple projects from a single mobilization/demobilization sequence, as part of the Programmatic Approach to the construction of larger scale restoration projects, demonstrated significant project cost savings (more than \$14 million) over conventional project delivery.

This project has reinforced the Bayou Dupont shoreline with earthen ridges to restore hydrology in the area, and the habitat it established from the intertidal mudflats and marsh plants to the higher upland habitat and ridges restored areas for many different species of wildlife.

The Barataria land bridge, a significant landform composed of salt and brackish marsh, and an integral component of the structural integrity of Louisiana's upper Barataria Basin, is severely degraded. This could ultimately lead to its complete collapse, significantly increasing the storm surge risks in the region. The



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Pipeline.....

■ Continued from page 6

primary goal for this project was to reinforce the structural integrity of the land bridge through the restoration of over 1,015 acres of marsh and over two miles of earthen ridge.

Developing and implementing arapid land-building strategy . The Mississippi River Long Distance Sedi-ment Pipeline (MRLDSP) approach, uses sediment sustainably mined from a renewable borrow site in the Missis-sippi River. This provides the capacity to rebuild large expanses of land on a more aggressive time-scale than is possi-ble with other restoration strategies. It also provides the opportunity for the large-scale restoration projects not previously possible using conventional marsh restoration strategies.

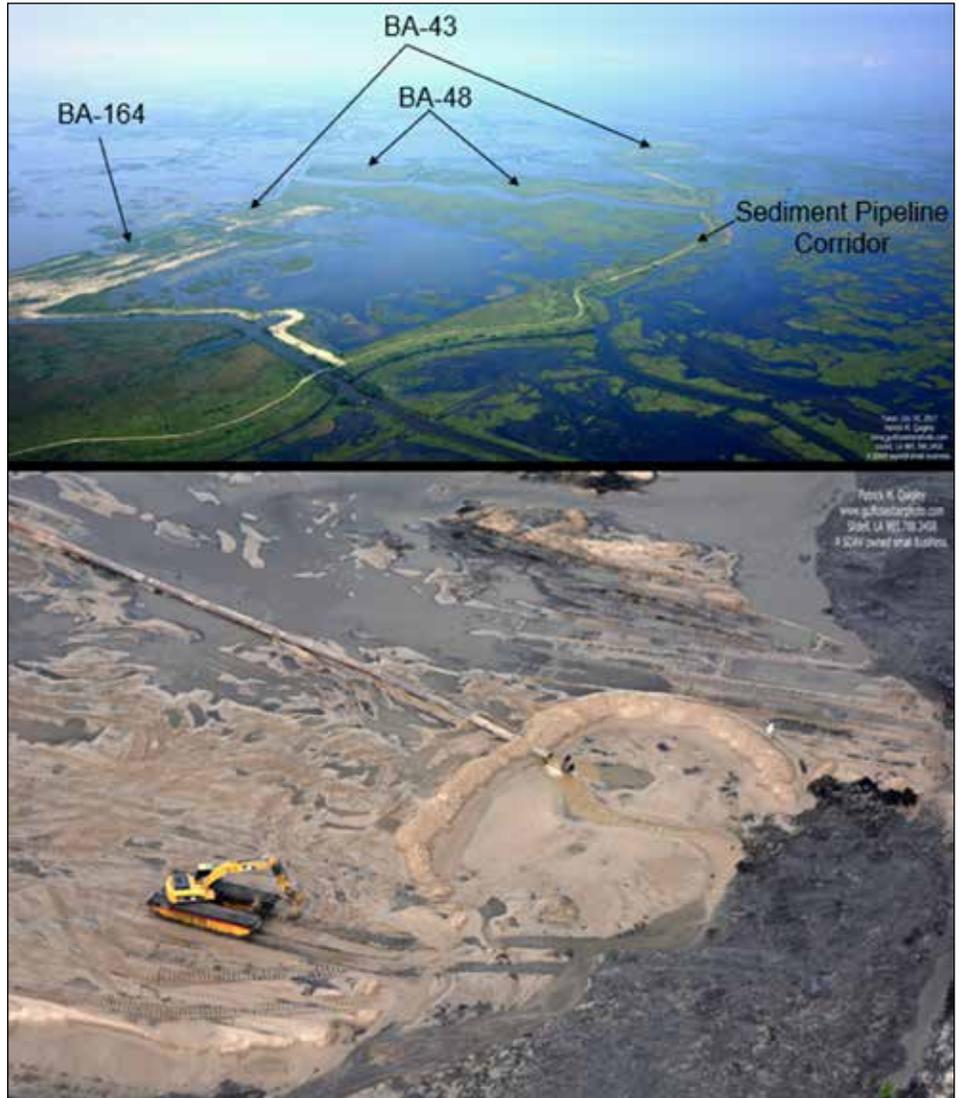
The BA-48 marsh creation area was designed to mimic the historic natural morphology and sinuosity lost because of decades of coastal erosion. This project successfully re-established relic ridge and shoreline geomorphic features as part of the ongoing strategy to maintain the skeletal framework of the historic ridge system that mean-ders across the region.

Key important design features included:

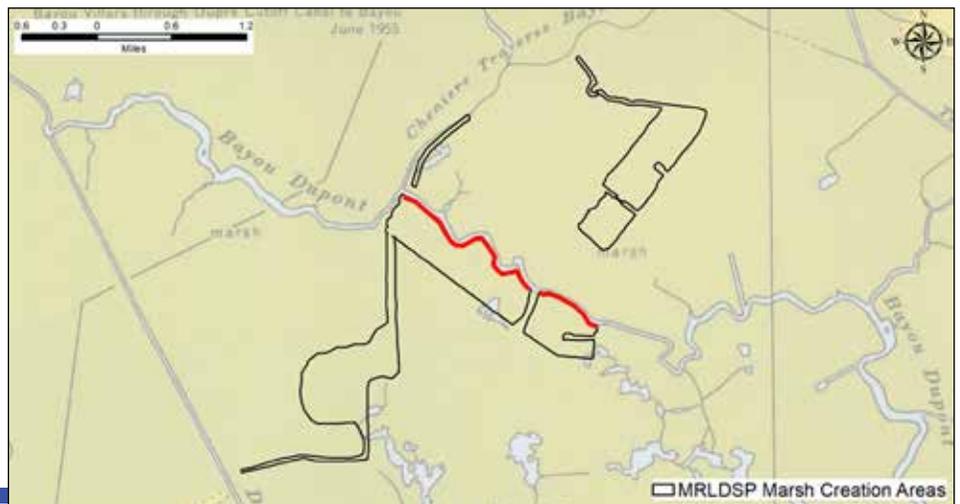
- Defining the location of appro-priate and renewable sediment sources, an evaluation of the potential for the use of interior lakes as a source for borrow site material,
- Development of a cost-effective and permittable sediment delivery scheme for the sequenced construc-tion of large-scale, multiple restoration projects, and
- Development of an objective assessment of sediment delivery align-ments and placement locations using a GIS-based screening, ranking, prioritiza-tion and selection tool.

Once the Mississippi River was confirmed as the source for the borrow material, state-of-the-art morphologi-

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Above: Constructed marsh creation areas (top) and contractor placing and working the marsh fill material (bottom). Top photo facing southwest. (Courtesy Patrick M. Quigley.) Below: 1958 U.S. Coast and geodetic survey map. Note existing marsh extent and Bayou Dupont shoreline re-establishment in red.



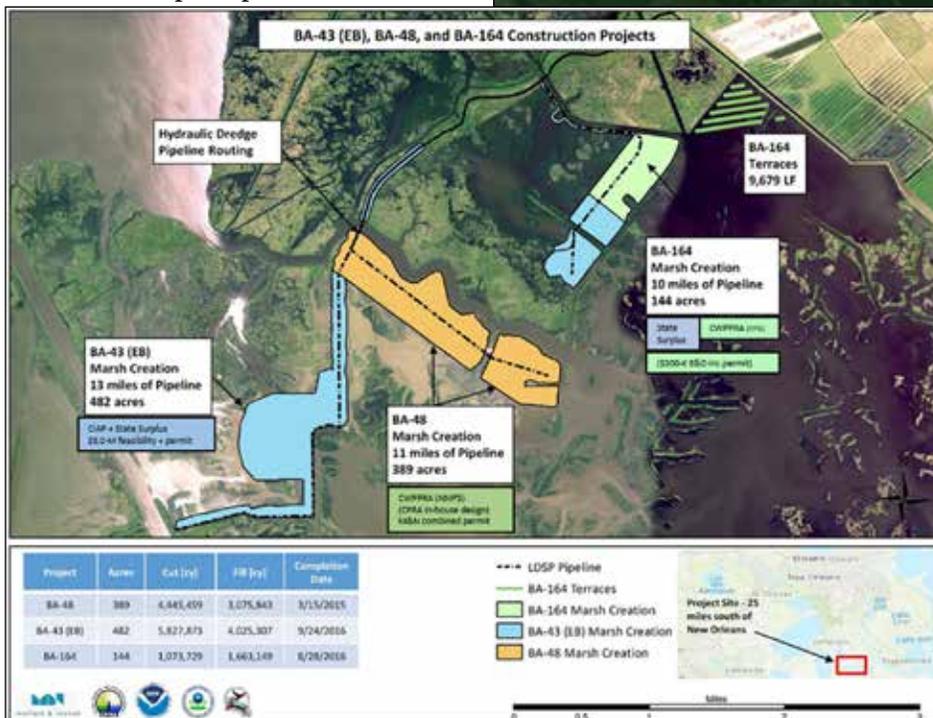
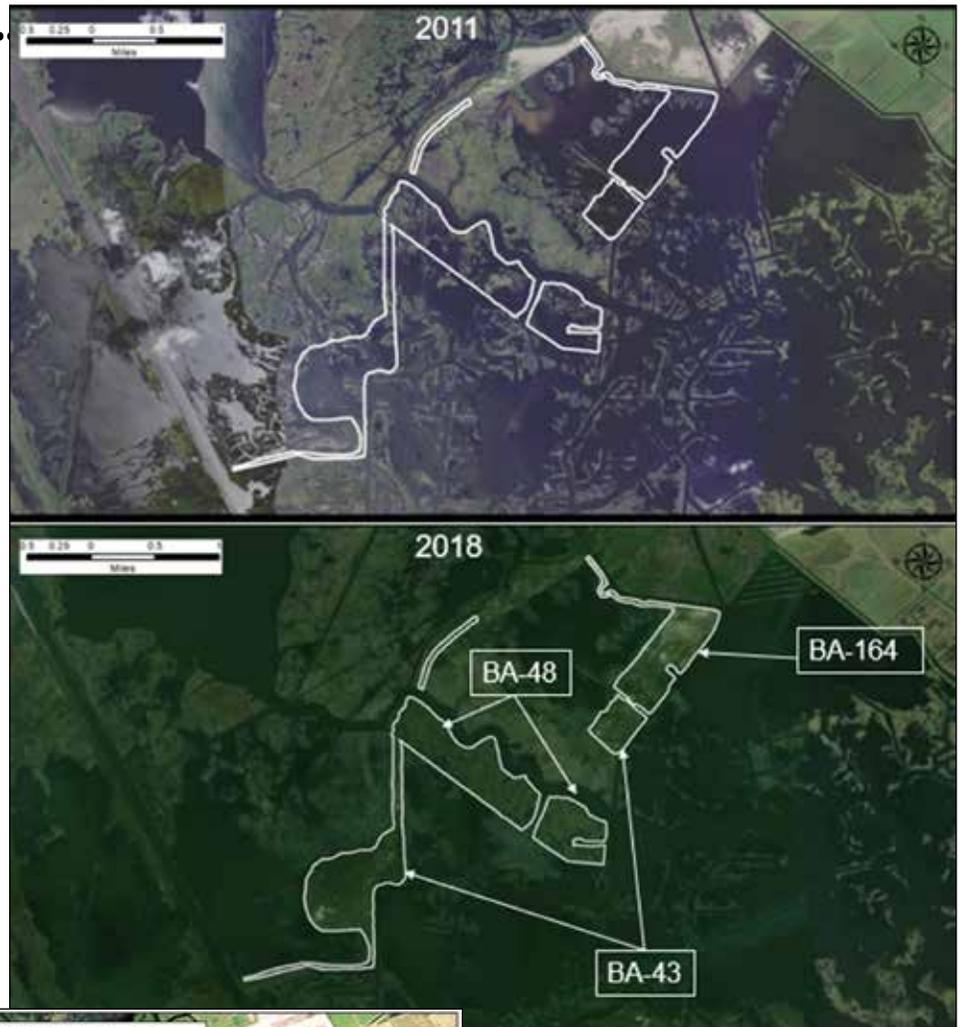
Pipeline.....

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cal modeling estimated the infill rates of the borrow areas in the Mississippi River. The modeling was completed using the Delft3D modeling platform and has proven to be highly accurate over repeated dredging and subsequent infill events, when compared to post-construction surveys and observed in-fill rates.

A key project element was the hydraulic dredging of sediment in quantities never previously attempted. Working closely with the U.S. Army Corps of Engineers (USACE), the project team successfully achieved a cut elevation of -90 feet within the USACE permissible dredging limits for the project permit. The project team regularly consulted with navigation representatives for feedback, so the project could be constructed without affecting regional navigation interests.

One additional challenge was the temporary removal of a rock weir from an existing restoration project that was required to provide necessary construction access. Additional coordination was necessary to temporarily remove and replace post construction,



Above: 2011 aerial imagery (top) and 2018 aerial imagery (bottom) with marsh creation areas BA-43, BA-48, and BA-164 outlined. Left: Project Location Map including marsh fill areas and Mississippi River borrow areas.

tons of existing rock.

One feature of the MRLDSP project was the construction of a pipeline corridor from the Mississippi to the marsh creation sites. The first six miles of the pipeline corridor was installed through pastureland, while the remaining nine miles traversed marsh and wetlands. The contractor installed 13.5 total miles of 30" (inner diameter) steel dredge pipeline. Once the pipeline reached the back levee (mile 6), sediment was pumped from the river to establish the sediment delivery infrastructure corridor.

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Pipeline.....

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The contractor pumped and established a 200-foot-wide by 9-mile-long corridor from the back levee to Bayou Dupont, then from Bayou Dupont to Barataria Waterway. More than 50% of this corridor required construction through existing wetlands. A permanent easement (50-year duration) was established for the pipeline corridor in order to minimize cumulative impacts associated with the delivery of future projects.

To maintain the minimum pipeline pressures, two land-based booster pumps were installed along the corridor between the borrow area locations and marsh fill locations. The contractor accessed high-voltage power lines near the pipeline corridor, extending those lines to the booster pumps. This was the first restoration project that used electric powered booster pumps, which provided significant project cost savings and system reliability.

Given the quality of the Mississippi River sediment versus that of in-situ material, earthen containment dikes were not required around the marsh fill areas. The uncontained perimeters were constructed to form “marsh aprons,” which had gradual slopes and transitioned well with adjacent existing marsh.

The marsh aprons have proven to be beneficial for various shore bird species based on recent visual observations. The shift to semi-confined or unconfined placement provided significant cost savings as well as a reduced impact on sediment budgets required so more sediment could be utilized for restored marsh area construction.

Historically, individual marsh creation projects were constructed using a dedicated mobilization/demobilization per project. Through a programmatic approach by the project team, it was possible to deliver and construct multiple project increments, leveraging multiple dedicated funding



Above: Construction of the containment dikes before (top) and after (bottom) marsh fill placement of the BA-48 Marsh Fill Area (430-acre orange polygon in Project Location Map). Photos facing northwest. (Courtesy Patrick M. Quigley.)

streams from a single mobilization/demobilization.

At the completion of the project, a net of over 12 million cubic yards

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About the project:

- **Location:** Plaquemines and Jefferson Parishes, Louisiana
- **Construction:** April 2014 to November 2016
- **Construction value:** \$102,746,954
- **Engineer manager:** Russ Joffrion, PE, CPRA
- **Principal engineer:** Jonathan Hird, PE, Moffatt & Nichol
- **Contractor:** Weeks Marine

CHAPTER UPDATES

Do you live in Hawaii, California, Texas, Mississippi, Louisiana, Alabama, Virginia, Maryland, Delaware, New Jersey, New York, the Great Lakes states or New England? If so, you are automatically a member of a local chapter. Check out their activities and get involved.

Stevens Student Chapter

By TAYLOR ZIMMERMAN, President

The Stevens Student Chapter just kicked off the Spring 2020 semester. We are looking forward to the upcoming events, which include multiple on-campus technical talks given by scientists and engineers from both private companies and local government. In addition, Stevens Student Chapter will be represented at the ASBPA's Coastal Summit: 2020 Vision

Pipeline.....

■ Continued from page 9

of sediment were added to the upper Barataria Bay from outside the system, creating more than 1,015 acres of intertidal marsh habitat. Additionally, two miles of earthen ridge along Bayou Dupont were restored along with approximately two miles of earthen terraces, improving the hydrology to a similar condition that existed in previous decades along this span of the bayou.

The sediment pipeline corridor constructed as part of this project will be utilized to deliver a further 1,600-acres of marsh adjacent to the MRLDSP project, using approximately \$150 million appropriated as part of from the Natural Resource Damage Assessment (NRDA) settlement as part the assessed Deepwater Horizon criminal penalties.

What originally began as an approximately 400-acre marsh creation

for Our Coasts: People. Policies. Practices. Many members of the Stevens Student Chapter also have fieldwork to look forward to this semester for a variety of projects and locations.

Central East Coast Chapter

By MAURA BOSWELL, President

The Central East Coast Chapter is in the process of expanding our board of directors and is planning to host a webinar this spring. We will also be looking to plan a short conference or workshop for fall 2020. The past two workshops we've held had topics of coastal permitting and resilient shorelines. If you have any ideas or topics you would like to be addressed in upcoming webinars or workshops, please let chapter president Maura Boswell know at mbosw002@odu.edu.

Great Lakes Chapter

By ED LIEGEL, President

The early winter of 2019-2020 is forecast to be a rough one for the Great Lakes shorelines, as years of high water on the lakes – already the cause of beach closures and loss of shoreline across the region – compounds with a storm season that is resulting in devastating damage and escalating costs of repairs. Furthermore, water levels on the lakes could continue to be historically high in 2020, especially as climate projections for the near future indicate a warmer and wetter pattern of precipitation.

The Great Lakes Chapter is embarking on an ambitious agenda for 2020 to address three principle aims: education, connection and advocacy.

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This project leveraged multiple local, state and federal funding streams to construct the entire project, with specific funding streams dedicated to specific project increments

Mississippi River Long Distance Sediment Pipeline Project / BA43-EB.

Funding mechanism:

- Parish Coastal Impact Assistance Program (CIAP) — Funds contributed from Plaquemines, Lafourche, and Jefferson Parish CIAP programs.
- State CIAP — Funds contributed from the State of Louisiana CIAP Program.
- State of Louisiana (CPRA) Budget Surplus Funds.

Bayou Dupont Marsh Creation II and Ridge Restoration Project (BA48)

Funding mechanism:

- CWPPRA2 — National Oceanic and Atmospheric Administration – National Marine Fisheries Service (federal cost-share partner)
- CWPPRA State of Louisiana (state cost-share partner)

Bayou Dupont Marsh Creation III and Terrace Project (BA164)

Funding mechanism:

- CWPPRA — Environment Protection Agency (federal cost-share partner)
- CWPPRA State of Louisiana (state cost-share partner)
- State CIAP — State of Louisiana CIAP program surplus funds

project, the project nominated here for an ASBPA Best Restored Shores Award, has established the foundation for delivery of nearly 3,000-acres of marsh habitat along the critically degraded upper Barataria Land-Bridge.

For reference, a U.S. coast and

geodetic survey map from 1958 shows the historical extent of the marsh. Notice that much of the land shown in the map on page 7 was previously continuous marsh that degraded into broken marsh or open water between the 1950s to the early 2000s. ❖

Chapters..... ■ Continued from page 10

For education, the Great Lakes chapter will be holding quarterly webinars or workshops through the year, beginning in March with a webinar looking at the reconstruction of a major breakwater on Lake Michigan, from planning through construction, and illustrating the process and challenges of Great Lakes work during a period of high water levels. The Great Lakes chapter will also be holding a conference in late 2020 to present research and practical experience from our members.

For connection, the chapter board is conducting outreach to parks departments, coastal zone managers, the USACE and communities around the Great Lakes to investigate what the on-the-ground experience of high water levels is, and what ways the ASBPA can help communities be resilient.

For advocacy, the chapter board will be meeting with legislators in Great Lakes states both at the Coastal Summit in March, as well as in local meetings throughout the year.

As was the case in 2019, the Great Lakes chapter is still looking for candidates to serve on the board of directors, particularly in the eastern Great Lakes region. For information about the board, and for our event calendar for 2020, please visit the chapter website at <http://asbpa.org/greatlakes/>.

Northeast Chapter

By **DAN BARONE, President**

Greetings from the Northeast Shore and Beach Preservation Association (NSBPA)! Our chapter has been busy in the new year, preparing new workshops and representing ASBPA at professional meetings.

Upcoming for 2020, NSBPA will be hosting a workshop on “Beneficial

New Hawai'i Chapter president announced

Andrew Wycklendt, P.E., is the President of the Hawai'i Shore and Beach Preservation Association. He is also a Senior Coastal Engineer and Program Manager for APTIM who has designed and implemented a variety of coastal restoration, shoreline protection, sediment management, and navigation projects along Pacific, Atlantic, Gulf, and Arctic coasts. He has worked in barrier island, headland and embayment, estuarine, deltaic, cliff, pocket, perched, and open coastal systems to restore or nourish beaches that can be classified as either mixed sediment, sand, cobble, boulder, or volcanic. He earned his BS in Ocean Engineering from Florida Atlantic University and his MS in Ocean and Resources Engineering with an emphasis on Coastal Engineering from the University of Hawaii. ❖

Use (BU) of Dredged Material for Coastal Resiliency” on May 19th at Monmouth University. Due to coastal projects that often utilize navigation channel dredging as an opportunity to reuse dredge material, regional approaches to the management of sediments (RSM) and the beneficial use of dredge material (BUDM) are critical components for ecosystem resilience and community flood-risk reduction.

The goals of the BU workshop will be to (1) improve understanding of the magnitude of coastal wetland and sediment loss in the region due to sea level rise, erosion, and dredging; (2) provide case studies for resilient and sustainable restored and created wetlands using dredged sediments and; (3) address barriers for the implementation of projects.

NSBPA is also preparing a second workshop in New England, focusing on resilience projects in the second half of the year!

In addition to these upcoming activities, on Jan. 16 NSBPA President Dr. Dan Barone presented at the University of Pennsylvania Water Center's “Financing Coastal Resilience Summit” hosted by Coastal Strategies. Dr. Barone's talk focused on how to prioritize resilience projects with key stakeholder input. The project area for Dr. Barone's talk focused on NNBF projects along the Raritan/Sandy Hook Bay Shoreline. Identified projects were prioritized based on an online GIS-

based suitability analysis to provide a quantitative and qualitative approach for selecting NNBF coastal resilience projects.

Hawai'i Chapter

By **ANDREW WYCKLENDT, President**

The Hawai'i Shore and Beach Preservation Association (HSBPA) started the year with a Board of Directors meeting that reiterated the vision discussed during our annual meeting. We also reflected on the planning that is occurring at the national level as highlighted in last month's Coastal Voice article “A 2020 Vision for Our Coast”. Considering the 2020 visionary theme, our first 2020 Board of Directors meeting focused on identifying annual goals and establishing committees used to help achieve these goals. Annual goals identified include the following: 1) engaging membership more fully, 2) continue to provide testimony and expert opinion on coastal projects, and 3) develop social media and social outreach programs. Committees maintained or formed to help achieve these goals include: 1) Executive, 2) By-Laws, 3) Membership/Outreach, 4) Workshop/Conference, 5) Legislative, 6) Budget, 7) Federal and Non-Federal Funding, and 8) Science and Technology.

The primary goal identified for

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this year is to engage our membership more fully. The thinking is that if we can engage and expand our membership, which we are pushing to double in size, our voice as an organization will grow and we can become more effective. To achieve this goal, we plan to focus our efforts on outreach and communication. Rather than taking on this task internally, we have decided to approach like-minded organizations in an effort to use their reach to help us grow our organization. Approaches discussed thus far include membership drives and local conference partnerships.

To help our group get together more often for casual conversation on shoreline issues, we have decided to piggyback on Surfrider's Hawai'i Chapter monthly Pau Hana (i.e. end of work) event, which circulates around Ocean Friendly Restaurants in Honolulu; Ocean Friendly Restaurants is a Surfrider Foundation program to highlight restaurants that adopt sustainable business practices. The event is free, open to everyone, and usually there's a drink and pupu (i.e. appetizer) special. This event provides an opportunity to engage with like-minded people passionate about the coastal environment and we hope to inspire new HSBPA members at these monthly gatherings. The next Pau Hana is Feb. 12 between 5:30 and 7:30 PM HST at Encore Saloon in Chinatown.

Last year we started to discuss the possibility of hosting a special workshop at the Pacific Risk Management 'Ohana (PRiMO) conference. The PRiMO conference is the premier venue for community leaders interested in protecting Pacific Island communities from natural hazards ([https://coast.noaa.gov/primo/](https://coast.noaa.gov/prim/)). Although we will not be hosting a workshop at the PRiMO conference this year, several of our members plan to attend the event. Specifically, we will be evaluating the

venue and discussing workshop ideas with both conference hosts and participants. The next PRiMO conference takes place March 10 to 13, 2020 at the Hawai'i Convention Center in Honolulu, Hawai'i.

Outreach and communication, which we have identified as a key area for growth, will continue primarily through our electronic newsletter and social media. Although we are still finalizing details, the newly formatted newsletter will likely be a HSBPA membership benefit that summarizes discussion items, identifies upcoming relevant conferences and public meetings, outlines coastal related environmental review and legislative items, and generally provides our membership with additional information so they can become more involved and help grow our organization and the technical voice that we provide. We plan to use social media simply to inform the general community of coastal related issues; our presence and the services we provide; and how to learn more and become a member.

Future membership drives, likely coordinated with established local organizations, and conferences, ideally in partnership with state and county agencies, will be included in both our electronic newsletter and in social media to engage existing members and to promote membership growth.

Central Gulf Coast Chapter

By BRET WEBB, President

Happy New Year from the Central Gulf Coast! We have an exciting year planned for 2020. From our first annual ASBPA Central Gulf Coast Conference, to our partnership with Embrace The Gulf 2020, we will attempt to further our mission of advocating for our regions shores and beaches.

Chapter Meetings: The CGC

Membership update

Thanks to all of you who renewed for 2020. We are in the process of sending out a final set of reminders. Remember, unless your membership began with the National Coastal Conference, it expired on Dec. 31. ASBPA memberships are based on the calendar year. ❖

Chapter will continue its tradition of conducting three lunch and learn meetings throughout the year. Those meetings provide professional development, continuing education, and networking opportunities for the coastal practitioners of the Central Gulf Coast and beyond. Our meeting dates, times, and locations (TBD) are as follows:

- **March 19**, 11:30 a.m.-1 p.m. at Mobile, Alabama.
- **June 18**, 11:30 a.m.-1 p.m. at New Orleans, Louisiana.
- **Sept. 17**, 11:30 a.m.-1 p.m. at Biloxi, Mississippi.

Please consider volunteering to give a presentation at one of our Lunch & Learn meetings this year. The official Call for Speakers is online at: <https://forms.gle/6bYu2rR1E5LfFPmT7>.

GOMESA Revenue Sharing Coalition: Members of the Chapter Executive Committee and the Board of Directors, specifically Vice President Lauren Averill and Board Member Jack Koban, have been working tirelessly to advocate for protection and expansion of coastal project funding from the Gulf of Mexico Energy Security Act. The coalition, which includes state officials, business and industry leaders, civic organizations, and ASBPA members, is supporting new legislation proposed in both the House and Senate that would increase the GOMESA state's (AL, LA, MS, TX) share of oil and gas revenues to 50 percent, matching the percentage of inland state's share of land-based exploration activities.

Chapter 2020 Conference: The

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ASBPA Central Gulf Coast Chapter will conduct its first annual regional conference in 2020. This will be a one-day event with technical presentations. We would like to see a strong member turnout to either present at or attend this meeting. We also hope to encourage a strong turnout from students in our region. We will work with the ASBPA Students & New Professionals committee to make this happen, and to provide the students with a positive professional development opportunity.

Embrace the Gulf 2020: This is the Year to Embrace the Gulf (ETG)! The ETG 2020 campaign is all about educating people on the importance of the Gulf of Mexico. The campaign focuses on community, tourism, economy, education, and the environment. Head on over to <https://gulfofmexicoalliance.org/embrace/> to learn more, including how you can get involved! Chapter activities in 2020 will complement the ETG 2020 focus areas.

Texas Chapter

By **JERRY MOHN, President**

Texas ASBPA Chapter started the 2020 year with a meeting in Rockport, Texas, (photo above) on Jan. 17. Rockport is just above Corpus Christi and a real jewel along the Texas coast. We had great presentations and an outstanding lunch and a nice welcoming speech by the Mayor and Chamber of Commerce.

The main purpose of the meeting was to hear about the recovery of Rockport since Hurricane Harvey made landfall there on Aug. 26, 2017, as a Category 4 storm, causing \$125 billion in damage to the Texas coast, including Houston, and the loss of 90 lives.

The Rockport City Manager pro-



vided a presentation on the impacts of Hurricane Harvey and the subsequent rebuilding and recovery efforts. Damage in Rockport was primarily from wind, not flooding or storm surge. Approximately 95% of the structures in Rockport sustained damage. The hurricane caused two indirect fatalities. Although recovery efforts are ongoing, Rockport's economy has begun to recover fairly well in many categories, including tourism.

We also heard from the Harbor Master of the Aransas County Navigation District about the Little Bay Reefs and Shoreline Protection Project. This project has improved water quality, coastal ecology, and recreational opportunities in Little Bay.

The Coastal Erosion Planning and Response Act (CEPRA) Program Manager from the Texas General Land Office (GLO), provided an overview of the CEPRA program and other programs that provide funding for coastal restoration projects. The GLO manages the entire Texas coast, and funding for coastal restoration and protection remains strong in Texas.

At the meeting, the members approved the Federal Legislative Agenda developed by the Texas Chapter. Texas ASBPA Chapter members will use this when they attend the ASBPA Coastal Summit in Washington, DC, March 24-26 this year and meet with their

Members of Congress.

We then heard an update on Coastal News Today (coastalnews.com) and the American Shoreline Podcast Network. The Rockport meeting was also our annual meeting where we approved Board Members and at the end elected officers for 2020.

The Texas ASBPA Chapter plans a fifth Symposium this year most likely in Port Aransas at the end of March. We have a theme for the meeting and presenters submit abstracts on what they plan to present. The Symposiums are always well attended and very educational.

The Texas Chapter will have a fifth partnering and collaborating meeting with the U.S. Army Corp of Engineers, Galveston District, who manages all the Texas coast, in Galveston, most likely mid-August. These are always popular for the members where we hear of various coastal projects by the USACE and especially the ongoing Coastal Texas Protection and Restoration Feasibility Study, which is currently the largest civil works feasibility study in USACE and in the United States.

The Texas ASBPA Chapter attempts to have three to four meetings up and down the Texas Coast and we will most likely plan one for December to close out the year, possibly the upper Texas coast. ❖

AI a natural fit for coastal science?

By PHILIPPE TISSOT, Ph.D.,
Associate Professor, TAMUCC

While for decades artificial intelligence (AI) had seen ups and downs in interest starting in the 1950s, and including the AI winter of the 2000s, the concepts and ideas have now matured. The breathtaking changes in computational power and availability have enabled a remarkable transformation of AI, spurred by the advent of deep learning. Many scientific fields, as well as our daily lives, are increasingly impacted. While one should remain cautious of new technologies and methods — some claims in a booming field will likely not materialize — AI continues to hold great promises including for substantial advances in coastal science.

Around 2000, our institute had just set up the full management of a large coastal observation network, The Texas Coastal Ocean Observation Network,¹ through the web. This was quite a feat but it was also an opportunity; we now had access in real time, within a few minutes, to metocean data from over 30 locations. What else could be valuable to our stakeholders? At the time, and still presently for most Texas coastal locations, we did not have water level predictions that meet NOAA criteria for accuracy (e.g. CF[15cm]).

The Texas coast is microtidal and atmospheric forcings dominate for hours to days. Artificial neural networks turned out to be an excellent solution to model the nonlinear relationship between recently measured water levels, measured and NOAA predicted atmospheric forcings and future water levels.^{2,3} Most important, although training the neural networks took significant time, once trained they provided almost instantaneous predictions using the latest measurements.

As an important bonus for our institute, the system was low maintenance. These predictions were opera-

tional for a decade until about 2014. This is still a very computationally efficient approach. Alternatives include hydrodynamic models which provide information on more variables and at all locations within their domain, but are more complex to set up and maintain. Coastal operational AI predictions have worked well thanks to the availability of coastal measurements and gridded atmospheric predictions, and should become increasingly straightforward to implement.

This early use of AI was the start of a symbiotic relationship between our institute focused in part on precise measurements and gathering the large data sets necessary for machine learning methods, our modeling group and Artificial Intelligence. The team tested and implemented different methods including random forests, self-organizing maps, ensemble of neural networks and lately deep learning methods.

Most of the work has been focused on coastal processes, at the intersection of land, water and atmosphere and home to many nonlinear processes. Deep learning has brought new opportunities such as using deep neural networks for fully nonlinear dimension reduction,⁴ processing images and the prediction of time series. Other research has focused on using AI to improve digital elevation models of coastal marshes while quantifying the uncertainty of the model through ensembles of neural networks.⁵

There is no doubt that AI will play a big role for the analysis and prediction of coastal processes. In particular, large data sets such as satellite imagery are still underutilized and deep learning applied to coastal imagery holds promises. Discussions at our last ASBPA conference included the importance and how to integrate the underlying Physics in AI. There is increasing visibility within the AI “boxes”⁶ and attempts are ongoing at integrating physics more explicitly, for

example, in model loss functions.

But one should not forget that AI is applied to nonlinear problems and that expecting transparency similar to linear systems is simply unrealistic and likely unproductive. AI allows us to quantify the dynamic of coastal problems in a different way and scientists should be ready for that experience both with its limitations and its potential for better performing models and new discoveries.

To fully take advantage of AI and develop new coastal models and methods, we will need fully integrated teams of computer and coastal scientists who speak each other’s language, the availability of large data sets and, preferably, substantial computational resources. Without such collaborations, coastal scientists learning about AI are unlikely to be able to take full advantage of these methods and straight AI “number crunching” is not enough without a good understanding of the field. ❖

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2020 Coastal Summit: 2020 Vision for Our Coasts: People, Policies, Practices

Tuesday-Thursday, March 24-26

ASAE Conference Center ■ 1575 I Street NW, Washington, DC

Join us for three days of policy, technology and advocacy in Washington, DC. Information and program at www.asbpa.org. Draft program available Jan. 24.

Advocacy: Wednesday afternoon is set aside for targeted advocacy. We will discuss ASBPA's legislative agenda and how to have an effective meeting with your legislator or agency during the sessions. We strongly urge you to schedule advocacy meetings for Wednesday afternoon in advance of your travel.

Meetings with Members of Congress or their staff: ASBPA has a legislative agenda, and your organization may have some agenda items as well, that need to be discussed with legislators. Please confirm your Representative and Senators using the links below, then contact their offices to set up a meeting for Wednesday afternoon. Members of Congress prioritize meeting with people from their district or state, so be sure to identify yourself as a constituent when you set up the meeting. Those who wish to attend meetings with coastal agencies are urged to set up

meetings with Members of Congress on Thursday afternoon.

- Representatives: www.house.gov
- Senators: www.senate.gov

Meetings with coastal agencies: ASBPA is arranging for a number of advocacy meetings with agencies such as NOAA Office of Habitat Conservation, BOEM, FEMA, and USACE. The registration form provides you with opportunity to sign up for one of these meetings. Non-U.S. citizens planning to visit the USACE should contact us for requirements.

Short Course: ASBPA and Coastal Zone Foundation (CZF) have teamed up together to present a series of short courses for the Certified Coastal Practitioner credential. Thursday, March 26, 1-5 p.m., CZF will present the Government Affairs module. Professional development certificates will be awarded to those who successfully complete the course.

Hotel: There is no conference hotel. The conference venue is near to McPherson Square Metro Station (Blue/Orange lines), accessible to many hotel options.

Fact Sheet:

Online registration open at <http://www.asbpa.org/conferences/December>

- **Registration:** Tuesday, March 24, 10 a.m.
- **Plenary sessions:** Tuesday, March 24, 1-5 p.m., Wed. March 25, 8 a.m. to noon Thurs., March 26, 8:30-11:30 a.m.
- **Advocacy meetings:** Wednesday, March 25, 1:30 to 4 p.m.
- **Hill briefing:** Wednesday, March 25, 4-5 p.m.
- **Coastal Celebration reception:** Wednesday, March 25, 5:30-7:00 p.m., on Capitol Hill
- **Closing:** Thursday, March 26, noon
- **Certification Short Course:** Thursday, March 26, 1-5 p.m. (Government Affairs module)

Chairs: Brian Caufield • Margarita Kruffy • Mike McGarry

Committees:

- Joan Pope – Advocacy
- Nick Brown - Awards
- Dan Adams – Sponsorship
- Lee Weishar – Short Course

ASBPA contacts:

- Derek Brockbank, Executive Director (202) 827-4246 • Derek.Brockbank@asbpa.org
- Kate & Ken Gooderham, Managing Directors • (239) 489-2616 • managing@asbpa.org

Online: www.asbpa.org

REGISTRATION FEES

| | ASBPA member | Non-ASBPA member* | Student member | Student non-member* |
|------------------------------|--------------|-------------------|----------------|---------------------|
| Until midnight Feb. 24 | \$395 | \$515 | \$75 | \$100 |
| After Feb. 24 | \$445 | \$565 | \$75 | \$100 |
| At the door (after March 18) | \$495 | \$615 | \$85 | \$110 |
| Short course | \$75 | \$75 | \$35 | \$35 |

Sponsorships are available...full details at www.asbpa.org

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 March 18, 2020.
* Registration fee includes 2020 ASBPA membership.



Conference bag sponsor



Exhibitor



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Thanks to our
2020 Coastal
Summit sponsors

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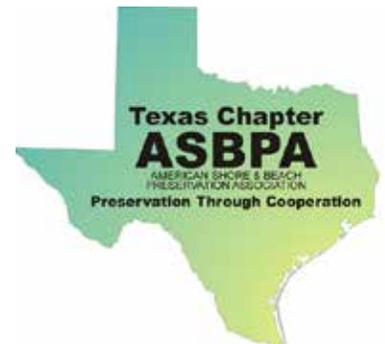
General sponsors



Coastal Celebration sponsor



Notebooks sponsor



Updated 2020 Coastal Summit program
online at www.asbpa.org/conferences



CALL FOR NOMINATIONS:

The American Shore and Beach Preservation Association's 2020 Best Restored Beaches Award

• Nominations due April 6, 2020 •

ASBPA is seeking nominations for the Best Restored Beaches Award to recognize beach renourishment projects. This award honors the Best Restored Beaches in America annually to help build awareness of the value of America's restored beaches. The award-winning projects on America's shorelines and on the Great Lakes' shorelines could include:

- Beach and shoreline renourishment project on open coastlines
- Dune projects
- Coastal resiliency projects with a sandy beach or dune component
- Inlet management and regional sediment management (RSM) projects including beach placement
- Beach and shoreline projects on open coastlines with structures that enhance the performance of beach renourishment projects

Continued public support for restoration is crucial and often difficult to maintain when restoration projects become rare and become routine. ASBPA encourages nominations from established, as well as new, projects for the 2020 Best Restored Beaches Award.

To meet submission deadlines, all nominations must be sent electronically to Bestrestoredbeach@asbpa.org by April 6, 2020. The nomination text must be in MS Word or PDF format. Photographs must be saved in JPEG or TIF formats. A nomination checklist is available at www.asbpa.org. We encourage all applicants to use this form to make sure their application is complete.

Nomination packages at a minimum must contain the following:

- Nominator's contact information (name, address, phone, fax, email), and the name and contact information



for the nominee's public affairs specialist to coordinate with the media.

- Project location map.
 - The name of the project manager and the construction contractor.
- If consulting firms were used in the design and/or permitting, provide the consulting firm's principal scientist, biologist, ecologist or and/or engineer as appropriate.

Project narrative, including the following:

- Effectiveness and purpose of the project. Describe the primary objective(s) and any secondary objectives of the project. Discuss the how effective the project was in meeting both primary and any secondary objectives?
- Design features including constraints and challenges. The nominee should provide a comprehensive description of the design.
- Identify the issues (both positive and negative) that influenced the project design.
- Construction methods. The nominee should provide a description of, construction methods. Projects with innovative design and construction methods that were effective and able to meet project's purposes will be favored.
- Funding. Describe the funding sources and how any obstacles or hurdles were overcome. Projects

with public / private partnerships and monitoring to document project performance success will be favored.

- Several professional-quality color photographs of the restored beach with a signed release (tourist development councils and local resorts are good sources for photos of this quality). Include before and after restoration photographs.

- A statement about why you consider this project is Best Restored Beach. (It is important to let the committee know you are passionate about your project and that the restoration project was a benefit to the community, the habitat, and/or was beneficial in increasing coastal resiliency.

- Quantified outcomes (benefits resulting from the successfully executed project) are especially helpful.

Please include beach nourishment data for your current project, and historic beach nourishments, to include volume (cubic yards), cost, and length of shoreline restored. Your project will be added to our online geodatabase: <https://gim2.aptim.com/ASBPANationwideRenourishment/>

The Awards Committee will evaluate the nomination based on your responses to these questions. Please feel free to describe in more depth what efforts were required

Winners will be notified in advance. ASBPA will prepare press releases to notify the media of the winner. Winners must agree to provide press releases to their local media and arrange for a representative to be present at the 2021 ASBPA Summit in Washington, DC, to accept the award.

All materials submitted will become property of ASBPA and will not be returned. ❖

ASBPA 2020 National Coastal Conference:

Call for abstracts open, due May 1

ASBPA, in cooperation with the Coastal Zone Foundation, announces the Call for Abstracts for its 2020 National Coastal Conference, Oct. 13-, 2020 at the Westin Long Beach in Long Beach, CA.

ASBPA is the nation's first organization to promote science-based policies for the preservation of coastal areas. The theme of the 2020 conference, **"2020 Vision for Our Coasts: Shifting Shores, Surf & Sediment,"** continues to broaden our focus across the coastal zone. The National Coastal Conference provides an opportunity for coastal stakeholders and managers to develop collaborative networks to promote best management practices, while learning the latest science, engineering and policy needed to maintain and improve the health of our beachfront and estuarine shorelines and ecosystems.

In addition to our usual content of coastal science and engineering, policy and management, restoration and resilience, this year ASBPA's conference has a dedicated call for presentations on coastal and beach resource management. This track focuses on the challenges of beach management operations and coastal land use especially when considering the impacts of Sea Level Rise (SLR); this session will explore the complexities of coastal resource management and restoration projects and the specific challenges associated with the competing demands and interests of diverse stakeholders, this session also intends to share experiences in dealing with issues



such as communication and outreach for overarching physical drivers such as sea-level rise, sediment deficiencies, king tides and the impacts on the urban flooding environment.

Presentations or posters are invited for a broad range of technical, science, engineering, economics, coastal management, hazard risk management and policy topics.

Specific topics include, but are not limited to:

- Beach Restoration and Management
- Coastal Design Concepts and Projects
- Green/Grey Infrastructure and Living Shorelines
- Regional Comprehensive Coastal Studies
- Lessons Learned from Storms and Extreme Events
- Coastal Landscape Architecture
- Coastal & Estuarine Modeling
- Coastal Hazard Mapping & Analysis Tools
- Sea Level Rise Guidance, Planning and Policy
- Beach Operations and Maintenance

- Lagoon, Wetland, Marsh, and Estuary Restoration and Enhancement
- Regional Sediment Management
- Economics of Coastal Resources
- Federal, State, and Local Coastal Policy, Regulatory and Legal Issues
- Sand Source Availability and Rights
- Coastal Infrastructure Management
- Resiliency and Adaptation Policy
- "Nuisance Flooding" and Urban Flooding Challenges

Presentations may be PowerPoint or poster format. Abstracts (up to 500 words) are due by May 1, 2020. Submit abstracts via the online form at www.asbpa.org. Presenters are responsible for all of their expenses including travel, lodging, and registration fees. Notification of presentation status will occur by June 19, 2020. Additional information can be found at www.asbpa.org. ❖

CONFERENCES

■ **Feb. 5-7: FSBPA National Conference on Beach Preservation Technology**, Hyatt Regency Sarasota, Sarasota, FL. Details at fsbpa.com.

■ **March 24-26: ASBPA Coastal Summit**, ASAE Conference Center, Washington, DC. Details to come; see elsewhere in this newsletter for information on focus and awards.

■ **April 20-21: North Carolina Beach, Inlet and Waterway Association's 2020 Spring Local Governments Meeting**, at The Islander Hotel and Resort, 102 Islander Drive, Emerald Isle, NC 28594.

■ **Oct. 13-16: ASBPA National Coastal Conference**, Long Beach Westin, Long Beach, CA. Details to come. ❖