

Restore America's Estuaries 8th National Summit on Coastal and Estuarine Restoration and 25th Biennial Meeting of The Coastal Society

Our Coasts, Our Future, Our Choice



Hilton Riverside Hotel

New Orleans, Louisiana

December 10-15, 2016

Summit 2016 App

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National Summit Agenda Here!

<http://rae-tcs-summit.org/mobile>



RESTORE
AMERICA'S
ESTUARIES



THE
COASTAL
SOCIETY

www.estuaries.org/summit

#RAETCS16

Welcome to the 8th National Summit on Coastal and Estuarine Restoration and 25th Biennial Meeting of The Coastal Society!

On behalf of Restore America's Estuaries and The Coastal Society, it our pleasure to welcome you to the 8th National Summit on Coastal and Estuarine Restoration and the 25th Biennial Meeting of The Coastal Society. This marks the second consecutive National Summit that RAE and TCS have co-hosted, as we look to build upon our successful collaboration of 2014 and once again use the Summit to unite the restoration and coastal management communities. We're also fortunate this year to have as our local host the Coalition to Restore Coastal Louisiana, a member of the RAE alliance, whose efforts in helping plan and coordinate this event and its many components we greatly appreciate.


The Summit will kick off on Saturday with a Community Service project, through which dozens of conference attendees will get their hands dirty planting trees in the Caernarvon Delta. The efforts of these volunteers will promote land growth, increase storm-surge retention, and build resiliency. Sunday will bring a diverse mix of informative and engaging field sessions and workshops. The day will be capped off by the Presidents' Opening Reception in the Expo Hall, which this year will include more than 80 exhibitors representing a wide range of sectors. The ensuing few days will be packed with opportunities for learning and networking, including more than 550 oral presentations in 110 sessions, as well as more than 200 poster presentations, which we encourage you to explore during Tuesday evening's Poster Happy Hour.

Additionally, we are highly excited to present two compelling plenary sessions, beginning with the Marc J. Hershman Opening Plenary Session on Monday. Titled "The Gulf of Mexico – Proving Ground for Regional Recovery Strategies," this timely discussion will explore how restoration in the Gulf is faring as enormous resources start to pour in, and identify lessons applicable for the rest of the nation. The expert panel represents science, integrated approaches to resiliency, and community leadership. In the closing plenary on Wednesday afternoon, we will have a fascinating and challenging panel discussion exploring "What the New Congress and Administration Mean for Advancing Coastal Restoration and Management." The discussion will draw on the experiences of politically astute and experienced leaders in coastal conservation, communications, and climate change policy.

The theme of this year's conference, "Our Coasts, Our Future, Our Choice," was selected to reflect the environmental, economic, and cultural importance of our coasts to residents of surrounding areas and to the nation as a whole. It was also selected to underscore the fact that the future of our coastal ecosystems hangs in the balance to a greater extent than ever, and that the choices we make will determine whether these priceless areas and the natural resources they contain are able to be enjoyed by generations to come.

There is perhaps nowhere on Earth that better demonstrates both the deep and wide importance of the coasts to local communities, as well as the uncertain future they face, than the city in which we now gather. When RAE hosted its 2006 Summit in New Orleans, it was one of the first major conferences to be held in the city that was still suffering from the devastating impacts of Hurricanes Katrina and Rita. As we return to New Orleans on the 10th Anniversary of that conference, we have clearly seen that this city and its people are unbelievably resilient. Sadly, however, we have also seen that its coastlines are not. Like coastal communities throughout the country, the people and natural resources of New Orleans remain in dire need of increased protection against natural and anthropogenic disasters, the impacts of climate change, and a host of other threats. Fortunately, the people and organizations that are participating in this Summit bring with them a wealth of education and experience on how to counter these threats. It is therefore our profound hope that each of you makes the choice to learn from and contribute to this combined wisdom, and to leverage the relationships and knowledge you acquire and further develop over the next few days to ensure that our coasts are a vibrant, healthy part of our future.

We hope you enjoy this year's Summit...and by all means "profiter de la nouvelle orléans."



Jeff Benoit
President and CEO
Restore America's Estuaries



Matt Nixon
President
The Coastal Society

About the Artist

Marian Brister Martinez is a multi-faceted artist whose work encompasses a variety of mediums and subject matter that range from landscape, the figure, and architectural drawings to traditional religious iconography. As a Louisiana native growing up near the mouth of the Mississippi River, Ms. Martinez's influences are reflected in her work of coastal Louisiana. As a contributor to the preservation of the history of her area, she strives to capture the culture and heritage of the communities in coastal Louisiana in a number of her pieces.

Ms. Martinez has designed publications for wetland awareness programs such as Turning the Tide, A Companion Teaching Guide in conjunction with the LPB film "Turning the Tide"; Spirit of the Estuary: Using Art to Understand Ecology, Claude and Clawdette's Estuary Adventure and Louisiana Estuary Cuisine with Chef Brandon LeBlanc. She is published in Louisiana Laurels, a book of poetry and essays written and illustrated by Louisiana authors and artists. She has been represented in galleries extending from Covington, Louisiana, to McAllen, Texas, and is the recipient of the Coalition to Restore Coastal Louisiana 2007 Coastal Stewardship Award.

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For more information, presenter abstracts, and to create your own personalized schedule of events please visit:

<http://rae-tcs-summit.org/mobile>

General Information



About Restore America's Estuaries

Established in 1995, RAE is a nonprofit dedicated to the protection and restoration of bays and estuaries as essential resources for our nation. RAE and its alliance members collectively work with hundreds of partners and thousands of volunteers in coastal regions throughout the nation. RAE has also been a leader in the economics and valuation of estuaries, blue carbon, living shorelines, national advocacy, and a wide variety of coastal restoration issues. The ten RAE alliance organizations are leaders in regional efforts around the country to restore bays, estuaries, and coasts.

About The Coastal Society

Established in 1976, TCS is an organization of private sector, academic, and government professionals and students. The Society is dedicated to actively addressing emerging coastal issues by fostering dialogue, forging partnerships, and promoting communications and education. TCS has five student chapters across the U.S. anchored at institutions of higher education: Duke University, University of North Carolina at Wilmington, East Carolina University, University of Rhode Island, and Eckerd College. The Society is committed to nurturing young professionals from these programs and to empowering interdisciplinary coastal professionals, scientists, and decision-makers to promote and effect improved management of the coasts and ocean.

About the Summit

The Summit is an international gathering encompassing all disciplines within the coastal and estuarine restoration and management communities. RAE and TCS have worked with 200 partnering and supporting organizations to develop the Summit program and welcome more than 1,200 attendees from the restoration and management communities: non-profit and community organizations, Indian Country, academic and research institutions, businesses with an interest in the coast, and agencies from all levels of government. Restoration and management practitioners, citizens and community leaders, consultants, scientists, educators, planners, engineers, students, volunteers, philanthropists, program managers, field staff, contractors, regulators, and others are here for an integrated discussion to explore issues, solutions, and lessons learned in their work.

Summit 2016 App!

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Social Media

Join the Conversation Online: #RAETCS16

We encourage the use of social media throughout the Summit to share insights, promote presentations, highlight ideas, and provide feedback. General updates, breaking news, and reminders will be posted on RAE and TCS social media channels. Like, share, and follow away. Don't forget to stop by the Summit Blue Room to take advantage of the selfie wall and follow the conversation live on our interactive #tagboard.



Facebook:
/RestoreAmericasEstuaries
/TheCoastalSociety



Twitter:
@RAEstuaries
@CoastalSociety



Instagram:
@RAEstuaries
@thecoastalsociety



Snapchat:
RAETCS16

#RAETCS16 Twitter Ambassadors

To ensure that no one misses a minute of the action, our #RAETCS16 Twitter Ambassadors will be providing live reporting on special Summit events, including poster sessions, plenaries, and more. See the full program schedule for covered events and the Ambassadors' Twitter handles.

Student Merit Awards

All students in the program will be eligible for merit awards in the following categories: the Thomas E. Bigford Best Student Paper Award and the Thomas E. Bigford Best Student Poster Award. Congratulations to everyone for their participation and good luck!

2016 Summit Acronyms

BOEM – Bureau of Ocean Energy Management
CPRA – Coastal Restoration and Protection Authority of Louisiana
CZM – coastal zone management
DNR – Department of Natural Resources
EPA – Environmental Protection Agency
FEMA – Federal Emergency Management Agency
GHG – greenhouse gas
GIS – geographic information system
NERR – National Estuarine Research Reserve
NGO – non-governmental organization

NOAA – National Oceanic and Atmospheric Administration
NRCS – Natural Resources Conservation Service
NWR – National Wildlife Refuge
RAE – Restore America's Estuaries
SAV – submerged aquatic vegetation
SLR – sea-level rise
TCS – The Coastal Society
TMDL – Total Maximum Daily Load
USACE – U.S. Army Corps of Engineers
USFWS – U.S. Fish and Wildlife Service
USGS – U.S. Geological Survey



NOAA

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Largest Program to Date: Our Coasts, Our Future, Our Choice

Choose from more than 550 oral presentations in 110 compelling sessions, as well as more than 200 poster presentations! We are at a pivotal moment in how we treat and manage our coastal resources. Climate change, security concerns, economic vitality, and many other forces are causing coastal communities to reevaluate the myriad interconnected interests within the coastal zone. Balancing environmental and socioeconomic goals is an extraordinarily challenging task and one made more complicated by sea-level rise, increasingly strong storms, anthropogenic impacts, and a host of emerging threats. The Summit will highlight where the coastal community and the ecosystems they rely upon have been, where they are now, and how to chart a path into the future. The decisions made today will reverberate throughout future generations, so they must be made with as much knowledge and foresight as possible. The Summit will provide a forum for dynamic, thoughtful, and insightful discussions to shed light on the best paths forward.

Blue Room: In the Bayou

Sponsored by: Restore the Mississippi River Delta and #tagboard

Stop by the Summit **Blue Room Lounge**, a state-of-the-art social media hub and multimedia space featuring a selfie wall, located near the RAE/TCS booth.

At the **Blue Room Interview Studio**, drop in to share your story of impact, exciting discoveries, and bold ideas for the future. Communications professionals are invited to use the interview studio for recorded interviews. So stop in, snap a selfie, tweet your Summit highlights in the lounge, check out what others are saying on our interactive #tagboard, and help amplify the impact of the Summit far beyond the walls of the Hilton.

Science Communications Coffee Breaks

This year, we are proud to debut our Science Communications Coffee Breaks in the **Blue Room Lounge**! Wondering how to use Snapchat or make the most out of your social media brand? Come meet our science communications pros in the Blue Room Lounge during the afternoon coffee breaks to learn more about making science communications work for you.

Make Social Media Work for You: Monday, 3:30 pm - 4:00 pm

Caitlyn McCrary, The Baldwin Group at NOAA Office for Coastal Management; Twitter: @CaitlynMcCrary

The world of social media can be overwhelming to navigate. This conversation will dive into tips and tricks to overcome your apprehension and effectively use social media to share research and information, with the goal of building your professional brand and gaining recognition as an expert in the coastal realm.

A Field Guide for Talking to Reporters: Tuesday, 3:30 pm - 4:00 pm

Jimmy Frederick, Communications Director, Coalition to Restore Coastal Louisiana

This will be an entertaining look at the right way and the wrong way to get your scientific message across to TV, radio, and print journalists. The focus will be on ensuring that the scientific concepts you are trying to explain will be easily understood by the reporter and the general public.

Snap That! How to use Snapchat to Help Protect Our Coasts: Wednesday, 3:00 pm - 3:30 pm

Amanda Leinberger, NOAA Coastal Management Fellow, Puerto Rico CZM, TCS Communications Committee; Twitter: @ajleinberger;

Snapshot: mandaa8996

Join us for a Snapchat tutorial focused on Snapchat 101: What is Snapchat; Why should organizations use Snapchat; What are the benefits of Snapchat for social changes; and How to maintain organizational branding with Snapchat.

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For more information, presenter abstracts, and to create your own personalized schedule of events please visit:

<http://rae-tcs-summit.org/mobile>

Coastal Film Series

In an exciting new addition to the Summit, we've added a documentary film series that examines coastal issues. Curated by Michael Pasquier, a professor at Louisiana State University, these films will have special resonance to attendees. Each tells a different story of coastal challenges and how people and communities are addressing them. All films will be shown in the Newberry Room on the third floor. Please see the Summit app for details on each of the films.

Saving Jamaica Bay: Monday, 11:00 am – 12:30 pm

Return of the River: Monday, 4:00 pm – 5:30 pm

Ocean Frontiers III: Tuesday, 10:30 am - Noon

Shored Up: Tuesday, 2:00 pm – 3:30 pm

Finding Common Ground: Tuesday, 4:00 pm – 5:30 pm

Water Like Stone: Wednesday, 10:30 am - Noon

New Jersey's Hidden Coast: Wednesday, 1:30 pm – 3:00 pm

How to Feel Better & Increase Your Energy – Yoga Offerings at the Summit!

Being good stewards and managers of our coasts can be exhausting work. Keeping yourself in good health is essential! That is why we are proud to offer yoga classes and afternoon mini-breaks to help you maintain – or regain – your equilibrium.

Sponsored by: Alyssa Dausman, YogaWarrior4U

Alyssa Dausman is a Registered Yoga Teacher (RYT-200) with Yoga Alliance and has additional training with Warriors at Ease to teach yoga in military communities. While Alyssa focuses on Gulf restoration as part of her “day job”, she spends her free time teaching yoga to active military on the Mississippi Gulf Coast. Her desire is not only to help restore the Gulf, but also bring the healing power of yoga to men and women who bravely serve this country.

Morning Yoga

Monday - Wednesday, 7:00 am - 7:45 am

Windsor Room

Wake up and feel good! Treat yourself to an energizing morning of breathing, movement, and final relaxation. Get your body moving and your mind ready for a full day!

Afternoon Yoga Mini-Break

Monday - Wednesday during afternoon breaks

Windsor Room

Guided 5-10 minute stretches to refresh and energize

Sitting in a chair all day can be tough on your body. Close your eyes, listen, and be guided with gentle, nourishing stretches to get you ready for the last session and for evening events!

Marc J. Hershman Opening Plenary on Monday

Our Coasts, Our Future, Our Choice: The Gulf of Mexico – Proving Ground for Regional Recovery Strategies

Sponsored by the Walton Family Foundation



The theme of the Summit - Our Coasts, Our Future, Our Choice – will resonate throughout this captivating session on “The Gulf of Mexico – Proving Ground for Regional Recovery Strategies.” NPR national correspondent Debbie Elliott will moderate this timely discussion of how restoration in the Gulf is faring as enormous resources start to pour in, and lessons for the rest of the nation. The expert panel represents science, integrated approaches to resiliency, and community leadership.

Closing Plenary Session on Wednesday

Changing Tides: What the New Congress and Administration Mean for Advancing Coastal Restoration and Management – Ruminations from Dery's Place

The elections changed everything – or did they? A new administration and new political leaders bring new challenges and opportunities for coastal restoration and management. Don't miss this fascinating panel discussion exploring “What the New Congress and Administration Mean for Advancing Coastal Restoration and Management.” The discussion will draw on the experiences of politically astute and experienced leaders in coastal conservation, communications, and climate change policy.

Summit Special Events



Presidents' Opening Reception and Opening of the Restoration and Management Expo

Sunday, 5:30 pm – 7:00 pm

Expo and Poster Hall, Grand Salon

Free for Summit Registrants

Twitter Ambassador: Allison Colden, Senior Manager of External Affairs, Restore America's Estuaries, @colden_here

On behalf of the RAE and TCS Presidents, we invite you to meet new and old friends in the coastal restoration and management community at the Summit's Opening Reception of the Expo. Mingle with Summit attendees and learn about the latest tools, products, and services offered by more than 80 exhibitors from businesses, agencies, academia, and non-profit organizations. Refreshments and cash bar will be available.

The Coastal Society Job Fair

Monday, 12:30 pm – 2:00 pm

Grand Ballroom D

Fee \$10 / lunch not included

Please join us to meet and interview job seekers from across the country. Hosted by The Coastal Society (TCS), the Job Fair will provide employers who have currently open positions or positions opening within a short time frame to meet prospective candidates, accept resumes (officially or unofficially), and hold interviews if they wish. Potential employers will be able to meet job seekers from a variety of sectors including marine and coastal research, planning, conservation, education, communicators, and specialists from other coastal sectors. Potential employers will each be provided a table with space to meet with job seekers individually. To provide an additional service for job seekers, TCS will host a resume building and review table.

Poster Session Happy Hour

Monday, 5:30 pm – 7:30 pm

Expo and Poster Hall, Grand Salon

Free for Summit Registrants / Sponsored by Environmental Services, Inc.

Twitter Ambassador: Lee Yokel, Coordinator, Gulf of Mexico Alliance, @GoMAlliance

View posters and speak with poster presenters as you explore hundreds of new ideas, case studies, and promising research on display in the Expo and Poster Hall. The Happy Hour is a great way to meet and chat with poster presenters and discover the latest ideas in science, policy, and management. Light appetizers and a cash bar will be provided.

Effective Monitoring to Evaluate Restoration in the Gulf of Mexico: Brown Bag Discussion

Tuesday, 12:30 pm – 1:30 pm

Grand Ballroom B

Free for Summit Registrants; No registration required; light refreshments will be available

Hosted by the National Academies of Sciences, Engineering, and Medicine

Moderator:

Don Boesch, President, University of Maryland Center for Environmental Science

Panelists:

Susan Adamowicz, Coastal Biologist, US Fish and Wildlife Service Land Management Research Demonstration

David Burdick, Research Associate Professor of Coastal Ecology and Restoration, University of New Hampshire

Mark Woodrey, Coastal Ecologist, Coastal Research and Extension Center, Mississippi State University

A tremendous number of restoration projects are planned and underway in the Gulf of Mexico to help mitigate damage done by the 2010 Macondo Well Deepwater Horizon oil spill. In order to ensure that restoration goals are met, restoration monitoring and evaluation should be an integral part of those projects. However, attempts to evaluate efficacy of past restoration efforts have shown that monitoring is often inadequate, or even absent. A recent report by the National Academies of Sciences, Engineering, and Medicine explains the value of monitoring restoration activities and lays out essential elements for effective monitoring. This brownbag session will cover the key recommendations from the Academies' report "Effective Monitoring to Evaluate Ecological Restoration in the Gulf of Mexico" and include a panel discussion among several of the committee members and restoration experts. There will be an opportunity to take questions from the audience.

Coastal Networking Reception

Tuesday, 6:00 pm – 9:00 pm

The Beach and Bourbon Cowboy located at 227 Bourbon Street in the French Quarter

Free for Summit Registrants / Guest Tickets \$40

Twitter Ambassador: Heidi Nutters, Environmental Planner, San Francisco Estuary Partnership, @sfestuary

Only a short walk from the Summit hotel, the Coastal Networking Event at The Beach Courtyard is not to be missed! Just two blocks into the French Quarter from Canal Street, The Beach's carriage way entrance leads to a lush tropical, air conditioned, brick courtyard complete with a flaming fountain. We have reserved the entire venue, as well as the Bourbon Cowboy right next door, for Summit attendees to enjoy live music, dancing, access to a balcony to take in the sights of the French Quarter, as well as superb New Orleans food, and of course fabulous networking! Be sure to bring your Summit name badge for faster entry.



NOAA's Restoration Center: Celebrating 25 Years of Habitat Restoration

The NOAA Restoration Center was established in 1991 in the wake of the Exxon Valdez oil spill. Since then, we've worked with partners to complete more than 3,300 projects, restoring coastal habitat—like rivers, wetlands, and coral reefs—to help boost fish populations.

Come by booth #400 to learn more about how NOAA restores habitat!

@NOAAHabitat

#Restore25

habitat.noaa.gov/restore25/

Summit Schedule



Saturday, December 10, 2016

Location

8:00 am – 5:00 pm Community Service Project: Tree Planting in the Caernarvon Delta Depart from Hilton Riverside Hotel

Sponsored by:



Dewberry

Scotts Miracle-Gro

Sunday, December 11, 2016

Location

8:00 am – 4:00 pm Field Sessions Depart from Hilton Riverside Hotel

10:00 am - Noon The Coastal Society Annual Business Meeting St. James Ballroom

1:00 pm – 5:00 pm Careers on the Coast – Tips, Tricks, and Industry Insights St. James Ballroom

1:00 pm – 5:00 pm Community Resilience Building Training Workshop Camp Room

1:00 pm – 6:30 pm Registration Open First Level

2:00 pm - 3:00 pm Recognizing Shared Priorities: A National Ocean Service Whiteboard Session Jackson Room

5:30 pm – 7:00 pm Presidents' Opening Reception and Opening of the 8th National Restoration and Management Expo Expo & Poster Hall

Monday, December 12, 2016

Location

7:00 am – 6:30 pm Registration Open First Level

7:00 am – 7:45 am Morning Yoga Windsor Room

7:30 am – 8:15 am Continental Breakfast Expo & Poster Hall

8:30 am – 10:30 am Welcome and Marc J. Hershman Opening Plenary Grand Ballroom B

Sponsored by: **WALTON FAMILY FOUNDATION**

10:30 am – 11:00 am Morning Coffee Break Expo & Poster Hall

11:00 am – 12:30 pm Concurrent Sessions 1

12:30 pm - 2:00 pm Lunch on your own

12:30 pm – 2:00 pm The Coastal Society Job Fair Grand Ballroom D

2:00 pm – 3:30 pm Concurrent Sessions 2

3:30 pm – 4:00 pm Afternoon Coffee Break and Refreshments Expo & Poster Hall

3:30 pm – 4:00 pm Science Comm. Coffee Break: *Make Social Media Work for You* Blue Room Lounge in Expo Hall

3:40 pm – 3:50 pm Afternoon Yoga Mini-Break Windsor Room

4:00 pm – 5:30 pm Concurrent Sessions 3

5:30 pm – 7:30 pm Poster Session Happy Hour Expo & Poster Hall

Sponsored by: **ENVIRONMENTAL SERVICES, INC.**
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Summit Schedule



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Tuesday, December 13, 2016		Location
7:30 am – 6:00 pm	Registration Open	First Level
7:00 am – 7:45 am	Morning Yoga	Windsor Room
7:30 am – 8:15 am	Continental Breakfast	Expo & Poster Hall
8:30 am – 10:00 am	Concurrent Session 4	
10:00 am – 10:30 am	Morning Coffee Break	Expo & Poster Hall
10:30 am – Noon	Concurrent Sessions 5	
Noon – 2:00 pm	Lunch on your own	
12:30 pm – 1:30 pm	Brown-Bag Lunch Session: Effective Monitoring to Evaluate Restoration in the Gulf of Mexico	Grand Ballroom B
2:00 pm – 3:30 pm	Concurrent Sessions 6	
3:30 pm – 4:00 pm	Afternoon Coffee Break and Refreshments	Expo & Poster Hall
3:30 pm – 4:00 pm	Science Comm. Coffee Break: <i>A Field Guide for Talking to Reporters</i>	Blue Room Lounge in Expo Hall
3:40 pm – 3:50 pm	Afternoon Yoga Mini-Break	Windsor Room
4:00 pm – 5:30 pm	Concurrent Sessions 7	
6:00 pm – 9:00 pm	Coastal Networking Reception	The Beach and Bourbon Cowboy
Wednesday, December 14, 2016		Location
7:30 am – 5:00 pm	Registration Open	First Level
7:00 am – 7:45 am	Morning Yoga	Windsor Room
7:30 am – 8:15 am	Continental Breakfast	Expo & Poster Hall
8:30 am – 10:00 am	Concurrent Sessions 8	
10:00 am – 10:30 am	Morning Coffee Break	Expo & Poster Hall
10:30 am – Noon	Concurrent Sessions 9	
Noon – 1:30 pm	Lunch on your own	
1:30 pm – 3:00 pm	Concurrent Sessions 10	
3:00 pm – 3:30 pm	Afternoon Coffee Break and Refreshments	Expo & Poster Hall
3:00 pm – 3:30 pm	Science Comm. Coffee Break: <i>Snap That! How to Use Snapchat to Protect Our Coasts</i>	Blue Room Lounge in Expo Hall
3:10 pm – 3:20 pm	Afternoon Yoga Mini-Break	Windsor Room
3:30 pm – 5:00 pm	Closing Plenary	Grand Ballroom B
Thursday, December 15, 2016		Location
8:30 am – 3:00 pm	Living Shorelines Workshop	Jefferson Ballroom
8:30 am – 4:30 pm	Application of Quality Assurance and Quality Control Principles to Ecological Restoration Workshop	Commerce Room
8:30 am – 4:30 pm	Managing Invasive Species in Coastal Wetland Restoration Projects: A Participatory Workshop to Identify Trends, Innovative Approaches, and Research Needs	Magazine Room
9:00 am – Noon	Sea Level Rise and Coastal Flood Web Tools Workshop	Canal Room



**Habitat Protection
Reaches Milestone**

ESSENTIAL FISH HABITAT

Join us & celebrate

20 years of EFH

Monday, December 12

2:00 - 5:30 pm



**NOAA
FISHERIES**

Symposium

Bridging the Gap:

*Communicating Fishery
Management Needs to
Habitat Scientists*

&

Reception

With refreshments

*Sponsored by:
American Fisheries
Society's Fish Habitat Section*



Connect: @NOAAHabitat #EFH20

Click: habitat.noaa.gov/efh20

Facility Map

Hilton New Orleans Riverside

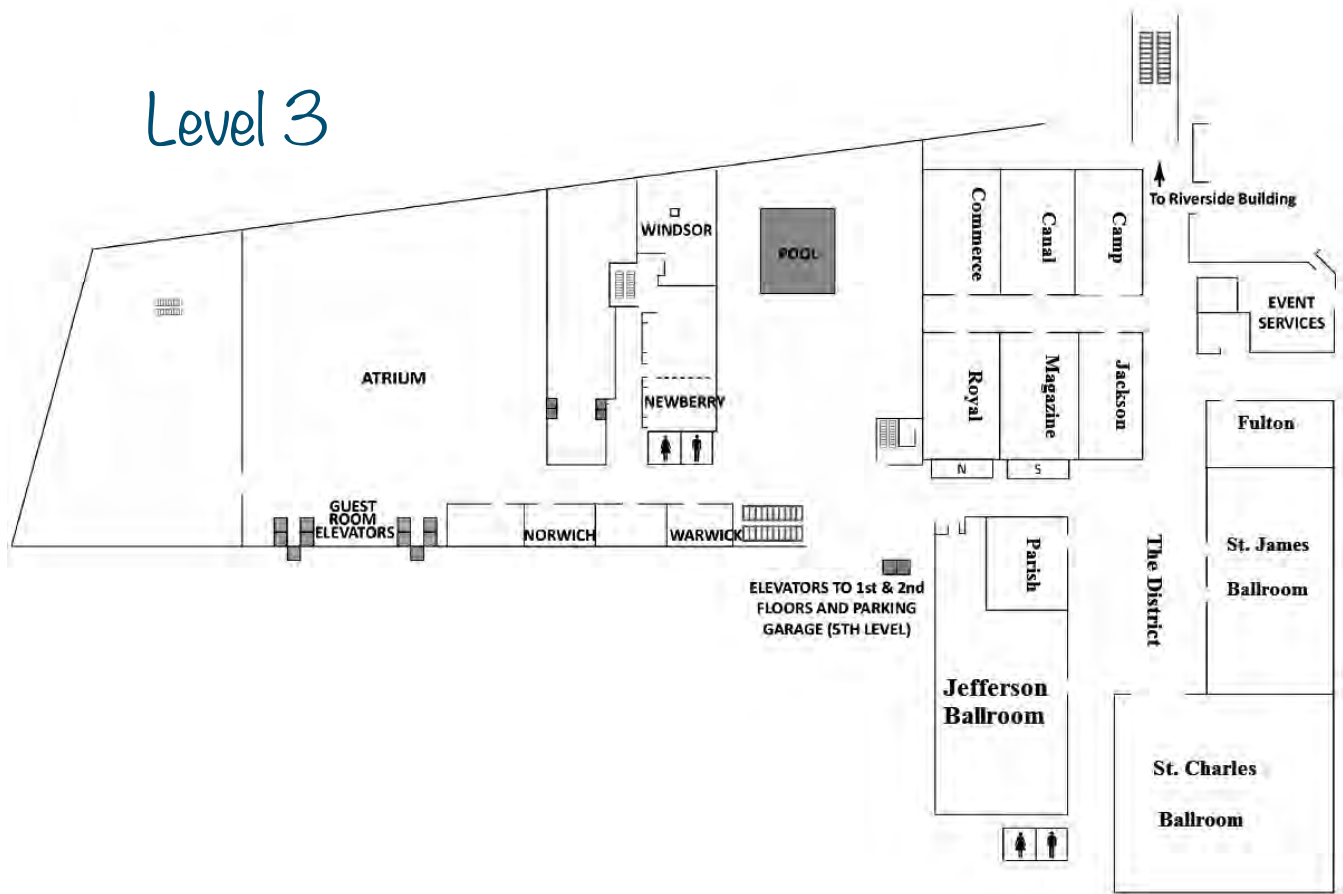


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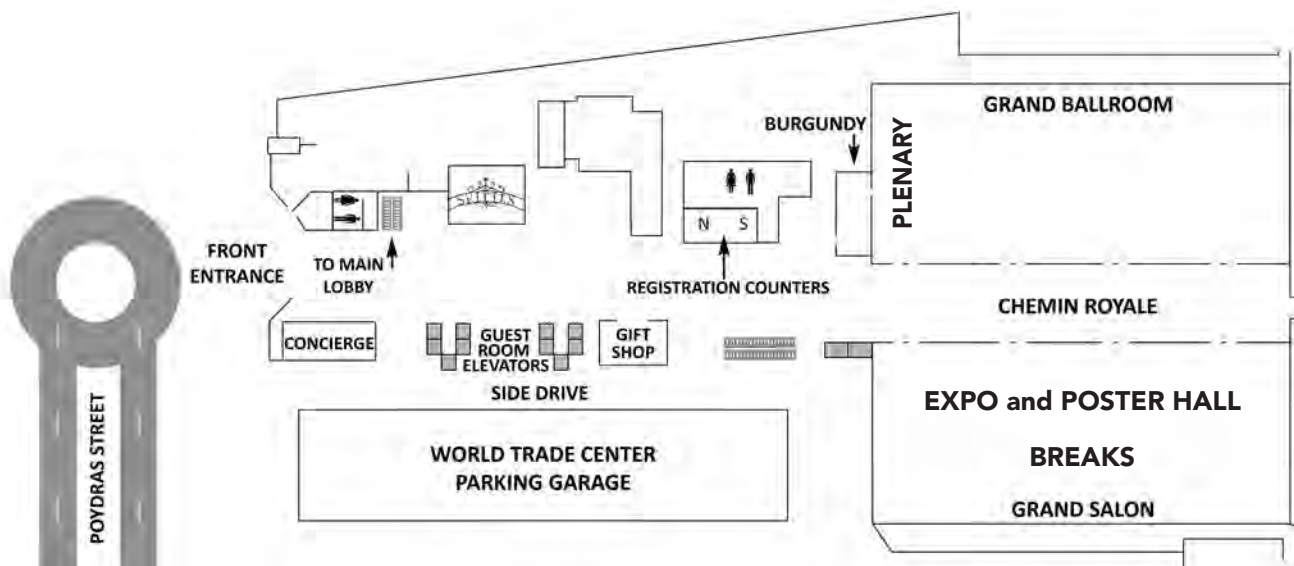


THE
COASTAL
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Level 3



Level 1



Expo & Poster Hall

Welcome to the Hub of the Summit!



Restoration and Management Expo

Please join us for the Presidents' Opening Reception and the Opening of the Restoration and Management Expo on

Sunday, 5:30 pm – 7:00 pm

Twitter Ambassador: Allison Colden, Senior Manager of External Affairs, Restore America's Estuaries, @colden_here

With more than 80 exhibitors, the Expo provides direct access to the essential products, services, people, and programs for your restoration efforts. This dynamic and award-winning Expo Hall features ideas and services for all aspects of coastal and estuarine restoration and management – including planning and design, construction and management, funding and outreach, and monitoring and evaluation. Exhibitors include leading businesses, agencies, NGOs, academic and research institutions, and others who are showcasing their merchandise and expertise. The Expo is the perfect place to find new partners and talk with experts about your projects and the services they have to offer. Refreshments and cash bar will be available.

Blue Room: In the Bayou

Sponsored by:



#tagboard

Stop by the Summit **Blue Room Lounge**, a state-of-the-art social media hub and multimedia space featuring a social media lounge and selfie wall, located near the RAE/TCS booth.

At the **Blue Room Interview Studio**, drop in to share your story of impact, exciting discoveries, and bold ideas for the future. Communications professionals are invited to use the interview studio for recorded interviews. So stop in, snap a selfie, tweet your Summit highlights in the lounge, check out what others are saying on our interactive #tagboard, and help amplify the impact of the Summit far beyond the walls of the Hilton.

Poster Hall

Sponsored by:



Hundreds of new ideas, case studies, and research results are displayed in the Poster Hall. A comprehensive array of results, lessons learned, and field techniques will be presented by individuals from businesses, community organizations, universities, and government agencies. Posters are displayed in the following categories: Outreach, Education, and Engagement (OEE); Policy, Planning, and Funday (PPF); and Science, Technology, and Practice (STP).

Poster Happy Hour

Sponsored by:



Enjoy a special opportunity to meet the poster presenters during our ever-popular Poster Happy Hour. This is a great chance to peruse the more than 200 posters and talk with the poster presenters during our special **Poster Session Happy Hour:**

Monday, 5:30 pm – 7:30 pm

Twitter Ambassador: Lee Yokel, Coordinator, Gulf of Mexico Alliance, @GoMAlliance

Summit 2016 App

For more information, presenter abstracts, and to create your own personalized schedule of events please visit:

<http://rae-tcs-summit.org/mobile>



United States
Department of
Agriculture

Natural Resources Conservation Service

NRCS works with
private landowners
and cooperating
partners to protect
and restore
America's coastal
wetlands.



www.nrcs.usda.gov

USDA is an equal opportunity provider, employer and lender.

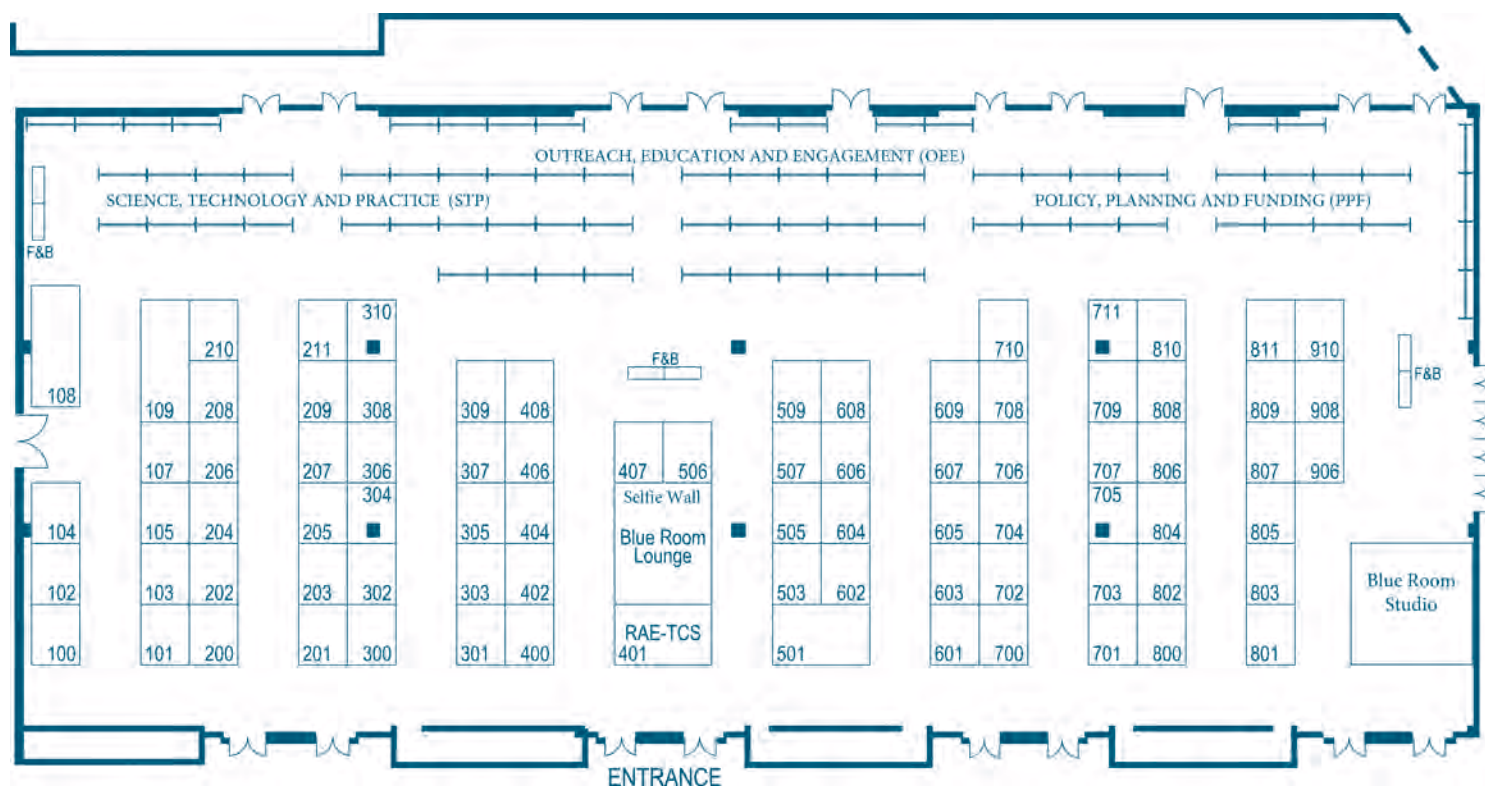
Expo & Poster Hall Floor Plan



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Exhibitor List

Listed by Booth Number



RESTORE
AMERICA'S
ESTUARIES



THE
COASTAL
SOCIETY

Booth Company/Organization

100	YSI, a Xylem Brand
101	ALS Oil and Gas – Reservoir Laboratories
102	Seafood Health Facts
103	Tampa Bay Estuary Program
104	OTT Hydromet
105	Alabama Coastal Foundation
107	LightHawk/SouthWings
108/109	Marian Brister Martinez
200	Gulf of Mexico Alliance
201	Environmental Services, Inc.
202	EA Engineering Science and Technology, Inc., PBC
203	Eureka Water Probes
204	Moffatt & Nichol
205	Golden Bear Services
206	Streamside Technology, Inc.
207	Living Shoreline Solutions, Inc.
208	Filtrexx International
209	Klein Marine Systems, Inc.
210	Reef Ball Foundation / Reef Innovations
211	Earth Resources Technology
300	HDR
301	CDM Smith
302	Ocean Conservancy
303	Battelle
304	Propeller: A Force for Social Innovation
305	The Water Institute of the Gulf
306	Environmental Science Associates
307	Taylor & Francis Group
308	National Wildlife Federation
309	National Parks Conservation Association
310	U.S. Geological Survey
400	National Oceanic and Atmospheric Administration
401	Restore America's Estuaries
401	The Coastal Society
402	U.S. Fish and Wildlife Service – Coastal Program
404	MWH, now part of Stantec
406	Louisiana State University / Louisiana Sea Grant
407	Coastal & Estuarine Research Federation
408	USDA Natural Resources Conservation Service
501	Coalition to Restore Coastal Louisiana
503	U.S. Environmental Protection Agency
505	The Nature Conservancy
506	Coastal States Organization

Booth Company/Organization

507	Bureau of Ocean Energy Management
509	The Mosaic Company
601	Coastal Wetlands Planning, Protection, and Restoration Act
602	Restore the Mississippi River Delta
603	Barataria-Terrebonne National Estuary Program
604	Audubon Louisiana
605	Association of National Estuary Programs
606	S&ME, Inc.
607	Chesapeake Bay Program
608	Tetra Tech
609	Dynamic Solutions, LLC
700	American Littoral Society
701	Chesapeake Bay Foundation
702	EarthCorps
703	Galveston Bay Foundation
704	North Carolina Coastal Federation
705	Resource Environmental Solutions
706	Save The Bay – San Francisco Bay
707	Save The Bay – Narragansett Bay
708	Save the Sound – a program of Connecticut Fund for the Environment
709	Tampa Bay Watch
710	Woods Hole Group
711	Planet Love Life, Inc.
800	Tulane Institute on Water Resources Law and Policy
801	Scheda Ecological Associates
802	Natural Resources Conservation Service – North Carolina
803	Fuss & O'Neill, Inc.
804	Storm Water Systems, Inc.
805	Lake Pontchartrain Basin Foundation
806	DHI Water & Environment
807	JESCO Environmental & Geotechnical Services, Inc.
808	Living Blanket, LLC
809	American Shore and Beach Preservation Association
810	Gulf of Mexico Research Initiative
811	AECOM
906	Ecology and Environment, Inc.
908	Taylor Engineering, Inc.
910	Ducks Unlimited



- **National Estuary Program** - leading the network of 28 estuaries designated by EPA as Estuaries of National Significance under the Clean Water Act/Section 320
 - **Climate Ready Estuaries** – addressing climate change in coastal areas
 - **Coastal Wetlands Initiative** – working to reduce the loss of wetlands in coastal watershed
 - **Green Infrastructure** - cost-effective, resilient approach to managing wet weather/stormwater impacts that improves communities today and into the future
-
- National Estuary Program <https://www.epa.gov/nep>
 - Climate Ready Estuaries <https://www.epa.gov/cre>
 - Coastal Wetlands Initiative <https://www.epa.gov/wetlands/coastal-wetlands>
 - Green Infrastructure for Climate Resiliency <https://www.epa.gov/green-infrastructure>



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Alphabetical by Company/Organization



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AECOM

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Contact: Michael Donohue

248.204.4953

michael.donohue@aecom.com

www.aecom.com

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Alabama Coastal Foundation

Booth # 105

Contact: Mark Berte

251.990.6002

mberte@joinACF.org

www.joinACF.org

Improving and protecting Alabama's coastal environment through cooperation, education and participation.

ALS Oil and Gas – Reservoir Laboratories

Booth # 101

Contact: Maria A. Lorente Alonso

713.955.8082

maria.antonietta@alsglobal.com

www.aslglobal.com

Among world's largest most diversified testing laboratory: Life Sciences-Minerals-Energy-Industrial

American Littoral Society

Booth # 700

Contact: Al Modjeski

732.291.0055

alek@littoralsociety.org

www.littoralsociety.org

The American Littoral Society protects the coast through education, conservation and advocacy.

American Shore and Beach Preservation Association

Booth # 809

Contact: Derek Brockbank

202.827.4246

derek.brockbank@asbpa.org

www.asbpa.org

ASBPA merges science and policy to advocate for healthy coastlines.

Association of National Estuary Programs

Booth # 605

Contact: Lisa Phipps

503.322.2222

lhipps@tnep.org

www.nationalestuaries.org

Dedicated to supporting NEPs in preserving and restoring our nation's bays and estuaries

Audubon Louisiana

Booth # 604

Contact: Lauren Bourg

225.776.9838

lbourg@audubon.org

www.la.audubon.org

Integrating science, education & policy, our mission is to conserve and restore natural ecosystems, focusing on birds, other wildlife, and their habitats for the benefit of humanity and the earth's biological diversity.

Barataria-Terrebonne National Estuary Program (BTNEP)

Booth # 603

Contact: Nicole Babin

985.447.0868

Nicole@btnep.org

www.btnep.org

We are a partnership for the preservation, protection, and restoration of the Barataria-Terrebonne National Estuary in southeast Louisiana.

Battelle

Booth # 303

Contact: Mark Curran

800.201.2011

solutions@battelle.org

www.battelle.org

Battelle coastal scientists develop integrated plans that promote sustainable growth.

Bureau of Ocean Energy Management

Booth # 507

Contact: Debra Vigil

504.736.2406

debra.vigil@boem.gov

www.boem.gov

Manage development of U.S. Outer Continental Shelf energy and mineral resources.

CDM Smith

Booth # 301

Contact: Timothy Feather

618.303.2325

feathertd@cdmsmith.com

www.cdmsmith.com

Full service planning, engineering, and construction firm specializing in resilient coastal infrastructure.

Chesapeake Bay Foundation

Booth # 701

Contact: Kim Coble

443.482.2018

kcoble@cbf.org

www.cbf.org

The Chesapeake Bay Foundation (CBF) is dedicated to saving the Chesapeake Bay through advocacy, education and restoration.

Chesapeake Bay Program

Booth # 607

Contact: Rachel Felter

410.267.5740

rfelter@chesapeakebay.net

www.chesapeakebay.net

A partnership of federal, state and local governments, non-profits and academia that lead the restoration/protection of the Chesapeake Bay.

Coalition to Restore Coastal Louisiana

Booth # 501

Contact: Drew Ramsey

504.264.6252

andrewr@crcl.org

www.crcl.org

CRCL is dedicated to driving bold science-based action to rebuild Coastal Louisiana.

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Coastal & Estuarine Research Federation

Booth # 407

Contact: Susan Park

206.209.5262

info@erf.org

www.erf.org

CERF is a scientific society dedicated to advancing the understanding and wise stewardship of estuarine and coastal ecosystems worldwide.

Coastal States Organization

Booth # 506

Contact: Mary Munson

202.508.3860

cso@coastalstates.org

www.coastalstates.org

CSO represents Coastal States and Territories on ocean and coastal resource issues.

Coastal Wetlands Planning, Protection, and Restoration Act

Booth # 601

Contact: Scott Wilson

337.266.8644

wilsons@usgs.gov

www.lacoast.gov

Restoring coastal Louisiana since 1990.

DHI Water & Environment

Booth # 806

Contact: Mikkel Andersen

201.253.7042

mia@dhigroup.com

www.dhigroup.com

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Ducks Unlimited

Booth # 910

Contact: Scott Yaich

601.956.1936

syaich@ducks.org

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Dynamic Solutions, LLC

Booth # 609

Contact: Christopher Wallen

865.212.3331

cmwallen@dsllc.com

www.dsllc.com

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EA Engineering Science and Technology, Inc., PBC

Booth # 202

Contact: Melissa Smith

410.329.5116

masmith@eaest.com

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Earth Resources Technology (ERT)

Booth # 211

Contact: Anthony Maranto

301.323.1456

anthony.maranto@ertcorp.com

www.ertcorp.com

A woman-owned company specializing in IT, science and environmental clean-up services.

EarthCorps

Booth # 702

Contact: Steve Dubiel

206.730.3794

steve@earthcorps.org

www.earthcorps.org

EarthCorps provides ecological restoration services in Puget Sound watersheds.

Ecology and Environment, Inc.

Booth # 906

Contact: Cheryl Ferrell

716.684.8060 x2101

CFerrell@ene.com

www.ene.com

Ecology and Environment, Inc. (E & E) is a recognized global leader in environmental management.

Environmental Science Associates

Booth # 306

Contact: Brett Jackson

206.576.3778

bjackson@esassoc.com

www.esassoc.com

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Environmental Services, Inc.

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Contact: Courtney Taylor

904.470.2200

kfitzsimmons@esinc.cc

www.esinc.cc

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ckirk@waterprobes.com

www.waterprobes.com

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Contact: Rod Tyler

330.350.1706

rodt@filtrex.com

www.filtrex.com

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Contact: Dean Audet

800.286.2469

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www.fando.com

Fuss & O'Neill delivers a comprehensive suite of engineering, scientific, planning, and design services.

Galveston Bay Foundation

Booth # 703

Contact: Courtney Smith

281.332.3381 x214

csmith@galvbay.org

www.galvbay.org

The Galveston Bay Foundation preserves and enhances Galveston Bay as a healthy and productive place for generations to come.

Golden Bear Services

Booth # 205

Contact: William Hartley

626.347.7870

whartley59@yahoo.com

Gulf of Mexico Alliance

Booth # 200

Contact: Laura Bowie

228.215.0000

Laura.Bowie@gomxa.org

www.gulfofmexicoalliance.org

GOMA is a network of Gulf partners working to address issues of common concern.

Gulf of Mexico Research Initiative

Booth # 810

Contact: March Moore

202.448.1250

mmoore@oceanleadership.org

www.oceanleadership.org

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JESCO Environmental & Geotechnical Services, Inc.

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337.329.0735

lteal@jesous.com

www.jesous.com

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Booth # 209

Contact: Straud Armstrong

603.893.6131

Straud.Armstrong@KleinMarineSystems.com

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Lake Pontchartrain Basin Foundation

Booth # 805

Contact: John Lopez

504. 421.7348

jlopez@saveourlake.org

www.saveourlake.org

Lake Pontchartrain Basin Foundation is a regional environmental organization in SE Louisiana.

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LightHawk/SouthWings

Booth # 107

Contact: Meredith Dowling

828.225.5949

meredith@southwings.org

www.southwings.org

Environment-focused volunteer pilot network serving the Southeastern US.

Living Blanket, LLC

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Contact: Chris Cannon

504.432.7004

chris@livingblanket.com

LivingBlanket.com

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Living Shoreline Solutions, Inc.

Booth # 207

Contact: Thomas J. Brown

352.588.5263

TBrown@LivingShorelineSolutions.com

www.livingshorelinesolutions.com

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Louisiana State University / Louisiana Sea Grant

Booth # 406

Contact: Robert Twilley

225.578.6710

judyjohnson@lsu.edu

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Marian Brister Martinez

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Contact: Marian Martinez

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MWH, now part of Stantec

Booth # 404

Contact: Steve Mathies

504.654.1727

steve.mathies@stantec.com

www.stantec.com

MWH/Stanec is a global architecture, engineering and environmental firm.

National Oceanic and Atmospheric Administration

Booth # 400

Contact: Carli Bertrand

301.427.8663

carli.bertrand@noaa.gov

www.noaa.gov

Science, Service, Stewardship

National Parks Conservation Association

Booth # 309

Contact: Chad Lord

202.454.3385

clord@npca.org

www.npca.org

Non-partisan advocacy group that strengthens and protects America's national parks.

National Wildlife Federation

Booth # 308

Contact: Amanda Fuller

512.610.7773

fullera@nwf.org

www.nwf.org

Uniting all Americans to ensure wildlife thrive in a rapidly changing world.

Natural Resources Conservation Service – North Carolina

Booth # 802

Contact: Alaina Bloodworth

919.873.2138

alaina.bloodworth@nc.usda.gov

www.nrcs.usda.gov/wps/portal/nrcs/

site/nc/home

"Helping People Help the Land"

North Carolina Coastal Federation

Booth # 704

Contact: Todd Miller

252.473.1607

toddm@nccoast.org

www.nccoast.org

Livingshoreslinesacademy.org is a national web based Living Shorelines clearing house.



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CWPPRA.wordpress.com



COASTAL WETLANDS PLANNING,
PROTECTION, AND RESTORATION ACT
RESTORING COASTAL LOUISIANA SINCE 1990



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Ocean Conservancy

Booth # 302

Contact: Rachel Guillory

504.208.5816

rguillory@oceanconservancy.org

www.oceanconservancy.org

Restoring the Gulf from the coast to the deep sea.

OTT Hydromet

Booth # 104

Contact: Christina Erickson

970.988.7502

cerickson@frtradeshows.com

www.otthydromet.com

OTT Hydromet, a member of Hach Company, helps water resource professionals generate reliable data throughout the entire water cycle.

Planet Love Life, Inc.

Booth # 711

Contact: Rob Webster

813.494.3391

info@planetlovelife.com

www.PlanetLoveLife.com

Organization promoting marine debris awareness by creating bracelets made from recycled fishing nets.

Propeller: A Force for Social Innovation

Booth # 304

Contact: Allison DeJong

504.475.4388

adejong@gopropeller.org

www.gopropeller.org

Propeller drives social, environmental, and economic impact by incubating ventures in New Orleans' critical areas of food, health, education, and water.

Reef Ball Foundation / Reef Innovations

Booth # 210

Contact: Jim McFarlane

941.330.0501

mcfarlane@alumni.ufl.edu

www.reefinnovations.com

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Resource Environmental Solutions

Booth # 705

Contact: Frank Cuccio

337.288.1497

fcuccio@res.us

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Restore America's Estuaries

Booth # 401

Contact: Jeffrey Benoit

703.524.0248

jbenoit@estuaries.org

www.estuaries.org

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Restore the Mississippi River Delta

Booth # 602

Contact: Jacques Hebert

504.264.6849

jhebert@audubon.org

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Restoring the delta to protect people, wildlife and jobs.

S&ME, Inc.

Booth # 606

Contact: Jerry Hauske

337.408.3103

smarcel@smeinc.com

www.smeinc.com

Environmental and Engineering Services for Gulf Coast Restoration.

Save The Bay – Narragansett Bay

Booth # 707

Contact: Jonathan Stone

401.272.3540

jstone@savebay.org

www.savebay.org

Save The Bay protects and improves Narragansett Bay through advocacy, education and habitat restoration.

Save The Bay – San Francisco Bay

Booth # 706

Contact: Jessie Olson

847.224.4261

jolson@savesfbay.org

www.savesfbay.org

Restoring San Francisco Bay in the era of climate change.

Save the Sound – a program of Connecticut Fund for the Environment

Booth # 708

Contact: Gwen Macdonald

203.787.0646 x111

gmacdonald@savethesound.org

www.savethesound.org

Protecting the Land, Air and Water of Connecticut and Long Island Sound.

Scheda Ecological Associates

Booth # 801

Contact: Sandy Scheda

813.989.9600

sscheda@scheda.com

www.scheda.com

Scheda is a WOSBP (8M) firm that specializes in coastal ecosystem restoration.

Seafood Health Facts

Booth # 102

Contact: John Ewart

302.381.0578

ewart@udel.edu

www.seafoodhealthfacts.org

Balancing the Benefits and Risks of Seafood Consumption.

Storm Water Systems, Inc.

Booth # 804

Contact: Gary Hopkins

706.348.8201 x226

ghopkins@stormwatersystems.com

www.stormwatersystems.com

Trash trap technologies for keeping trash from estuaries and oceans.

Streamside Technology, Inc.

Booth # 206

Contact: Randall Tucker

419.348.5167

rltucker@streamside.us

www.streamside.us

Manufacturers of Sediment Collectors used for Sediment Management.

Tampa Bay Estuary Program

Booth # 103

Contact: Gary Raulerson

727.893.2765

graulerson@tbep.org

www.tbep.org

A science-based community partnership for a healthy Tampa Bay.

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Tampa Bay Watch

Booth # 709

Contact: Serra Herndon

727.867.8166

sherndon@tampabaywatch.org

www.tampabaywatch.org

A non-profit dedicated to habitat restoration and environmental education in Tampa Bay.

Taylor & Francis Group

Booth # 307

Contact: Kayla Daniel

215.625.8900

kayla.daniel@taylorandfrancis.com

taylorandfrancis.com

Taylor & Francis is a leading global academic publishing company.

Taylor Engineering, Inc.

Booth # 908

Contact: Carla Cannon

904.731.7040

ccannon@taylorengeering.com

www.taylorengeering.com

Providing leading-edge solutions for water-related engineering, environmental, and planning challenges.

Tetra Tech

Booth # 608

Contact: Erin Hague

561.735.0482 x232

erin.hague@tetrattech.com

www.tetrattech.com

Comprehensive engineering and environmental design and implementation for coastal projects.

The Coastal Society

Booth # 401

Contact: Judy Tucker

757.565.0999

Coastalsoc@aol.com

www.thecoastalsociety.org

Fostering dialogue, forging partnerships, and promoting communication and education around coastal issues since 1975.

The Mosaic Company

Booth # 509

Contact: Adam Herges

612.760.6556

adam.herges@mosaicco.com

www.mosaicco.com

The Mosaic Company is the world's leading producer and marketer of concentrated phosphate and potash.

The Nature Conservancy

Booth # 505

Contact: Boze Hancock

401.874.6121

bhancock@tnc.org

www.nature.org

TNC: Working to conserve the lands and waters on which all life depends.

The Water Institute of the Gulf

Booth # 305

Contact: Amy Wold

225.227.2723

mlegendre@thewaterinstitute.org

www.thewaterinstitute.org

Research and technical services for sustainable coasts and water systems.

Tulane Institute on Water Resources

Law and Policy

Booth # 800

Contact: Mark Davis

504.865.5982

msdavis@tulane.edu

www.tulanewater.org

Public service institute finding harmony among people, science and law.

U.S. Environmental Protection Agency

Booth # 503

Contact: Myra Price

202.566.1225

price.myra@epa.gov

www.epa.gov

EPA: Our mission is to protect human health and the environment.

U.S. Fish and Wildlife Service - Coastal Program

Booth # 402

Contact: Chris Darnell

703.358.2583

Chris_Darnell@fws.gov

www.fws.gov

The USFWS Coastal Program supports voluntary habitat conservation by working with partners to provide technical and financial assistance to projects.

U.S. Geological Survey

Booth # 310

Contact: Lianne Ball

703.648.4028

lball@usgs.gov

www.usgs.gov

Making smart decisions about a changing world? Start with science.

USDA Natural Resources Conservation Service

Booth # 408

Contact: Britt Paul

318.473.7756

britt.paul@la.usda.gov

www.nrcs.usda.gov

"Helping People Help the Land"

Woods Hole Group

Booth # 710

Contact: Catherine Morey

508.495.6212

cmorey@whgrp.com

www.whgrp.com

Applied Ecology & Sustainability; Coastal Sciences, Engineering & Planning; and Oceanography & Measurement Systems.

YSI, a Xylem Brand

Booth # 100

Contact: Lisa Landry

937-767-7241

environmental@ysi.com

www.ysi.com

Xylem provides monitoring solutions to better understand our water resources.

Summit Details



Saturday

Community Service Project

Thank You for Helping to Restore the Caernarvon Delta!

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Restore America's Estuaries, The Coastal Society, the Coalition to Restore Coastal Louisiana, Dewberry, and the Scotts Miracle-Gro Company worked with Summit attendees to plant native trees in the Caernarvon Diversion outfall. By planting in this area of new land, we helped increase soil retention and promote more land growth! These efforts will also help increase storm surge retention and increase forest resiliency for future storm events.

Sunday

Field Sessions

1. Pontoon Boat Tour of Manchac Swamp and Surrounding Marshes of Pass Manchac

8:00 am – 1:30 pm

Hosted by: Southeastern Louisiana University

2. Educational Tour of Fourchon Ridge Restoration Project and Tree Planting

8:00 am – 4:00 pm

Hosted by: Barataria-Terrebonne National Estuary Program

3. Woodlands Trail Bottomland Hardwood Forest Interpretive Hikes and Bird Banding Project Review

8:30 am – 2:00 pm

Hosted by: Woodlands Conservancy and Barataria-Terrebonne National Estuary Program

4. Oyster Shell Recycling and Restoration Tour

8:00 am – 2:00 pm

Hosted by: Coalition to Restore Coastal Louisiana

5. Boat Tour of Floating Marshes and Tour of the Bayou Coquille Trail of Jean Lafitte National Park and Preserve

9:00 am – 3:30 pm

Hosted by: National Park Service

6. Conversation with Pulitzer Prize Winning Environmental Journalist Bob Marshall and Motorboat Tour of Plaquemines Parish Wetlands

8:00 am – 3:00 pm

Hosted by: Louisiana Lost Lands Environmental Tours

7. Conversation with Pulitzer Prize Winning Environmental Journalist Bob Marshall and Educational Kayak Tour of a Cypress Tupelo Swamp

8:00 am – 3:00 pm

Hosted by: Louisiana Lost Lands Environmental Tours

Summit 2016 App

For more information, presenter abstracts, and to create your own personalized schedule of events please visit:

<http://rae-tcs-summit.org/mobile>

Summit Details

Sunday Workshops, Trainings, & Meetings



The Coastal Society Annual Business Meeting

St. James Ballroom

10:00 am - Noon

Free for Summit Registrants, Breakfast served

Please join The Coastal Society's Board of Directors for the 2016 Annual Business Meeting of The Coastal Society. TCS members and those interested in joining TCS are welcome to attend. TCS members will receive the latest organization and chapter updates and interested participants will learn more about TCS. Breakfast will be served.



Careers on the Coast- Tips, Tricks, and Industry Insights

St. James Ballroom

1:00 pm – 5:00 pm

Pre-registration is suggested, walk-ins allowed if space is available / \$25

Get the most out of your career! Where do you want to be in ten years and how do you get there? Join us for the event Careers on the Coast - Tips, Tricks, and Industry Insights hosted by The Coastal Society. Through this series of interactive discussions, we'll examine how to define your own notion of successfully moving through your career, what skills you have to break into new fields and what skills you'll need for different sectors, and how to evaluate your skills and career path. What experience do you have that applies to all fields? How can you best represent your skills and accomplishments? We'll explore these questions through guidance from professionals from multiple sectors, group mentoring, resume building and application training, and other activities.



Community Resilience Building Course

Camp Room

1:00 pm - 5:00 pm

Pre-registration is required / Free

Hosted by Adam Whelchel, Ph.D., The Nature Conservancy. This 4-hour course will provide training in the Community Resilience Building Workshop approach that has been tried, tested, and is now trusted by more than 35 communities. The CRB Workshop is a unique, "anywhere at any scale", community-driven process, rich with information, experience, and dialogue to equitably improve community resilience to all natural and climate-related hazards today, and in the future. The course will walk participants through all steps of the CRB Workshop process including core team establishment, goal setting, defining top hazards (past, current, future), participatory mapping of strengths and vulnerabilities, development of actions cross-walked against multiple hazards, and prioritizing solutions in a collaborative and supportive environment. This learning exchange will be reinforced with real world examples and experiential situations where the participants will use the Community Resilience Building process. Materials will be provided to all participants to help enable continued benefit after the course is completed.



Recognizing Shared Priorities: A National Ocean Service Whiteboard Session

Jackson Room

2:00 pm - 3:30 pm

Free for Summit Registrants

Please join Dr. Russell Callender, Director of NOAA's National Ocean Service (NOS) for an informal discussion on regional successes and challenges, as well as shared interests for NOS products and services among state and local partners. This is an opportunity to share first-hand experiences and lessons learned to inform recommendations for enhancing coastal resilience and management priorities with the arrival of a new Administration in 2017.

Presidents' Opening Reception and Opening of the Restoration and Management Expo

Expo and Poster Hall, Grand Salon

5:30 pm – 7:00 pm

Free for Summit Registrants

On behalf of the RAE and TCS Presidents, we invite you to meet new and old friends in the coastal restoration and management community at the Summit's Opening Reception of the Expo. Mingle with Summit attendees and learn about the latest tools, products, and services offered by more than 80 exhibitors from businesses, agencies, academia, and non-profit organizations. Refreshments and cash bar will be available.

Twitter Ambassador: Allison Colden, Senior Manager of External Affairs, Restore America's Estuaries, @colden_here

Summit Details



Marc J. Hershman Opening Plenary

Our Coasts, Our Future, Our Choice: The Gulf of Mexico – Proving Ground for Regional Recovery Strategies

8:30 am – 10:30 am

Grand Ballroom B

Sponsored by: Walton Family Foundation



Welcome

Jeff Benoit, *President, Restore America's Estuaries*

Matthew Nixon, *President, The Coastal Society*

Kimberly Reyher, *Executive Director, Coalition to Restore Coastal Louisiana*

The 2016 Summit theme, “Our Coasts, Our Future, Our Choice,” is particularly timely for the Gulf Coast, where enormous resources are being committed to help the region recover from recent disasters and long-term degradation to

achieve lasting ecological restoration at an unprecedented scale. The stakes are high, not only for the Gulf, but for all of our coasts and estuaries. At risk are cultural continuity, economic vitality, and ecosystem sustainability. As money starts to pour in, who will judge that the best decisions are being made, how will we know if we've made a difference, and what are the key factors to achieving success? With all eyes on the Gulf, the lessons learned here can help other regions set up for long term success as well. This engaging panel of experts representing science, integrated approaches to resiliency, and community leadership will provide provocative and challenging points of view on how these critical questions need to be considered. The panel will be moderated by a broadcast journalist who extensively covers the BP oil spill and community recovery. Come learn how this grand experiment is playing out and what it means for coastal ecosystem recovery and resilience nationwide.



Moderator: Debbie Elliott, *National Correspondent, National Public Radio*

NPR National Correspondent Debbie Elliott can be heard telling stories from her native South. She covers the latest news and politics, and is attuned to the region's rich culture and history. She's reported

on the catastrophic flooding in Louisiana, the Emanuel AME Church massacre in Charleston, and the mass shooting at an Orlando nightclub. Debbie has reported on the recovery from Hurricane Katrina along the Gulf Coast, and the impact of the BP oil spill. She launched the series, “The Disappearing Coast,” which examines Louisiana's complicated relationship with the oil and gas industry, and the oil spill's lasting imprint on a fragile coastline. She's tracking how states are spending funds from BP's court settlements and pollution fines. Debbie is a former host of NPR's news magazine *All Things Considered* on the Weekends. She reported on Congress from Capitol Hill, and has been covering Presidential elections for more than two decades. Debbie was born in Atlanta, grew up in the Memphis area, and is a graduate of the University of Alabama. She lives in south Alabama with her husband and two children.



Dr. Lauren Alexander Augustine, *Director, Program on Risk, Resilience, and Extreme Events, The National Academies of Sciences, Engineering, and Medicine*

Lauren Alexander Augustine is the Director of the Program on Risk, Resilience, and Extreme Events at the National Academy of Sciences. The marquis program is the Resilient America Roundtable, a set of activities that uses science, analysis, and

technology in combination with community engagement to build resilience to disasters and other disruptions in four U.S. Communities: Cedar Rapids, Iowa; Charleston, South Carolina; Seattle, Washington; and Tulsa, Oklahoma. For four years, she served on the World Economic Forum's Global Agenda Council on Risk and Resilience; was a member of the Advisory Board for the American Geophysical Union's Thriving Earth Exchange program; and a juror on the Rebuild by Design resilience competition for recovery after Hurricane Sandy. She currently assists with the UNISDR's Business and Science Forum. Lauren joined the Academies in 2002. In her tenure at the Academies, she was a study director for water science policy issues on the Water Science and Technology Board (2002 – 2008) and the Deputy Director for the African Science Academy Development Initiative (ASADI), a decadal, cross-academies program that built scientific capacity in national academies of science in eight African countries (2007-2013). From 2008-2013, she directed the Disasters Roundtable at the Academy. Her most recent positions at the Academy entail her developing a portfolio on natural disasters and ways that science can inform policy to reduce the risk and elevate society's resilience to them. Lauren earned her B.S. in applied mathematics and systems engineering and her Master's degree in environmental planning and policy from the University of Virginia; she completed her Ph.D. in an interdisciplinary program that combined physical hydrology, geomorphology, and ecology from Harvard University.

Summit Details

Monday Plenary Session



RESTORE
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Dr. Don Boesch, *President, University of Maryland Center for Environmental Science*

Don Boesch is a native of New Orleans and grew up along the Gulf Coast. He received a BS from Tulane University and a PhD from the College of William and Mary. Don was the first Director of the Louisiana Universities Marine Consortium, responsible for building its marine laboratory and two Gulf research vessels, before becoming the President of the University of Maryland Center for Environmental Science in 1990. A biological oceanographer, he has conducted research on estuaries, wetlands and continental shelves in the Mid-Atlantic region, Gulf of Mexico, eastern Australia and the East China Sea.

Don has held leadership positions in the Coastal and Estuarine Research Federation, National Academy of Sciences' Ocean Studies Board, Consortium for Ocean Leadership and Chesapeake Bay Foundation and is currently a member of the Leadership Council for the Joint Ocean Commission Initiative. In 2010 he was appointed by the President as a member of the National Commission for the BP Deepwater Horizon Oil Spill and Offshore Drilling. He subsequently served as a consultant to the U.S. government and an expert witness on the effects of the blowout in the trial for violations of the Clean Water Act. Don is also a member of the Advisory Board of the National Academies' Gulf Research Program, established under criminal plea agreements related to the blowout.



Jeffrey P. Hebert, *Chief Resilience Officer, City of New Orleans*

Jeff Hebert is the Chief Resilience Officer for New Orleans. Prior to becoming CRO, Mr. Hebert was named the Executive Director of the New Orleans Redevelopment Authority (NORA), which he oversees in his expanded role. NORA provides planning, financial support, and real estate for affordable housing and commercial corridor revitalization projects throughout the city, as well as managing land stewardship projects across New Orleans. Prior to joining NORA, Jeff served as the first-ever Director of Blight Policy and Neighborhood Revitalization for the City of New Orleans. In the aftermath of Hurricanes Katrina and Rita, Jeff served as the Director of Community

Planning for the Louisiana Recovery Authority and has worked in community development in Brooklyn and Philadelphia. Jeff has lectured widely on disaster recovery and is currently an Adjunct Professor of Sustainable Real Estate Development at the Tulane University School of Architecture. He earned a Bachelor's degree in Urban Design and Architecture Studies New York University and completed his graduate studies in City Planning at M.I.T. He recently completed the NeighborWorks® Achieving Excellence in Community Development program at Harvard University's John F. Kennedy School of Government and is a recipient of the 2012 Excellence in Government Innovation Award from the Bureau of Governmental Research.

Presentation of the NOAA Fisheries Dr. Nancy Foster Habitat Conservation Award

Pat Montanio, *Director, Office of Habitat Conservation, NOAA National Marine Fisheries Service*

NOAA established the NOAA Fisheries "Dr. Nancy Foster Habitat Conservation Award" in 1997 to honor Dr. Foster's legacy and long-term contributions to protect and restore coastal and marine habitats through her leadership in NOAA. This award recognizes those who exemplify her passion and dedication to coastal stewardship. Past winners of this prestigious national award have shown extraordinary commitment, innovation, and excellence in coastal and marine habitat protection, restoration, education, or research. Please join NOAA in celebrating the achievements of this year's winners.

Twitter Ambassadors:

- Jacques Hebert, Communications Director, National Audubon Society, Restore the Mississippi River Delta Coalition, @JacquesHebert
- Caitlyn McCrary, Communication Specialist, TBG at NOAA Office for Coastal Management, @CaitlynMcCrary
- Amanda Leinberger, NOAA Coastal Management Fellow, Puerto Rico Coastal Zone Management Program, @ajleinberger

Special thanks to The Mosaic Company for their generous support of the Water Quality Program Track (Concurrent Sessions 1-6 in the Jackson Room) and the Outreach, Education, and Engagement Program Track (Concurrent Sessions 4-10 in the Canal Room).

	St. Charles Ballroom	St. James Ballroom	Jefferson Ballroom	Commerce Room	Canal Room	Camp Room
Session	<p>Six Years Later - Gulf Restoration in a Post-Deepwater Horizon World</p> <p>Since 2010, state and federal government and other entities including NGO partners, have devoted extensive efforts to restore, conserve, and improve our understanding and management of the Gulf of Mexico. Included among these are the Natural Resource Damage Assessment, the Gulf Environmental Benefit Fund administered by the National Fish and Wildlife Foundation (NFWF), and the RESTORE Act. These processes have made headway over six years and now move forward sharing overarching goals for Gulf restoration.</p>	<p>Living Shorelines: Overview and Introduction</p> <p>This session will kick off the living shorelines track by providing an overview of living shorelines based on scientific literature and practitioner experience, with a focus on examining how their use and design has evolved.</p>	<p>Regional Ocean Planning in the Northeast, Mid-Atlantic, and West Coast United States</p> <p>A panel providing an overview of regional ocean planning efforts at various stages around the United States through implementation of the U.S. National Ocean Policy. This panel will focus on products to date, current efforts, and next steps with a new federal administration.</p>	<p>Blue Carbon Approaches and Opportunities</p> <p>In this session speakers will discuss the role of coastal ecosystems in climate mitigation, the opportunities and ongoing efforts to include blue carbon in policy and management, and science priorities for advancing blue carbon opportunities.</p>	<p>Management and Use of Offshore Sand Resources for Louisiana Barrier Island Restoration Canal Room</p> <p>This session will: 1) review dominant physical processes acting upon MRDP barrier systems and geomorphic response with applications on how natural processes inform management strategies; 2) highlight recent projects using OCS sand for barrier island restoration and operational lessons learned; and 3) discuss programmatic approaches to managing offshore sand resources.</p>	<p>Politics, Partnerships, and Parcel Taxes: Securing Regional Funding for Wetland Restoration</p> <p>In June 2016, San Francisco Bay Area voters passed a ballot measure to create a tidal marsh restoration fund of \$500 million through a new parcel tax. This session provides lessons learned from the decade-long effort to pass Measure AA, through a dynamic panel discussion among participants who worked together to conceive it and secure victory.</p>
	<p>MODERATOR:</p> <p>Debbie DeVore, <i>USFWS</i></p> <p>Panelists:</p> <ul style="list-style-type: none"> ■ Kevin Reynolds, <i>USFWS</i> ■ Buck Sutter, <i>Gulf Coast Ecosystem Restoration Council</i> ■ Tanner Johnson, <i>NFWF Gulf Environmental Benefit Fund</i> ■ Chris Barnes, <i>Office of the Governor, State of Louisiana</i> ■ David Muth, <i>National Wildlife Federation</i> 	<p>MODERATOR:</p> <p>Lee Weishar, <i>Woods Hole Group</i></p> <ul style="list-style-type: none"> ■ Living Shorelines - What Has Transpired - A 2016 Update Thomas Ries, <i>Scheda Ecological Associates, Inc.</i> ■ Sustainability of Living Shorelines in a World of Rising Sea Level and Increasing Wave Energy Carolyn Currin, <i>NOAA</i> ■ Samish Indian Nation-Weaverling Spit Beach Restoration Projects-Living Shorelines at Work Todd Woodard, <i>Samish Indian Nation-Natural Resources Dept.</i> ■ Second Generation Living Shoreline Approaches Utilized in Maryland's South River Kirk Mantay, <i>South River Federation</i> ■ St. John's College Demonstration Project 10 Years Later - A Success? Restoration Project Leading to Statewide Policy Will Be Reevaluated Rob Schnabel, <i>Chesapeake Bay Foundation</i> 	<p>MODERATOR:</p> <p>Kate Morrison, <i>Mid-Atlantic Regional Council on the Ocean</i></p> <ul style="list-style-type: none"> ■ Update on Regional Ocean Planning in the Mid-Atlantic Kate Morrison <i>Mid-Atlantic Regional Council on the Ocean</i> ■ Update on Northeast Regional Ocean Planning Steve Couture <i>Northeast Regional Ocean Council</i> ■ An Update on the West Coast Regional Planning Body John Hansen <i>West Coast Regional Planning Body</i> 	<p>MODERATOR:</p> <p>Pat Montanio, <i>NOAA</i></p> <ul style="list-style-type: none"> ■ Clarifying the Role of Coastal and Marine Systems in Climate Mitigation Jennifer Howard, <i>Conservation International</i> ■ Blue Carbon Progress and Priorities Steve Emmett-Mattox, <i>Restore America's Estuaries</i> ■ Working in Partnerships to Explore the Potential of Coastal Blue Carbon Habitats to Enhance Coastal Conservation Janine Harris, <i>NOAA (ERT Contractor)</i> ■ Blue Carbon Pathways for Coastal Conservation, Climate Action, and Resilient Communities Steven Lutz, <i>GRID-Arendal</i> ■ Bringing Coastal Wetlands to United States Inventory of Greenhouse Gas Emissions and Sinks Steve Crooks, <i>Silvestrum Climate Associates</i> 	<p>MODERATOR:</p> <p>Bridgette Duplantis, <i>Bureau of Ocean Energy Management</i></p> <ul style="list-style-type: none"> ■ Gulf of Mexico Offshore Sand Resources Inventory for Coastal Restoration Michael Miner, <i>Bureau of Ocean Energy Management</i> ■ Evolution of Barrier Island Restoration in Coastal Louisiana Gregory Grandy, <i>Coastal Engineering Consultants, Inc.</i> ■ Caminada Headland Beach and Dune Restoration, the First Use of Ship Shoal Sand for Barrier Island Restoration Brad Miller, <i>Coastal Protection and Restoration Authority</i> ■ Coastal Zone Management Practices along Muddy Deltaic Environments: Strategies for Development of a Sediment Management Plan Syed Khalil, <i>Coastal Protection and Restoration Authority</i> ■ Federal Sand Resources - Marine Minerals Geospatial and Information System "A National OCS Sand / Sediment Inventory" Lora Turner, <i>Bureau of Ocean Energy Management</i> 	<p>MODERATOR:</p> <p>David Lewis, <i>Save The Bay - San Francisco</i></p> <p>Panelists:</p> <ul style="list-style-type: none"> ■ Amy Hutzell, <i>California Coastal Conservancy</i> ■ Dave Pine, <i>San Francisco Bay Restoration Authority</i> ■ Mike Mielke, <i>Silicon Valley Leadership Group</i> ■ Adrian Covert, <i>Bay Area Council</i>
Details						
	12:30 pm - 2:00 pm					Lunch on your own

Royal Room	Jackson Room	Magazine Room	Fulton Room	Parish Room	Newberry Room
Sea Level Rise, Marsh Migration, and Coastal Land Conversion This session will bring together scientists from across the East Coast working on the issue of marsh migration to explore its rate and timing in various estuaries, the physical, biological, and anthropogenic factors speeding and slowing marsh migration, and the habitat quality of newly forming tidal marsh.	Critical Aspects of Water Quality and Quantity Water quality is one of the prime determinants of an ecosystem's ability to function properly, yet it is one of the hardest elements to track and change. This session will explore efforts around the country to analyze and manage water quality in coastal watersheds.	Importance of Coastal Habitats to Harvested Fishes This session will feature five talks on the ecological and economic value of coastal waters to commercial and recreational fisheries. Talks will cover the contributions of coastal conservation professionals, roles of local groups, and benefits to coastal communities, all with a Gulf of Mexico flavor with national application.	Shellfish Restoration: Innovative Approaches and Techniques Fulton Room Shellfish are often a keystone species in coastal ecosystems, providing habitat along with a broad range of functions. This session will feature shellfish restoration projects and programs from around the world.	East-Central Florida Estuarine Restoration Team (ECERT): Decoding the Indian River Lagoon, a National Treasure This session will describe restoration activities in Florida's Indian River Lagoon (IRL), including seagrass and oyster restoration, and coral condition assessment to assist habitat restoration planning. The session will also characterize IRL restoration needs and the formation of an East Central Florida Estuarine Restoration Team that identifies regional restoration priorities.	Coastal Film Series Featured Film: <i>Saving Jamaica Bay</i>

Session

MODERATOR: Keryn Gedan, <i>George Washington University</i> <ul style="list-style-type: none"> ■ Upland Land Use Effects on Tidal Marsh Migration in the Chesapeake Bay Keryn Gedan, <i>George Washington University</i> ■ Sea Level-Driven Marsh Expansion in a Coupled Model of Marsh Erosion and Migration David Walters, <i>Virginia Institute of Marine Science</i> ■ Ecological and Social Impediments to Marsh Migration in Long Island Sound Christopher R. Field, <i>University of Connecticut</i> ■ Impacts of Phragmites on Tree Growth and Survival Alison Cawood, <i>Smithsonian Environmental Research Center</i> ■ The Effects of Sea-Level Rise and Saltwater Intrusion on Wetland Nutrient Transport in the Atlantic Coastal Plain Kate Tully, <i>University of Maryland</i> 	MODERATOR: Anna Toline, <i>National Park Service</i> <ul style="list-style-type: none"> ■ Development of Freshwater Inflow Diversion Estimates for Hydrologic Restoration of the Naples Bay and Rookery Bay Watersheds, Southwest Florida David Tomasko, <i>Environmental Science Associates</i> ■ Hypoxia in a Hypersaline, Lagoonal South Texas Estuary (Baffin Bay): Timescales and Causes Michael Wetz, <i>Texas A&M University-Corpus Christi</i> ■ Dissolved Oxygen and Water Density Modeling of the Choctawhatchee Bay: Results, Climatic Influences, and Future Implications Brandy Foley, <i>Choctawhatchee Basin Alliance</i> ■ Coastal Watershed Planning – Analyzing Bacterial Loads in a Rural Watershed for BMP Implementation Stephanie Glenn, <i>HARC</i> ■ National Parks, Seashores, and Lakeshores: How Animal Agriculture is Affecting America's Best Idea Emily Jones, <i>National Parks Conservation Association</i> 	MODERATOR: Thomas Bigford, <i>American Fisheries Society/The Coastal Society</i> <ul style="list-style-type: none"> ■ The Role of Regional Fisheries Organizations in Conserving Coastal Habitat Doug Gregory, <i>Gulf of Mexico, Fishery Management Council</i> ■ New Partnerships to Benefit Fish Habitat Kim Ogonosky, <i>Building Conservation Trust</i> ■ Water as the Major Ecosystem Driver in Estuarine Health and Productivity Denise Reed, <i>The Water Institute of the Gulf</i> ■ A History of Regional Success on Conserving Fish Habitat Jessica Graham, <i>Southeast Aquatic Resources Partnership</i> ■ The Piscine Geography of Coastal and Estuarine Habitats Don Davis, <i>Louisiana Sea Grant Program</i> 	MODERATOR: Seth Blitch, <i>The Nature Conservancy</i> <ul style="list-style-type: none"> ■ Building the Largest Oyster Reef in the Country: How Historic Oyster Practices, Technology, and Policy Helped Develop the Capacity for Large-Scale Oyster Restoration in Maryland H. Ward Slacum, <i>Oyster Recovery Partnership</i> ■ Large-Scale Oyster Restoration in Chesapeake Bay: One Down, Nine to Go Stephanie Westby, <i>NOAA</i> ■ Great Southern Seascapes: Sparking a Revolution in Marine Conservation in Australia Simon Branigan, <i>The Nature Conservancy</i> ■ NOAA/RAE Barnegat Bay Good Luck Point Oyster Reef Restoration Project – Restoring Ecology, Community, and Connectivity Capt. Alek Modjeski, <i>American Littoral Society</i> ■ Use of Reef Balls on Living Shorelines, Best Practices Jim McFarlane, <i>Reef Ball Foundation / Reef Innovations</i> 	MODERATOR: Gian Basili, <i>USFWS</i> <ul style="list-style-type: none"> ■ Indian River Lagoon: Perfect Storm or New Norm Charles Jacoby, <i>St. Johns River Water Management District</i> ■ East Central Florida Estuarine Restoration Team (ECERT) and the Indian River Lagoon NEP: Coordinating and Integrating Multiple Partners for Enhanced IRL Ecosystem Restoration and Management Duane De Freese, <i>IRL Council & Indian River Lagoon National Estuary Program</i> ■ Development of a Seagrass Nursery for Restoration of Seagrass in the Indian River Lagoon M. Dennis Hanisak, <i>Harbor Branch Oceanographic Institute at Florida Atlantic University</i> ■ Community-Based Oyster Restoration and Monitoring in the Indian River Lagoon, Florida Sammy Anderson, <i>Brevard Zoo</i> ■ Black and Blue: Informing Estuarine Restoration Performance Measures Using Assessments of Offshore Coral Communities Jeffrey Beal, <i>Florida Fish and Wildlife Conservation Commission</i> 	<i>Saving Jamaica Bay</i> tells the story of how one community fought government inaction and overcame Hurricane Sandy to clean up and restore the largest open space in New York City.
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Details

12:30 pm - 2:00 pm Lunch on your own

	St. Charles Ballroom	St. James Ballroom	Jefferson Ballroom	Commerce Room	Canal Room	Camp Room
Session	<p>Linking Science and Management in the Gulf of Mexico in the Wake of the Deepwater Horizon Oil Spill</p> <p>Learn about the approaches being taken to link science to resource management, restoration, and community resilience in the Gulf of Mexico by several of the science and restoration initiatives established following the Deepwater Horizon oil spill.</p>	<p>Expert Showcasing of Innovative State Policies and Programs That Incentivize the Use of Nature Based Solutions for Erosion, Flood Risk Reduction, and Multiple Environmental Benefits</p> <p>This session will summarize research done by The Nature Conservancy on state policies that promote or facilitate the use of natural infrastructure of flood risk reduction, feature speakers from three successful such state policies, and include a question and answer session with the audience and panelists.</p>	<p>National Ocean Policy: Reflecting on the Past, Success Through Collaborative Implementation, and Transitioning into the Next Administration</p> <p>As we transition into a new administration, ocean users, decision makers, and conservationists must prepare for and adjust to new strategies and leadership. Through an interactive “coffee house,” participants will explore the creation and evolution of the National Ocean Policy, discuss collaboration as a fundamental element for success, and brainstorm strategies for carrying and expanding upon that success into the future.</p>	<p>Blue Carbon Markets and Methodologies</p> <p>In this session speakers will compare methodology options, provide recommendations for developing a carbon offset project, and share insight from the first tidal wetland offset projects being developed.</p>	<p>Living Shorelines in Action</p> <p>When and why do property owners choose living shorelines? How can they be promoted and implemented more effectively? The presenters in this session will address these questions and many more.</p>	<p>Eco Eco Un-day: Dollars, Cents, Coasts, and Water</p> <p>A roundtable discussion and question and answer session putting coastal restoration and enhancement into the broader context of how coastal waters and ecosystems define and drive the prosperity of communities and economies.</p>
Details	<p>MODERATOR:</p> <p>Julien Lartigue, NOAA</p> <p>Panelists:</p> <ul style="list-style-type: none"> ■ Kelly Darnell, <i>The RESTORE Act Center of Excellence for Louisiana</i> ■ Libby Fetherston, <i>Florida RESTORE Act Centers of Excellence Program</i> ■ Jonathan Porthouse, <i>National Fish and Wildlife Foundation</i> ■ Alyssa Dausman, <i>Gulf Coast Ecosystem Restoration Council</i> ■ Chris Elfring, <i>Gulf Research Program</i> 	<p>MODERATOR:</p> <p>Ana Tinsler, <i>The Nature Conservancy</i></p> <ul style="list-style-type: none"> ■ Expert Showcasing of Innovative State Policies and Programs that Incentivize the Use of Nature Based Solutions for Erosion, Flood Risk Reduction, and Multiple Environmental Benefits Ana Tinsler & Alice Tripp, <i>The Nature Conservancy</i> ■ Overview of Washington's Policies and Programs in Place to Promote the Use of Natural Infrastructure for Erosion, Flood Risk Reduction, and Yield Multiple Environmental Benefits Sheida Sahandy, <i>Executive Director, Puget Sound Partnership</i> ■ Overview of New Jersey's Policies and Programs That Promote the Use of Natural Infrastructure to Reduce Flood Risks, Erosion, and Yield Multiple Environmental Benefits Colleen Keller, <i>New Jersey Department of Environmental Protection</i> ■ Massachusetts Coastal Zone Management Overview of Natural Infrastructure Policies and Programs Julia Knisel, <i>MA Office of Coastal Zone Management</i> 	<p>MODERATOR:</p> <p>Sarah Winter Whelan, <i>American Littoral Society</i></p> <p>Panelists:</p> <ul style="list-style-type: none"> ■ Jennifer Felt, <i>Conservation Law Foundation</i> ■ Jenna Valente, <i>Healthy Oceans Coalition</i> ■ Pete Stauffer, <i>Surfrider Foundation</i> 	<p>MODERATOR:</p> <p>Stefanie Simpson, <i>Restore America's Estuaries</i></p> <ul style="list-style-type: none"> ■ Wetland Restoration and Conservation Methodologies Within the Verified Carbon Standard – A Comparison of Eligibility, Applicability, and Monitoring Requirements Shawn McMahon, <i>Environmental Services, Inc.</i> ■ Results of the Luling, Louisiana Wetland Carbon Credit Pilot Project Sarah Mack, <i>Tierra Resources</i> ■ Blue Carbon Financing for Tidal Wetland Restoration and Conservation: Options and Scientific Developments Brian Needelman, <i>University of Maryland</i> ■ Assessing Carbon Stocks and Fluxes in the Herring River, a Tidally Restricted Estuary on Cape Cod, Massachusetts Tim Smith, <i>National Park Service</i> ■ Herring River Restoration Project – Blue Carbon Feasibility Assessment Scott Settelmyer, <i>TerraCarbon</i> 	<p>MODERATOR:</p> <p>Erin Hague, <i>Tetra Tech</i></p> <ul style="list-style-type: none"> ■ Valuing Preferences for Living Shorelines Compared to Hard-Engineered Structures in Jamaica Bay New York After Superstorm Sandy Lou Nadeau, <i>Eastern Research Group, Inc.</i> ■ The Promotion of Living Shorelines in Delaware Through a Dedicated Work Group Alison Rogerson, <i>Delaware DNREC</i> ■ The Art and Science of Designing Living Shorelines: A Case Study in Mississippi Leah Bray, <i>Anchor QEA</i> ■ Learning from Your Neighbors: How the South Atlantic is Sharing and Tackling the Challenges of Living Shorelines Jason Doll, <i>Moffatt & Nichol</i> ■ Evaluating Living Shorelines to Inform Regulatory Decision-making in South Carolina Sharleen Johnson, <i>SCDNR-MRRI</i> 	<p>MODERATOR:</p> <p>Mark Davis, <i>Tulane Institute on Water Resources Law & Policy</i></p> <p>Panelists:</p> <ul style="list-style-type: none"> ■ Robin Barnes, <i>Greater New Orleans, Inc.</i> ■ Jeff Hebert, <i>City of New Orleans</i> ■ Paul Olsen, <i>Old Dominion University</i>
	3:30 pm – 4:00 pm Coffee Break and Refreshments					

Royal Room	Jackson Room	Magazine Room	Fulton Room	Parish Room	Newberry Room
<p>Getting to Scale with Marsh Restoration</p> <p>Large-scale and landscape-scale projects may result in great benefits, but they also require unique approaches to be successful. The presenters in this session will discuss a variety of efforts from around the country and the lessons they've learned along the way.</p>	<p>Developing Freshwater Inflow Management Programs - The Texas Experience: How Science, Public Policy, and Planning Efforts Have Supported a Diversity of Approaches and Programs</p> <p>This session will examine the inter-relationship between the sciences, which identify the ecological requirements for freshwater inflow to estuaries, public policy, which prioritizes these needs relative to other demands for freshwater, and planning, which directs resources and actions towards meeting the needs for FWI to estuaries.</p>	<p>Bridging the Gap: Communicating Fishery Management Needs to Habitat Scientists Part 1</p> <p>In this symposium, we will highlight collaborations between managers and habitat scientists in framing scientific priorities for the refinement and conservation of essential fish habitat, and discuss ways to move forward in aligning habitat science investigations with the needs of habitat and fishery managers.</p>	<p>Shucking Shell to Restore Our Shores</p> <p>This session shares best practices, adaptive management strategies, challenges, and opportunities regarding the use of oyster shell in coastal restoration activities and educational programs. We survey various strategies for implementing oyster shell recycling and reef restoration programs in the estuaries of Texas, Louisiana, Florida, and New York.</p>	<p>Northeast Florida Estuarine Restoration Team: Moving Restoration Forward through Collaboration</p> <p>The Northeast Florida Estuary Restoration Team (NERT) is a multi-agency initiative that aims to improve communication, increase efficiency, and apply resources strategically for coastal restoration. This session will introduce the purpose and goals of the group, and highlight several regional projects that resulted from coordination between NERT partners.</p>	Session Details
<p>MODERATOR:</p> <p>Donna Ball, <i>Save The Bay - San Francisco</i></p> <ul style="list-style-type: none">Restoring Wetlands in Highly Developed Urban Estuaries, Sharing Lessons Learned from Planning, Permitting, Building, and Maintaining Habitat Restoration Projects in Seattle's Duwamish River Estuary John Kern, <i>NOAA</i>Urban Oases: The Role of National Wildlife Refuges in Achieving Multi-Benefit Restoration of the San Francisco Bay Estuary Anne Morkill, <i>USFWS San Francisco Bay National Wildlife Refuge Complex</i>Habitat is Where it's At: An Urban Wildlife Conservation Partnership David Stoughton, <i>USFWS</i>Red Light – Green Light: A Decade After the Start of Restoration, How is the South Bay Salt Pond Restoration Project Moving Forward? Cheryl Strong, <i>USFWS</i>Landscape Scale Conservation and Restoration of the Maurepas Swamp for Multiple Benefits Honora Buras, <i>Coastal Protection and Restoration Authority</i>	<p>MODERATOR:</p> <p>Elizabeth Smith, <i>International Crane Foundation</i></p> <ul style="list-style-type: none">Early Efforts, and Successes, in Developing and Implementing Freshwater Inflow Management Programs for Two Estuaries on the Central Texas Coast James Dodson, <i>San Antonio Bay Partnership</i>Policy and Science Framework for FWI Determinations Under Texas SB3 Paul Montagna, <i>Harte Research Institute, Texas A&M University-Corpus Christi</i>Addressing Research Needs Identified in an Adaptive Management Process to Help Define the Freshwater Inflow Requirements of the Guadalupe-San Antonio and Mission-Aransas Estuaries Edward Buskey, <i>University of Texas Marine Science Institute</i>Use of Science and Stakeholder Processes to Resolve Intractable Water-Related Issues: The Edwards Aquifer Recovery Implementation Program Robert Gulley, <i>Texas Comptroller</i>Resolving Conflicts Over Water for Humans and Nature: The TAP – GBRA Agreement Todd Votteler, <i>Guadalupe-Blanco River Authority</i>	<p>MODERATOR:</p> <p>Lauren Latchford, <i>NOAA</i></p> <ul style="list-style-type: none">Challenges for Making the Bridge Between Ecologists and Decision-Makers a Two-Way Street: One Ecologist's Perspective Peter Auster, <i>University of Connecticut & Mystic Aquarium</i>Creation of a Prioritization Scheme to Guide Conservation and Restoration Actions Supporting Fish Habitat Functions in West Coast Estuaries Lisa DeBruyckere, <i>Pacific Marine and Estuarine Fish Habitat Partnership (PMEP)</i>Web-Enabled Inventory and Map Service of Habitat Mapping and Water Quality Monitoring Programs Randy Clark, <i>NOAA NCCOS Biogeography Branch</i>Communicating Coastal Habitat Value to Fishery Production Bryan DeAngelis, <i>The Nature Conservancy</i>The Alaska Essential Fish Habitat Research Plan – A Cooperative Success Jodi Pirtle, <i>NOAA Fisheries</i>	<p>MODERATOR:</p> <p>Deborah Abibou, <i>Coalition to Restore Coastal Louisiana</i></p> <ul style="list-style-type: none">The Galveston Bay Foundation's Oyster Shell Recycling Program Haille Carter, <i>Galveston Bay Foundation</i>Sink Your Shucks: Oyster Shell Recycling, Community Engagement, and Reef Restoration Jennifer Pollack, <i>Texas A&M University - Corpus Christi</i>Once You Shuck 'em, Don't Just Chuck 'em: Leveraging New Orleansian's Love of Oysters for Coastal Restoration Deborah Abibou, <i>Coalition to Restore Coastal Louisiana</i>A Bad Place to Lose a Shoe and Other Lessons Learned in Oyster Shell Restoration in Tampa Bay Andy Lykens, <i>Tampa Bay Watch</i>Billion Oyster Project: Restoration, Education, and Collecting Shells in New York City Peter Malinowski, <i>New York Harbor Foundation</i>	<p>MODERATOR:</p> <p>Anne Roddenberry, <i>Florida Fish and Wildlife Conservation Commission</i></p> <ul style="list-style-type: none">Northeast Florida Estuary Restoration Team: A Template for Large-Scale Coastal Restoration Paul Haydt, <i>St. Johns River Water Management District</i>Restoration of Mosquito Impoundments and Dragline Ditches in Northeast Florida Kent Smith, <i>Florida Fish and Wildlife Conservation Commission</i>Oyster Recycling Efforts on Florida's East Coast Jessy Wayles, <i>Marine Discovery Center</i>Marsh Madness: Engaging Students and the Public in Estuarine Restoration Annie Roddenberry, <i>Florida Fish and Wildlife Conservation Commission</i>Development of Decision-Making Tools for the Application of Living Shoreline Restoration at a Regional Scale on the Northeastern Coast of Florida Melinda Donnelly, <i>University of Central Florida</i>	
3:30 pm – 4:00 pm Coffee Break and Refreshments					

	St. Charles Ballroom	St. James Ballroom	Jefferson Ballroom	Commerce Room	Canal Room	Camp Room
Session	<p>How Can Transparency and Accountability Safeguard Gulf Restoration?</p> <p>In the wake of the Deepwater Horizon oil spill, billions of dollars are set to flow through the Gulf restoration and recovery processes. This session will address how citizens, organizations, and governments can work to ensure that the restoration and recovery processes are transparent and accountable.</p>	<p>The Living Shorelines Academy: An Online Resource Promoting the Exchange of Information, Research, Training, Policies and Practices to Promote the Advancement of Living Shorelines</p> <p>This interactive session will introduce the resources available within the Living Shoreline Academy, an online resource currently under development by the North Carolina Coastal Federation, and Restore America's Estuaries, through funds awarded by the U.S. Environmental Protection Agency. Participants will be guided through the various resources, including a national database of projects, training modules for property owners and professionals, primary and secondary literature, an on-line forum, professionals directory, policies, and a resource library.</p>	<p>Embedding Natural Resource Communities into Ocean Planning</p> <p>As regional ocean plans move from development into implementation, some natural resource-dependent community members fear that the implementation of the plans may cause tangible impacts to their communities and livelihoods. This panel discussion will explore how community is incorporated into ocean plans through the inclusion of relevant data, contextual information, and best practices for stakeholder engagement as well as how implementation of an ocean plan with community in mind can contribute to plan durability.</p>	<p>Blue Carbon and Landscape Transitions</p> <p>In this session, researchers and practitioners across the Gulf share the results of blue carbon habitat analysis and the implications of their findings for management and conservation across the coastal landscape.</p>	<p>Engaging Congress in Funding Efforts to Restore and Protect Coasts and Estuaries</p> <p>Congress plays a pivotal role in funding federal agencies to complement and support the work of states, localities, NGOs and the private sector in protecting our increasing fragile and economically vital coasts and estuaries. This session will focus on how to keep Congress engaged in this effort.</p>	<p>Finding the Perfect Balance: The Intersection of Finance, Funding, and Partnerships</p> <p>In order for a project or program to succeed, it needs the perfect balance of partnerships, financing tools, and the funds to back it. This session highlights a number of innovative approaches and projects that have forged new paths in making on-the-ground change happen.</p>
Details	<p>MODERATOR:</p> <p>Teresa Chan, <i>Environmental Law Institute</i></p> <p>■ Greater Than the Sum of the Parts: How Monitoring and Restoration Tracking Support Transparency and Accountability in Gulf Restoration Kara Lankford, <i>Ocean Conservancy</i></p> <p>■ Tracking and Coordinating Gulf Restoration to Forge a Path Forward Laura Bowie, <i>Gulf of Mexico Alliance</i></p> <p>■ Building Transparency and Accountability for Gulf Coast Communities Colette Pichon Battle, <i>Gulf Coast Center for Law & Policy</i></p> <p>■ Evaluating the Estuary Restoration Act and Oyster Reef Projects to Inform Gulf Restoration Brittany Blomberg, <i>Dauphin Island Sea Lab</i></p> <p>■ The State of Things: Challenges Facing Gulf Restoration Moving Forward Kelly Samek, <i>Environmental Law Institute</i></p>	<p>MODERATOR:</p> <p>Tracy Skrabal, <i>North Carolina Coastal Federation</i></p> <p>Presenters:</p> <p>■ Tracy Skrabal, <i>North Carolina Coastal Federation</i></p> <p>■ Suzanne Simon, <i>Restore America's Estuaries</i></p>	<p>MODERATOR:</p> <p>Nick Battista, <i>Island Institute</i></p> <p>Panelists:</p> <p>■ Nick Battista, <i>Island Institute</i></p> <p>■ Tiffany Smythe, <i>The University of Rhode Island</i></p> <p>■ Rebecca Clark, <i>Island Institute</i></p>	<p>MODERATOR:</p> <p>John Schmerfeld, <i>USFWS</i></p> <p>■ Tampa Bay Blue Carbon Assessment: Quantifying Greenhouse Gas Exchanges in Coastal Wetlands Lindsey Sheehan, <i>Environmental Science Associates</i></p> <p>■ A New Paradigm for Tampa Bay Coastal Habitat Restoration in the Face of Sea Level Rise Doug Robison, <i>Environmental Science Associates</i></p> <p>■ Quantifying Coastal Blue Carbon Stocks in Vegetation and Soils of Mangroves, Salt Marshes, and Salt Barrens in Tampa Bay, Florida Ryan Moyer, <i>Florida Fish & Wildlife Conservation Commission</i></p> <p>■ Mangrove Population Growth on the Texas Coast: Implications for Blue Carbon Storage and Coastal Wetland Restoration Anna Armitage, <i>Texas A&M University at Galveston</i></p> <p>■ Carbon Accumulation Rates Across Four Marsh Habitats in Coastal Louisiana Leland Moss, <i>The Water Institute of the Gulf</i></p>	<p>MODERATOR:</p> <p>Rich Innes, <i>Association of National Estuary Programs</i></p> <p>Panelists:</p> <p>■ Ron Anderson, <i>Office of Senator Bill Cassidy</i></p> <p>■ Adena Liebman, <i>Office of Senator Sheldon Whitehouse</i></p> <p>■ Rebecca Roth, <i>National Estuarine Research Reserve Association</i></p> <p>■ Chris Adamo, <i>White House Council on Environmental Quality</i></p> <p>■ Allison Colden, <i>Restore America's Estuaries</i></p>	<p>MODERATOR:</p> <p>Tim Feather, <i>CDM Smith</i></p> <p>■ Fiscal Gumbo – A Great Recipe for Restoration in Tampa Bay Gary Raulerson, <i>Tampa Bay Estuary Program</i></p> <p>■ Beyond Grants: Innovative Financial Strategies for Public and Private Financing of Coastal and Estuarine Restoration and Management Projects Michael Curley, <i>Environmental Law Institute</i></p> <p>■ Restoration of Oakland Bay at the Head of Puget Sound, A New Partnership for Recovery Jeff Dickson, <i>Squaxin Island Tribe</i></p>

5:30 pm - 7:30 pm

Poster Session Happy Hour

Sponsored by: Environmental Services, Inc.

Royal Room	Jackson Room	Magazine Room	Fulton Room	Parish Room	Newberry Room
Sediment Management and Beneficial Reuse in Coastal Restoration and Management The management of sediments, particularly in coastal contexts, is challenging yet can result in unique and beneficial projects. This session examines various approaches and provides lessons learned from around the country.	Designing Solutions for Clean Water on Cape Cod On Cape Cod, coastal waters are threatened by nitrogen from septic systems. This session outlines a framework for problem-solving that is designing the future of clean water by achieving consensus through the use of geospatial models focused on the jurisdiction of the problem instead of the jurisdiction of the politics.	Bridging the Gap: Communicating Fishery Management Needs to Habitat Scientists, Part II We will highlight collaborations between managers and habitat scientists in framing scientific priorities for the refinement and conservation of essential fish habitat, and discuss ways to move forward in aligning habitat science investigations with the needs of habitat and fishery managers.	The Shellfish - Water Quality Nexus Shellfish have astounding capabilities for removing nutrients and particulates from the water, making them a valuable ally in water quality efforts. This session will feature presentations highlighting innovative uses and how communities are incorporating shellfish into restoration efforts for multiple benefits.	Tools and Approaches for Coastal Adaptation and Resilience This session will feature a variety of experts from around the U.S. presenting examples on how communities and regions are planning to increase resilience and adaptation in the face of climate change.	Coastal Film Series Featured Film: <i>Return of the River</i>

Session

MODERATOR: Steve MacLeod, <i>Ecology & Environment, Inc.</i> <ul style="list-style-type: none"> Restoring Tidal Wetlands Using Dredged Material: 20 Years of Physical and Biological Monitoring Michelle Orr, <i>Environmental Science Associates</i> Beneficially Using Dredge Material to Rebuild a Salt Marsh Along Pepper Creek, Delaware Alison Rogerson, <i>Delaware DNREC</i> Review of Planning and Construction Tools, Monitoring Protocols and Lessons Learned From Three Decades of Coastal Wetland Restoration Projects Ram Mohan, <i>Anchor QEA</i> Coastal Management, Sediment, and Science: The Nexus Between Dredging, Mining, Flood Protection, and Marsh Restoration Brenda Goeden, <i>San Francisco Bay Conservation & Development Commission</i> 	MODERATOR: Paul Niedzwiecki, <i>Cape Cod Commission</i> <ul style="list-style-type: none"> Engaging Communities Around the Jurisdiction of the Problem Kristy Senatori, <i>Cape Cod Commission</i> Watershed Solutions, Monitoring, and Data Management Scott Horsley, <i>Horsley Witten Group</i> Watershed-Based Scenario Planning Thomas Parece, <i>AECOM Technical Services, Inc.</i> Innovative Financing Andrew Gottlieb, <i>Cape Cod Water Protection Collaborative</i> Growth Management and Regulatory Reform Patty Daley, <i>Cape Cod Commission</i> 	MODERATOR: Tony Marshak, <i>NOAA</i> <ul style="list-style-type: none"> Alignment of Habitat Science with Fisheries Management in the Mid-Atlantic Jessica Coakley, <i>Mid-Atlantic Fishery Management Council</i> Evolution of an Eelgrass Habitat Protection Policy Along a Highly Developed Coastline Eric Chavez, <i>NOAA Fisheries</i> Habitat Science and Management Applications in the Gulf of Mexico Claire Roberts, <i>Gulf of Mexico Fishery Management Council</i> The Fish Habitat Decision Support Tool: An Example of How Managers and Scientists Can Partner to Conserve Fish Habitat in Atlantic Estuaries Lisa Havel, <i>Atlantic Coastal Fish Habitat Partnership</i> Panel Discussion Facilitated by Pat Montanio, <i>NOAA</i> 	MODERATOR: Capt. Alek Modjeski, <i>American Littoral Society</i> <ul style="list-style-type: none"> Ribbed Mussel Nutrient Bio-Extraction Pilot Project Robbie Hudson, <i>Save The Bay - Narragansett Bay</i> Nitrogen Mitigation by Oyster Culture Striving to Comply With the Clean Water Act David Grunden, <i>Town of Oak Bluffs, MA</i> Evaluating Nutrient Reduction From Oyster Practices as Potential Biological In-Water Best Management Practices: Decision Framework and Recommendations From the Chesapeake Bay Oyster BMP Expert Panel Julie Reichert-Nguyen, <i>Oyster Recovery Partnership</i> Development and Refinement of Freshwater Inflow Standards in Matagorda and Lavaca Bays, Texas, Using Oysters and Dermo Daniel Opdyke, <i>Anchor QEA</i> Oyster Reef Habitat Restoration in St. Andrew Bay, Florida Katie Konchar, <i>Florida Fish and Wildlife Conservation Commission</i> 	MODERATOR: Julia Wyman, <i>Marine Affairs Institute and Rhode Island Sea Grant Legal Program</i> <ul style="list-style-type: none"> Coastal Resiliency in Action: Examples From Two Coastal Communities Lynette Cardoch, <i>HDR</i> Higher Ground: Leveraging Baltimore's Topography in Response to Increased Risks of Coastal and Riparian Flooding Katie O'Meara, <i>Maryland Institute College of Art</i> Planning for Sea Level Rise and Coastal Resilience at Norfolk's Harbor Park Phoebe Crisman, <i>University of Virginia</i> Building Local and Regional Capacity for Community Resilience in Coastal Louisiana Traci Birch, <i>Louisiana State University, Coastal Sustainability Studio</i> Collaborating for Climate Adaptation Planning: A Case Study of the New Hampshire Coastal Adaptation Workgroup Catherine Ashcraft, <i>University of New Hampshire</i> 	<i>Return of the River</i> is a film about the largest dam removal project in American history, and the extraordinary effort to restore an ecosystem in the state of Washington.
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Details

5:30 pm - 7:30 pm Poster Session Happy Hour Sponsored by: Environmental Services, Inc.

	St. Charles Ballroom	St. James Ballroom	Jefferson Ballroom	Commerce Room	Canal Room	Camp Room
Session	<p>Deepwater Horizon Natural Resource Damage Assessment: Moving From Injury Assessment to Restoration Implementation and Monitoring</p> <p>This session will summarize the impact of the Deepwater Horizon oil spill and various aspects of the up to \$8.8 billion dollars in restoration that will occur over the next two decades, including restoration planning, monitoring, and adaptive management, monitoring ecosystem recovery, and data management.</p>	<p>Monitoring Large-Scale Living Shoreline Projects on the Northern Gulf Coast</p> <p>This session will provide a description of tools developed to plan and implement living shoreline monitoring using consistent parameters that allow for regional comparisons of different types of large-scale living shoreline projects. The presentations will touch on monitoring during all project phases from planning, through construction, and post-construction.</p>	<p>Re-Thinking USACE's Standards: An Ecologically Balanced Approach to Structured Shorelines</p> <p>With climate change increasingly threatening our urban shores, it's time to reexamine decades-old solutions and standards. This session will explore innovative adaptations to create vital marine habitat, achieve greater ecological diversity, and promote aesthetically pleasing shorelines.</p>	<p>Blue Carbon Quantification and Management Implications</p> <p>In this session speakers share the results of their research and explore ways to use this ecosystem service to support management and restoration efforts.</p>	<p>Communication and Outreach 101: What You Need to Know</p> <p>This session will cover the basics of communication, outreach, and engagement, along with lessons learned from practitioners. Don't have the foggiest idea about social media? Want to learn how to compellingly describe your efforts? Learn how to hone and convey your message at this session.</p>	<p>Increasing Private Investment in Restoration and Ecosystem Services: Ecosystem Service Providers and the Mitigation Banking Industry as Powerful Allies</p> <p>This session presents an overview of private investment in ecosystem restoration by leaders in the ecosystem services and mitigation/conservation banking industries. Presenters will discuss the state of the markets, sources of investment capital, and examples of high quality restoration within estuarine environments and drainage basins provided through mitigation projects.</p>
Details	<p>MODERATOR:</p> <p>Tom Brosnan, NOAA</p> <ul style="list-style-type: none"> Deepwater Horizon Oil Spill NRDA: Summary of Injuries to the Public's Natural Resources Tom Brosnan, NOAA Office of Response and Restoration Open Ocean Restoration Planning Aileen Smith, NOAA Restoration Center A Monitoring and Adaptive Management Framework to Support the Restoration of Resources Injured by the Deepwater Horizon Oil Spill Melissa Carle, NOAA Restoration Center/Earth Resources Technology Monitoring What Matters: Creative, Cross-Cutting, and Collaborative Approaches to Tracking Gulf of Mexico Ecosystem Recovery Chris Robbins, Ocean Conservancy Managing and Sharing Assessment and Restoration Data Using the Deepwater Horizon DIVER (Data Integration, Visualization, Exploration, and Reporting) Tool Steve Peccini, NOAA Restoration Center 	<p>MODERATOR:</p> <p>Dan Van Nostrand, NOAA</p> <ul style="list-style-type: none"> Deepwater Horizon Living Shoreline Project Monitoring Frameworks Jamey Redding, NOAA (ERT Contractor) Living Shoreline Construction Monitoring: Setting the Stage for Success Jason Kroll, NOAA RESTORE Coastal Alabama Comprehensive Living Shoreline Monitoring Project Carl Ferraro, Alabama Department of Conservation and Natural Resources We're Monitoring. We Have Data. Now What? Judy Haner, The Nature Conservancy Monitoring Living Shorelines in Mississippi: Integrating Outcomes for Broader Restoration Success Thomas Strange, Covington Civil and Environmental 	<p>MODERATOR:</p> <p>Gary Sorge, Stantec</p> <p>Panelists:</p> <ul style="list-style-type: none"> Marcha Johnson, New York City Department of Parks and Recreation Devin Santa, Roberge Associates Coastal Engineers, LLC Robert Mullins, Stantec Adam Whelchel, The Nature Conservancy 	<p>MODERATOR:</p> <p>Robert Twilley, Louisiana Sea Grant</p> <ul style="list-style-type: none"> Blue Carbon Sequestration in Living Shorelines: Variability Across a Geographical Gradient Jenny Davis, NOAA/NOS/CSS Spartina Alterniflora Has Higher Methane Emissions in a Tidal Brackish Marsh Than Other Plant Communities at Similar Salinities R. Kyle Derby, University of Maryland, College Park Tidal Restoration Promotes Reduced Methane Emissions in Salt Marshes: A Case Study From Casco Bay, Maine Beverly Johnson, Bates College Assessing Carbon Storage Capacity in Eelgrass (Zostera marina) Meadows in Massachusetts Prassede Vella, MassBays National Estuary Program; MA Office of Coastal Zone Management Introduction to the Blue Carbon Calculator: A Simple Tool for Green House Gas Accounting for Ecosystem Restoration Projects Tim Purinton, Mass Division of Ecological Restoration 	<p>MODERATOR:</p> <p>Carli Bertrand, NOAA</p> <ul style="list-style-type: none"> Make Social Media Work for You Caitlyn McCrary, The Baldwin Group, NOAA Methods for Engaging Educators to Teach About the Estuary System in the Classroom Rani Henderson, Galveston Bay Foundation Utilizing Citizen Science Water Monitoring as a Platform for Measurable Change Sarah Gossett, Galveston Bay Foundation Choosing a Future for Our Coasts Through Multifaceted Community Outreach and Engagement Programs Kaitlin Grable, Galveston Bay Foundation 	<p>MODERATOR:</p> <p>Pam Fetterman, EcoGENESIS, LLC</p> <ul style="list-style-type: none"> How Impact Investment From Foundations and High Net Worth Individuals is Being Used to Finance Restoration Actions Ben Guillon, WRA, Inc. Scaling-Up Restoration Funding Through Institutional Investing to Meet the Demands of the 21st Century David Tepper, Forest Trends and The Earth Partners, LP Private Sector Restoration, Project Examples, and Successful Outcomes Brett Berkley, GreenVest, LLC Using Private Investment to Restore Coastal Plain Stream/Wetland Ecosystems Adam McIntyre, Water & Land Solutions, LLC Encouraging Private Investment in Restoration Through Scientifically Verifiable Performance Results Don Ross, National Mitigation Banking Association and EarthBalance, Inc.
	10:00 am - 10:30 am		Morning Coffee Break			

Royal Room	Jackson Room	Magazine Room	Fulton Room	Parish Room	Newberry Room	Session
<p>Marsh Restoration: Techniques and Lessons Learned</p> <p>This session explores various aspects of marsh restoration with particular focus on techniques regarding vegetation and reference conditions.</p>	<p>Nitrogen Reduction Strategies in Northeast National Estuary Programs: Successes, Setbacks, and Lessons Learned</p> <p>The Directors or lead scientists from each of five diverse Northeast National Estuary Programs (Barnegat Bay, Long Island Sound, Peconic Bay, Narragansett Bay, and Buzzards Bay) will describe their nitrogen reduction strategies, progress, and next steps. The speakers will stress the “lessons learned” that are applicable to other estuaries.</p>	<p>Planning and Designing Resilient Communities</p> <p>In order for communities to be ready for a future with climate change, they must undertake planning initiatives on a variety of fronts. This session features examples of efforts to make communities stronger and more resilient.</p>	<p>Understanding Eastern Oyster Reef Dynamics for Improved Restoration and Management</p> <p>This session will explore recent efforts from East and Gulf coast exploring oyster population dynamics, reef restoration, and factors affecting the provision of ecosystem services.</p>	<p>Storming Back 1: Sediment Enrichment, Planning, and Assessment</p> <p>This session (first of three dedicated to Hurricane Sandy resiliency projects on National Wildlife Refuges) focuses on the use of sediment enrichment to increase the resiliency and sustainability of coastal salt marshes. Often described as “thin layer deposition” many projects require nearly 30 cm of sediment to adequately raise elevation.</p>		
<p>MODERATOR:</p> <p>Lynette Cardoch, <i>HDR</i></p> <ul style="list-style-type: none"> ■ Advancing Seeding Technologies of Smooth Cordgrass (<i>Spartina alterniflora</i>) for Tidal Marsh Restoration Christopher Miller, <i>USDA-NRCS, Cape May Plant Materials Center</i> ■ The Oro Loma Horizontal Levee Demonstration Project - Scaling-Up Native Species Propagation Methods to Accommodate Large Transition Zone/ Ecotone Projects of the Future Jessie Olson, <i>Save The Bay - San Francisco</i> ■ Estuarine- Terrestrial Transitional Habitat Creation David Thomson, <i>San Francisco Bay Bird Observatory - Habitats Program</i> ■ NJ Wetlands Past, Present, and Future: Using Sediment Archives to Inform and Guide Wetland Protection, Restoration and Resilience Mihaela Enache, <i>New Jersey Department of Environmental Protection</i> 	<p>MODERATOR:</p> <p>James Ammerman, <i>Long Island Sound Study/ NEIWPCC</i></p> <ul style="list-style-type: none"> ■ A Thirty-Second TMDL: Lessons From Models Used in Massachusetts to Establish Watershed Nitrogen Loading Limits Joseph Costa, <i>Buzzards Bay National Estuary Program</i> ■ Success! Nitrogen Loading Reduced by 50%! Now What? Assessing Water Quality Improvements After Nutrient Load Reductions Courtney Schmidt, <i>Narragansett Bay Estuary Program</i> ■ Long Island Sound Nitrogen Reduction Strategy Mark Tedesco, <i>U.S. EPA</i> ■ Reducing Non-Point Source Nitrogen Loads: When TMDLs Aren't Enough Alison Branco, <i>Peconic Estuary Program</i> ■ What If There Are No Points? Nutrient Reduction in a Non-Point Source Dominated Watershed James Vassilides, <i>Barnegat Bay Partnership</i> 	<p>MODERATOR:</p> <p>Lewie Lawrence, <i>Middle Peninsula Planning District Commission</i></p> <ul style="list-style-type: none"> ■ Building Resilient Communities One Code at a Time Julia Noordyk, <i>University of Wisconsin Sea Grant Institute</i> ■ Southeast Michigan's Green Infrastructure Vision: Engaging Community Leaders Through a Series of Implementation Strategy Workshops Mary Bohling, <i>Michigan Sea Grant</i> ■ San Mateo Shore UP – Using Wetlands to Design Resilient Public Infrastructure as Vital Public Space Johanna Hoffman, <i>Coastal Sustainability Studio, LSU</i> ■ Restoration of Nitrogen Impaired Coastal Embayments Through Maximization of Natural Attenuation via Wastewater Planning Robert Musci, <i>CDM Smith</i> ■ Ramble On! Integrating Green Infrastructure in Waterfront Revitalization Plans in Laurel, Delaware Ed Lewandowski, <i>University of Delaware/Delaware Sea Grant</i> 	<p>MODERATOR:</p> <p>Megan La Peyre, <i>USGS</i></p> <ul style="list-style-type: none"> ■ Environmental Drivers of Eastern Oyster Population Dynamics in Louisiana: What Can “Bigish” Data Tell Us? Michael Lowe, <i>School of Renewable Natural Resource, LSU AgCenter</i> ■ Florida's Intertidal Oysters: Responding to Sea Level Rise and Harmful Algal Blooms Linda Walters, <i>University of Central Florida</i> ■ The Effects of Intertidal Oyster Reef Habitat Characteristics on Faunal Utilization Marc Hanke, <i>The University of Houston</i> ■ Direct Measures of Denitrification Demonstrate High Rates From Both Restored Oyster Reef and Oyster Aquaculture Sites in a New England Coastal Salt Pond Boze Hancock, <i>The Nature Conservancy</i> ■ Oyster Reef Restoration: Rebuilding Stocks and Providing Habitat Jennifer Beseres Pollack, <i>Texas A&M University-Corpus Christi</i> 	<p>MODERATOR:</p> <p>Susan C. Adamowicz, <i>USFWS</i></p> <ul style="list-style-type: none"> ■ Rhode Island South Shore Habitat and Community Resiliency Project Caitlin Chaffee, <i>Rhode Island Coastal Resources Management Council</i> ■ Tidal Salt Marsh Restoration at John H. Chafee National Wildlife Refuge, Rhode Island Jennifer D. White, <i>USFWS, Rhode Island NWR Complex</i> ■ Hurricane Sandy Resiliency Efforts at Seatuck National Wildlife Refuge: Sediment Enrichment Using Old and New Dredged Material to Increase Marsh Platform Elevation Susan C. Adamowicz <i>USFWS, Rachel Carson National Wildlife Refuge</i> ■ Multi-Criteria Decision Analysis Tools for Marsh Elevation Enhancement Projects – A Streamlined Approach to Evaluate Habitat Tradeoffs in the Face of Sea Level Rise Sam Whittin, <i>EA Engineering, Science, and Technology</i> ■ Salt Marsh Integrity: From Rapid Assessment to Management Action Toni Mikula, <i>USFWS, Rachel Carson National Wildlife Refuge</i> 		Details

10:00 am - 10:30 am Morning Coffee Break

	St. Charles Ballroom	St. James Ballroom	Jefferson Ballroom	Commerce Room	Canal Room	Camp Room
Session	<p>State Perspectives in Gulf of Mexico Restoration</p> <p>States have a critical, yet challenging, role to play in restoration and management efforts in the Gulf of Mexico. This session features presentations that highlight how states are addressing challenges while also working to achieve regional goals.</p>	<p>When Failure Leads to Success – Using an Adaptive Approach for Creating Effective Living Shoreline Projects</p> <p>Learning from project failure is critically important in adaptively managing living shoreline approaches for future success in shoreline management. This session will highlight living shoreline project failures and demonstrate to practitioners how learning from these failures can help them adaptively manage living shoreline approaches under changing site and coastal conditions.</p>	<p>Nature-Based Solutions to Reducing Flood Risk and Flood Prepared Communities</p> <p>This session will bring together government, non-profit, and insurance industry expertise to discuss the role of nature based solutions in supporting flood prepared communities. Panelists will discuss federal policy opportunities; FEMA funded conservation and restoration successes; how insurance sector risk models value nature; and lessons from on-the-ground implementation.</p>	<p>Preparing for Climate Change With a Risk-Based Approach: Lessons Learned From Casco Bay, Morro Bay, and the San Juan Bay Estuary Programs</p> <p>This session features three examples of National Estuary Programs that are creating risk-based climate change adaptation plans using the USEPA's Climate Ready Estuaries planning workbook, "Being Prepared for Climate Change: A Workbook for Developing Risk-Based Adaptation Plans."</p>	<p>Engaging Your Audience: Best Approaches in Outreach and Education</p> <p>What are the best ways to let people know about your programs and get them engaged? Learn how in this session, which will feature inspiring programs from around the world.</p>	<p>Financing the Future: Identifying Funding Options for Coastal Restoration and Adaptation Plans</p> <p>Turning restoration and adaptation plans into reality will require significant public investment, including from, local, state, and federal governments. It will also require engagement with inventors, entrepreneurs, and private investors. Our panel will examine the full menu of funding options available, highlighting sources of particular promise for further investigation.</p>
Details	<p>MODERATOR:</p> <p>Ryan Fikes, <i>National Wildlife Federation</i></p> <ul style="list-style-type: none"> ■ Innovative Funding and Partnership Efforts of the USDA NRCS in Texas Lori Ziehr, <i>USDA NRCS</i> ■ Developing the Texas Coastal Resiliency Master Plan Chris Levitz, <i>AECOM</i> ■ Gulf Oil Spill Recovery Framework in the Florida Panhandle: Leaving a Legacy Stella Wilson, <i>Dewberry</i> ■ Watershed Planning Leading to the Creation of Estuary Programs in Florida's Panhandle. Ensuring a Watershed Focus for Deepwater Horizon Related Funding Darryl Boudreau, <i>The Nature Conservancy</i> ■ Nature Based Tourism Planning for Environmental and Economic Benefit: Developing a Nature Based Tourism Plan for South Mississippi Rhonda Price, <i>Mississippi Department of Marine Resources</i> 	<p>MODERATOR:</p> <p>Matt Chasse, <i>NOAA</i></p> <ul style="list-style-type: none"> ■ Project Greenhores, Adaptive Management Translates From Project to Project, Enable Florida to Get the Most Bang for the Buck Zachary Schang, <i>Florida Department of Environmental Protection</i> ■ From Failure to Success: Adaptively Managed Living Shorelines Projects in New York and New Jersey Jon Miller, <i>Stevens Institute of Technology - NJ Sea Grant</i> ■ When Failure is Not an Option...Redefining Success! Mary Kate Brown, <i>The Nature Conservancy in Alabama</i> ■ Lessons Learned in Coastal Restoration: Bulkhead Removal and Beach Nourishment at Marine Park in Northern Puget Sound After 12 Years Jim Johannessen, <i>Coastal Geologic Services, Inc.</i> ■ Implementing "Smart" Projects that Push the Science of Shoreline Restoration to New Realms Bhaskar Subramanian, <i>Maryland Department of Natural Resources</i> 	<p>MODERATOR:</p> <p>Diane Hoskins, <i>The Pew Charitable Trusts</i></p> <ul style="list-style-type: none"> ■ Mangroves and Marshes: A Shield Against Catastrophe? Paul Wilson, <i>Risk Management Solutions, Inc.</i> ■ Successes and Challenges in Working with Local Governments to Create Long-Term Resilience Tracie Sempier, <i>Mississippi-Alabama Sea Grant</i> ■ FEMA Hazard Mitigation Programs & Floodplain Conservation Case Studies Karen Helbrecht, <i>FEMA</i> ■ Federal Policy Challenges & Opportunities: Advancing Nature-Based Solutions to Reduce Flood Risk Diane Hoskins, <i>The Pew Charitable Trusts</i> 	<p>MODERATOR:</p> <p>Michael Craghan, <i>U.S. EPA</i></p> <ul style="list-style-type: none"> ■ A Risk-Based Approach to Preparing to Climate Change Michael Craghan, <i>U.S. EPA</i> ■ Managing High Risks That Cannot be Mitigated Tammy Newcomer Johnson, <i>U.S. EPA</i> ■ Climate Vulnerability Assessment for Casco Bay, Maine Curtis Bohlen, <i>Casco Bay Estuary Partnership</i> ■ Assessing Climate Vulnerability in a Small Coastal California Community Lexie Bell, <i>Morro Bay National Estuary Program</i> ■ Climate Change Adaptation Plan for a Tropical Caribbean Estuary: The San Juan Bay Estuary Case Jorge Bauzá-Ortega, <i>San Juan Bay Estuary Program</i> 	<p>MODERATOR:</p> <p>Rani Henderson, <i>Galveston Bay Foundation</i></p> <ul style="list-style-type: none"> ■ Kids and the Coast: Teaching Environmental Restoration at the Delaware Bayshore Zachary Nickerson, <i>American Littoral Society</i> ■ Building Stewardship Through "Estuary EDventures" Katie Mastenbrook, <i>Tampa Bay Watch</i> ■ Integration of Citizen Science Programs into Management of Delaware's Inland Bays Marianne Walch, <i>Delaware Center for the Inland Bays</i> ■ Community Engagement: Assessing Public Will and Awareness of Climate Issues Ramona Madhosingh-Hector, <i>University of Florida/IFAS Extension</i> ■ We J.A.M.I.N.! Using Program-Based Learning to Inspire the Next Generation of Mangrove and Environmental Stewards in Jamaica Amy Heemsoth, <i>Khaled bin Sultan Living Oceans Foundation</i> 	<p>MODERATOR:</p> <p>Dean Boyer, <i>Tulane Institute on Water Resources Law & Policy</i></p> <p>Panelists:</p> <ul style="list-style-type: none"> ■ Dean Boyer, <i>Tulane Institute on Water Resources Law & Policy</i> ■ Jessica Zuba, <i>Texas Water Development Board</i> ■ Brad Inman, <i>U.S. Army Corps of Engineers, New Orleans District</i> ■ Leonard Shabman, <i>Resources for the Future</i> ■ Megan Terrell, <i>Governor's Office of Coastal Activities</i>

Noon - 2:00 pm Lunch on your own or get your lunch and join the Brown-Bag Lunch Session

Royal Room	Jackson Room	Magazine Room	Fulton Room	Parish Room	Newberry Room
Marshes on the Margins: Planning for Wetlands Recovery in Southern California The Southern California Wetlands Recovery Project is developing a Regional Strategy that will identify high priority areas for restoration that will provide the best opportunities for wetlands resilience in the face of sea level rise, opportunities that must be pursued if coastal wetlands are going to persist in this region.	Nutrient Reduction: Best Practices Nutrient loading profoundly impacts coastal watersheds and can be one of the hardest challenges to tackle. This session highlights efforts from around the country to collaboratively and comprehensively enact nutrient reductions strategies.	Navigating the Legal Minefield of Coastal Restoration and Adaptation This panel will examine the current state of laws that affect restoration and look towards future legal changes and their ability to help or hinder coastal work.	Oyster Reef Dynamics and Structure and Their Role in Restoration Oysters are nature's coastal builders and their creations are often frustratingly difficult to effectively mimic. This session examines varying factors of reefs and the implications for improving restoration success.	Storming Back 2: Prime Hook National Wildlife Refuge This session (second of three dedicated to Hurricane Sandy resiliency projects on National Wildlife Refuges) will discuss the background, design, permitting, implementation, and monitoring of the Prime Hook National Wildlife Refuge restoration, which represents one of the largest such restoration projects on the east coast.	Ocean Frontiers III – Green Fire's New Film on the Northeast and Mid-Atlantic Regional Ocean Plans Watch the third Ocean Frontiers film and learn about the new regional ocean plans for New England and the Mid-Atlantic. After the film hear about outreach opportunities with the film and participate in Q+A discussion with key people involved with developing the plans about why implementation is critical to sustain the ocean environment, marine livelihoods and coastal cultures.

Session

MODERATOR:	MODERATOR:	MODERATOR:	MODERATOR:	MODERATOR:	MODERATOR:
Megan Cooper, California State Coastal Conservancy <ul style="list-style-type: none"> ■ Developing a Science-Based, Management-Driven Plan for Restoring Wetlands: The Southern California Wetlands Recovery Project's Regional Strategy Carolyn Lieberman, USFWS, Coastal Program ■ Applying Regional Restoration Objectives at Specific Coastal Wetlands in Southern California Rich Ambrose, UCLA ■ Assessing Historic Change and Relative Vulnerability of Southern California Coastal Wetlands to Sea Level Rise Eric Stein, Southern California Coastal Water Research Project ■ Development of Regional Objectives for Southern California Coastal Wetlands Using Landscape-Level Metrics Jeremy Lowe, San Francisco Estuary Institute ■ Developing Science-Based Management Strategies for Intermittently Open Estuaries in Southern California John Largier, University of California at Davis, Bodega Marine Laboratory 	Adam Herges, The Mosaic Company <ul style="list-style-type: none"> ■ Nitrogen Modeling to Evaluate and Prioritize Management Strategies to Restore Suffolk County's Estuaries Daniel O'Rourke, CDM Smith ■ Upstream Impacts: A Collaborative Approach to Nutrient Load Reduction in the Midwest Brian Miller, Illinois Water Resources Center ■ Developing a Nutrient Framework for Managing and Restoring the Biological Integrity of Southwest Florida Tidal Creeks Jay Leverone, Sarasota Bay Estuary Program ■ Progress on Implementation of the Delaware Inland Bays Pollution Control Strategy: A 10 Year Review Emily Seldomridge, Delaware Center for the Inland Bays ■ An Approach for the Assessment of Nutrient Trading Potential in Watersheds of Southern Louisiana Tim Carruthers, The Water Institute of the Gulf 	Chris Dalbom, Tulane Institute on Water Resources Law & Policy Panelists: <ul style="list-style-type: none"> ■ Mark Davis, Tulane Institute on Water Resources Law & Policy ■ Elizabeth Andrews, William and Mary Law School ■ Michael Pappas, The University of Maryland Francis King, Carey School of Law ■ Robin Craig, SJ Quinney College of Law - The University of Utah ■ James Tripp, Environmental Defense Fund ■ Burke Griggs, Kansas Department of Agriculture 	Just Cebrian, Dauphin Island Sea Lab <ul style="list-style-type: none"> ■ Initial Conditions Drive Threshold Dynamics on Restored Oyster Reefs Allison Colden, Restore America's Estuaries ■ Oyster Recruitment and Biodiversity Enhancement on a Restored Intertidal Reef in Delaware Bay, NJ Capt. Alek Modjeski, American Littoral Society ■ Comparison of Oyster Populations, Shoreline Protection Service, and Site Characteristics at Seven Created Fringing Reefs in Louisiana: Key Parameters and Responses to Consider Megan La Peyre, USGS ■ Oyster Domes in a Tidal Estuary: Construction, Transportation, and Placement Using Community Volunteers Eric Plage, Tampa Bay Watch ■ Let the Oysters Do the Work: A Proposal for Creating Truly Biogenic Shorelines and Barrier Reefs Tyler Ortego, ORA Estuaries 	Bartholomew Wilson, USFWS <ul style="list-style-type: none"> ■ Prime Hook NWR Ecosystem Restoration: In the Beginning... Al Rizzo, USFWS Coastal Delaware National Wildlife Complex ■ Prime Hook NWR Restoration Implementation: Pushing Sand and Spraying Mud Bartholomew Wilson, USFWS Prime Hook National Wildlife Refuge ■ Coordination of Research and Monitoring Activities to Support the Project Design and Ongoing Evaluation of the Prime Hook Wildlife Refuge Restoration Project Robert Scarborough, Delaware Dept. of Natural Resources and Environmental Control ■ Susan Guiteras, USFWS Coastal Delaware National Wildlife Complex 	Karen Anspacher-Meyer, Green Fire Productions Panelists: <ul style="list-style-type: none"> ■ Elizabeth Semple, New Jersey Office of Coastal and Land Use Planning ■ John Hansen, West Coast Regional Planning Body ■ Nick Battista, Island Institute ■ Jenna Valente, Healthy Oceans Coalition

Details

Noon - 2:00 pm Lunch on your own or get your lunch and join the Brown-Bag Lunch Session

	St. Charles Ballroom	St. James Ballroom	Jefferson Ballroom	Commerce Room	Canal Room	Camp Room
Session	<p>Avoiding Random Acts of Restoration: An Ecosystem Services Approach for the Gulf of Mexico</p> <p>Traditional measures often fall short in evaluating the true outcomes of investments made in restoration activities. Incorporating approaches that account for the benefits to nature and people can help managers prioritize and adaptively manage restoration decisions from project siting, selection, and design to implementation and monitoring/evaluation. This dynamic, discussion-focused session will bring together leading scientists and decision makers to discuss the opportunities and challenges of operationalizing these approaches in the Gulf of Mexico.</p>	<p>Linking Forgotten Habitats in a Pacific Coast Living Shorelines Approach: Challenges and Opportunities in California</p> <p>This session will focus on the definitions, barriers, opportunities, and state of the science for using living shoreline approaches as coastal protection in California.</p>	<p>Flood Risk: How to Determine and Communicate It</p> <p>Flooding can be one of the most damaging forces on the coast, yet one that is challenging to predict and effectively convey to communities. This session explores tools, planning, and methods of communicating about flood risk.</p>	<p>The New Normal: Adapting Laws and Policies to Changing Environments</p> <p>This session will discuss the complex law and policy issues coastal communities in particular face with adopting and implementing habitat management policies and strategies and include case studies of how attorneys have assisted state and local governments with their climate adaptation efforts, as well as other management activities.</p>	<p>Unique Approaches to Education and Engagement</p> <p>It's one thing to get your message out, but a whole different effort to get people directly involved in your initiatives. This session will feature presentations describing innovative ways to engage and educate people of all ages.</p>	<p>WRRDA 2014 and ASCE Progress to Advancing P3 Delivery for Civil and Ecosystem Restoration Projects</p> <p>ASCE's Coasts, Oceans, Ports, and Rivers Institute (COPRI) has been the designated liaison between the engineering community and the Corps of Engineers regarding new authorities granted in WRRDA 2017 authorizing P3 delivery programs for Corps Civil Works projects. The session will update the attendees on key components of this innovative delivery model and progress on its implementation.</p>
Details	<p>MODERATOR:</p> <p>Heather Mannix, <i>COMPASS</i></p> <p>Panelists:</p> <ul style="list-style-type: none"> ■ David Yoskowitz, <i>Harte Research Institute, Texas A&M University – Corpus Christi</i> ■ Bryan DeAngelis, <i>The Nature Conservancy</i> ■ Alyssa Dausman, <i>Gulf Coast Ecosystem Restoration Council</i> ■ Denise Reed, <i>The Water Institute of the Gulf</i> 	<p>MODERATOR:</p> <p>Marilyn Latta, <i>California Coastal Conservancy</i></p> <ul style="list-style-type: none"> ■ Linking Forgotten Habitats in a Pacific Coast Living Shorelines Approach: Challenges and Opportunities in California Marilyn Latta, <i>California Coastal Conservancy</i> ■ Progress in Restoring Native Oysters and Eelgrass for Habitat and Shoreline Protection Katharyn Boyer, <i>San Francisco State University</i> ■ Native Oyster and Eelgrass Restoration as Living Shoreline Protection in San Diego Bay Megan Cooper, <i>State Coastal Conservancy</i> ■ Thinking Beyond Nearshore Living Shorelines in Southern California Eryan Borgnis, <i>State Coastal Conservancy</i> ■ A Novel Approach to Baylands and Sea Level Rise: Adaptation Through Horizontal Levees Donna Ball, <i>Save The Bay - San Francisco</i> 	<p>MODERATOR:</p> <p>Gary Oates, <i>ESA</i></p> <ul style="list-style-type: none"> ■ Flood Risk Management of Estuaries Under a Changing Climate: a UK Perspective Caroline Hazlewood, <i>HR Wallingford</i> ■ Planning for Future Flooding, Building a Sea-Level Rise Exposure Inventory for Oregon's Estuaries Julie Sepanik, <i>Oregon Coastal Management Program</i> ■ Sea Level Rise and Coastal Flooding Impacts Viewer in Louisiana Douglas Marcy, <i>NOAA Office for Coastal Management</i> ■ The Pontchartrain-Maurepas Surge Consortium: A Model for Regional, Collaborative Coastal Risk Management John Lopez, <i>Lake Pontchartrain Basin Foundation</i> ■ Using FEMA's Tools to Better Identify, Communicate, and Mitigate Flood Risk Krista Conner, <i>Michael Baker International</i> 	<p>MODERATOR:</p> <p>Catherine Janasie, <i>National Sea Grant Law Center, University of Mississippi School of Law</i></p> <p>Panelists:</p> <ul style="list-style-type: none"> ■ Shana Jones, <i>Carl Vinson Institute of Government, University of Georgia</i> ■ Julia Wyman, <i>Marine Affairs Institute/Rhode Island Sea Grant Legal Program</i> ■ Elizabeth Andrews, <i>Virginia Coastal Policy Center, William & Mary Law School</i> ■ Thomas Ruppert, <i>Florida Sea Grant</i> ■ Niki L. Pace, <i>Louisiana Sea Grant Law & Policy Program, Louisiana State University</i> 	<p>MODERATOR:</p> <p>Caitlyn McCrary, <i>The Baldwin Group, NOAA</i></p> <ul style="list-style-type: none"> ■ The Gulf Coast Restoration Initiative: Training and Mentoring the Next Generation of Conservationist John Hosey, <i>The Corps Network</i> ■ Restoration Through Veteran & Community Engagement in Delaware Bay, New Jersey Quinn Whitesall, <i>American Littoral Society</i> ■ Student-Led Habitat Restoration in Northwest Florida Brittany Tate, <i>Choctawhatchee Basin Alliance</i> ■ Bringing Students and Adults to Places of Awareness Through Eco-Art Workshops and Adventures via Kayak, Walking, and Vessels on the Estuaries of the Gulf Karla Klay, <i>Artist Boat</i> ■ Volunteer-Based Habitat Restoration on the Texas Coast Nathan Johnson, <i>Artist Boat</i> 	<p>MODERATOR:</p> <p>Bob Beduhn, <i>HDR Engineering, Inc.</i></p> <p>Panelists:</p> <ul style="list-style-type: none"> ■ Dennis Lambert, <i>COWI/Chair ASCE COPRI P3 Committee</i> ■ Bob Beduhn, <i>HDR Engineering Inc. & ASCE COORI P3 Committee Member</i>
	3:30 pm - 4:00 pm Afternoon Coffee Break and Refreshments					

Royal Room	Jackson Room	Magazine Room	Fulton Room	Parish Room	Newberry Room
Going With the Flow: Restoring Flow and Tidal Creeks Modification or reintroduction of water flows can be one of the most effective, and potentially tricky, methods of restoration. This session will feature approaches, tools, and lessons learned using these techniques.	Water Quality Improvements and Impacts Improving water quality throughout a watershed, whether through small-scale or large-scale efforts, can have profound effects on the downstream estuary. This session will explore tools, techniques, and programs that have made strides in improving water quality.	Enhancing State Coastal Management Programs to Improve Resilience This session will highlight how the National Coastal Zone Management Program's Coastal Zone Enhancement Program is helping states and communities improve their resilience to coastal hazards. A brief national summary will be shared along with case studies from four state coastal management programs around the county.	NOAA's Community-based Restoration Program: 20 Years in Habitat Restoration 2016 marks the 20th anniversary of the NOAA Restoration Center's Community-Based Restoration Program. This session will explore what we have learned over two decades of restoring habitat, how we have developed innovative approaches to restoration and evolved over time, and how we can effectively address emerging challenges into the future.	Storming Back 3: Wildlife Impoundments, Ditch Legacies, and Living Shorelines This session (third of three dedicated to Hurricane Sandy resiliency projects on National Wildlife Refuges) focuses on the use several different techniques to evaluate and implement restoration/resiliency techniques. Here we address wildlife impoundments, legacy effects of ditching, and living shoreline projects designed to protect adjacent salt marshes and infrastructure.	Coastal Film Series Featured Film: <i>Shored Up</i>

Session

MODERATOR: Just Cebrian, <i>Dauphin Island Sea Lab</i> <ul style="list-style-type: none"> Tidal Tributary Restoration by Modification of Salinity Control Structures in Tampa Bay, Florida Scott Deitche, <i>Greenman-Pedersen, Inc.</i> Massachusetts TIDEGateway: A New Web-Based Geospatial Tool for Planning, Assessment and Analysis of Tidal Restrictions Robert Hartzel, <i>Geosyntec Consultants</i> Connecting Coastal Waters: Hydrologic Restoration in the Northern Gulf of Mexico Jamie Schubert, <i>NOAA Restoration Center</i> Successful Swamp Restoration at the Caernarvon Freshwater Diversion and on the Maurepas Land Bridge, Southeast Louisiana Theryn Henkel, <i>Lake Pontchartrain Basin Foundation</i> Simulating Ecological Responses to Coastal Ecosystem Restoration: A Case Study of Proposed Sediment Diversion Operation on the Lower Mississippi River Melissa Baustian, <i>The Water Institute of the Gulf</i> 	MODERATOR: Gary Raulerson, <i>Tampa Bay Estuary Program</i> <ul style="list-style-type: none"> Chesapeake Bay Foundation's Brock Environmental Center: Designing for Resilience and Working in Coastal Virginia to Address Climate Change Mitigation and Adaptation Christina Everett, <i>Chesapeake Bay Foundation</i> Water Use Efficiency and Water Conservation in Region Has Tools to Protect The Health of Galveston Bay Paula Paciorek, <i>Galveston Bay Foundation</i> Ecosystem Services in Transportation Marcel Tchaou, <i>Federal Highway Administration - USDOT</i> Quantification of Microplastics at Coastal U.S. National Parks: Identifying Broad Geographic Distributions Across Varied Landscapes Anna Toline, <i>National Park Service</i> Water Quality Degradation in a Hypersaline, Lagoonal South Texas Estuary (Baffin Bay): Symptoms and Potential Causes Emily Cira, <i>Texas A&M University - Corpus Christi</i> 	MODERATOR: Hank Hodde, <i>NOAA</i> <ul style="list-style-type: none"> Addressing Priority State Coastal Management Program Coastal Hazards Needs Through the National Coastal Zone Management Program's Enhancement Grant Program Allison Castellan, <i>NOAA Office for Coastal Management</i> Developing a Coastal Resilience Planning Program in the Wake of Hurricane Sandy Nick Angarone, <i>New Jersey Department of Environmental Protection</i> Using Municipal Engagement to Increase Resiliency to Coastal Hazards: Maine's Projects of Special Merit Pete Solvinsky, <i>Maine Geological Survey</i> Planning for Adaptation: State of Florida's Perspective Sean Reiss, <i>Florida Department of Economic Opportunity</i> Increasing Resiliency in Local Louisiana Parishes: Louisiana's Resilience Enhancement Program Jon Truxillo, <i>Louisiana Department of Natural Resources Office of Coastal Management</i> 	MODERATOR: Tisa Shostik, <i>NOAA</i> <ul style="list-style-type: none"> The Community-Based Restoration Program: 20 Years in Habitat Restoration Tisa Shostik, <i>NOAA</i> Collaboration for Restoration Polly Hicks, <i>NOAA</i> Coastal Habitat Restoration, Infrastructure Improvement, and Community Resiliency in the Northeast Eric Hutchins, <i>NOAA</i> California's Salmon Strategy: Approaching Restoration and Monitoring From a Recovery Perspective Leah Mahan, <i>NOAA</i> Innovation in Coral Reef Restoration Julia Royster, <i>NOAA</i> 	MODERATOR: Toni Mikula, <i>USFWS</i> <ul style="list-style-type: none"> Coastal Impoundment Restoration on Edwin B. Forsythe National Wildlife Refuge Paul Castelli, <i>USFWS, Edwin B. Forsythe National Wildlife Refuge</i> Regional Impoundment Vulnerability Assessment Laura Mitchell, <i>U.S. Fish and Wildlife Service; Bombay Hook National Wildlife Refuge</i> Removing the Legacy Effects of Ditching While Promoting Resilience to Climate Change at Parker River National Wildlife Refuge David M. Burdick, <i>Jackson Estuarine Laboratory, University of New Hampshire</i> Living Shorelines at Chesapeake Marshland NWR Complex Mark Jaworski, <i>CH2M</i> Oyster Reef Restoration at Chincoteague National Wildlife Refuge in Virginia Kevin Holcomb, <i>USFWS Chincoteague National Wildlife Refuge Complex</i> 	<i>Shored Up</i> is a documentary that asks tough questions about coastal communities and their relationships with land and water, with special attention to work being done in Long Beach Island, New Jersey, and the Outer Banks of North Carolina.
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Details

3:30 pm - 4:00 pm Afternoon Coffee Break and Refreshments

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“You can do the best science in the world but unless emotion is involved it's not really very relevant. Conservation is based on emotion. It comes from the heart and one should never forget that.”

— George Schaller



Coastal Program



Learn more about the conservation science and heart of the Coastal Program at www.fws.gov/coastal/. And like us at www.facebook.com/coastalprogram/

	St. Charles Ballroom	St. James Ballroom	Jefferson Ballroom	Commerce Room	Canal Room	Camp Room
Session	<p>Innovative Tools and Approaches for Management and Restoration in the Gulf of Mexico</p> <p>The Gulf of Mexico faces a myriad of challenges that require a diverse and innovative suite of techniques to address them. This session highlights efforts and tools that are making a difference.</p>	<p>Living Shorelines: Lessons Learned Across the Years</p> <p>Living shorelines approaches continue to grow and evolve as practitioners and scientists learn and study them. This session explores various tools, data, and findings based on years of experience.</p>	<p>Green Infrastructure for Coastal Resilience – What Can Transportation Agencies Offer?</p> <p>Hear from a variety of perspectives about how transportation agencies can build resilience in coastal communities by implementing green infrastructure in road projects and plans. Discuss how transportation agencies and the coastal restoration community can work together to improve coastal resilience with green infrastructure solutions.</p>	<p>Challenges and Rewards of Implementing Nature-Based Solutions in New Jersey</p> <p>Experts in state coastal programs, ecological and engineering solutions, permitting, implementing, and monitoring will address the challenges and rewards of developing nature-based solutions in New Jersey. Specifically the National Fish and Wildlife Federation "Building Ecological Solutions to Coastal Community Hazards" grant will be used to highlight the process in coastal communities.</p>	<p>Getting the Word Out: Best Practices in Presenting Your Message</p> <p>Helping your constituencies understand and visualize your programs, projects, and goals is a challenging undertaking. This session will feature approaches and lessons learned you can use in your own efforts.</p>	<p>Working in the Nearshore: Policies, Planning, and Practice</p> <p>The nearshore environment is the dynamic interface where water meets land. This session highlights unique and innovative projects and approaches in this challenging zone.</p>
Details	<p>MODERATOR:</p> <p>Bob Stokes, <i>Galveston Bay Foundation</i></p> <ul style="list-style-type: none"> Offshore Oil Rig Decommissioning and Rigs-to-Reefs Programs in the Gulf of Mexico: Current Status and Strategies, and a Review of Decommissioning Cost Estimation Elena Kobrinski, <i>Harte Research Institute, Texas A&M University</i> Maintaining a Beach Through Reestablishment of Native Grasses and Salt Marshes Pete Melby, <i>Center for Sustainable Design Associates</i> Building Resilience Capacity Along the Gulf: Community and Business Sector Resilience Indices Development and Implementation Jody Thompson, <i>Auburn University Marine Center/ MASGC</i> Building Coastal Resilience in the Gulf of Mexico: New and Emerging Science and Tools Christine Shepard, <i>The Nature Conservancy</i> A Gap Analysis of Resilience Tools for the Gulf of Mexico Chris Ellis, <i>NOAA Office for Coastal Management</i> 	<p>MODERATOR:</p> <p>Melody Ray-Culp, <i>USFWS</i></p> <ul style="list-style-type: none"> Living Shorelines: The Good, The Bad, and The Ugly; Lessons Learned From Diverse Experience Designing and Implementing Them Throughout the United States Jason Doll, <i>Moffatt & Nichol</i> Mobile Bay Living Shoreline Suitability Model Christopher Boyd, <i>Troy University</i> The Challenge of Constructing and Designing Living Shoreline Projects in the Northeast Lee Weishar, <i>Woods Hole Group</i> Living Shorelines in Northern Macrotidal Environments: Are They Effective for Reducing Erosion Rates? Kirsten Ellis, <i>St. Mary's University</i> Restoring the Shore: Implementing a Living Shoreline in New Jersey Zack Royle, <i>American Littoral Society</i> 	<p>MODERATOR:</p> <p>Tina Hodges <i>Federal Highway Administration, US Department of Transportation</i></p> <ul style="list-style-type: none"> Potential of Living Shorelines Projects to Protect Transportation Infrastructure from Sea Level Rise, Storm Surge, and Erosion. Bret Webb, <i>University of South Alabama</i> Analysis of Nature-based Solutions to Lessen Flooding along Great Bay Boulevard Bari Greenfeld, <i>US Army Corps of Engineers</i> Vulnerability Analysis and Potential Coastal Green Infrastructure Solutions for Delaware Route 1 Coastal Highway LaTonya Gilliam, P.E., <i>Delaware Department of Transportation</i> Analysis of Nature-based Solutions to Mitigate Storm Surge and Wave Damage to Henderson Point Bridge in Mississippi under Future Sea Level Rise Scenarios Rachel Westerfield and Cole Farris, <i>Delaware Department of Transportation</i> Nature Conservancy Tools for Assessing the Cost Effectiveness of Natural and Nature-based Coastal Defenses Michael Beck, <i>The Nature Conservancy</i> 	<p>MODERATOR:</p> <p>Elizabeth Semple, <i>NJ DEP, Office of Coastal and Land Use Planning</i></p> <ul style="list-style-type: none"> Developing a Coastal Resilience Planning Program in the Wake of Hurricane Sandy Nick Angarone, <i>NJ DEP Office of Coastal and Land Use Planning</i> Building Ecological Solutions to Coastal Community Hazards: Guidance on Nature-based Solutions, Community Engagement and Assistance Stacy Small-Lorenz, <i>National Wildlife Federation</i> Engineering Challenges of Nature-Based Solutions Jon Miller, <i>Stevens Institute of Technology</i> The Delaware Estuary Living Shoreline Initiative: Lessons from 2008-2016 Projects Gleaned from Consistent Monitoring Danielle Kreeger, <i>The Partnership for the Delaware Estuary</i> 	<p>MODERATOR:</p> <p>Jeff DeQuattro, <i>The Nature Conservancy</i></p> <ul style="list-style-type: none"> Here, Now, Us.: Leveraging Publicly Accessible, In-Situ Augmented Reality to Foster Community Awareness of Sea Level Rise Impacts in Marin County, California Nate Kauffman, <i>OWLIZED</i> 'Aole (No) Marine Debris -- Nature- and Culture-Based Community Education in Coastal Communities Chelsey Jay, <i>Malama Learning Center</i> Getting the Public to Take the Bait: A Success Story on How Education and Partnerships Helped to Correct Entanglement and Marine Debris Issues at a Popular Fishing Pier Melinda Spall, <i>Tampa Bay Watch</i> Making the Grade: Using Report Cards to Motivate Stream Conservation in Lake Erie Coastal Watersheds Breann Hohman, <i>Erie Conservation District/Old Woman Creek NERR</i> The Galveston Bay Report Card: Using Science to Connect People to Their Estuary Lisa Gonzalez, <i>Houston Advanced Research Center</i> 	<p>MODERATOR:</p> <p>Brian Caufield, <i>CDM Smith</i></p> <ul style="list-style-type: none"> Puget Sound Nearshore Ecosystem Restoration Project (PSNERP): Reaching Beyond the Feasibility Phase Theresa Mitchell, <i>Washington Department of Fish & Wildlife</i> Muskegon Lake Wetland and Shoreline Restoration – Restoration of a Great Lakes Lacustrine Estuary Brian Majka, <i>GEI Consultants, Inc.</i> Performance of Shoreline Restoration Sites in the St. Clair-Detroit River System Kevin Keeler, <i>USGS Great Lakes Science Center</i> New Tools for Coastal Communities to Manage Dunes, Dredge, and Pollutants Rod Tyler, <i>Filtrexx International</i> Coordinating Coastal Research: Implementing an Integrated U.S. Nearshore Research Program Derek Brockbank, <i>American Shore & Beach Preservation Association</i>

6:00 pm - 9:00 pm Coastal Networking Reception

Royal Room	Jackson Room	Magazine Room	Fulton Room	Parish Room	Newberry Room
<p>Beyond Vegetation Cover: Examining the Broader Ecological Functions of Coastal Wetland Restoration in the Northern Gulf of Mexico</p> <p>In this session, we will review existing data on coastal wetland restoration in the northern Gulf of Mexico to identify trends in the development of ecological functions, project benefits associated with future restoration projects, and recommend ways to optimize wetland restoration for a variety of coastal and marine organisms.</p>	<p>Overcoming Adaptation Barriers With Boundary Organizations</p> <p>In this session, we will describe how boundary organizations are addressing some of the most challenging questions communities face in adaptation planning.</p>	<p>Forging Successful Restoration at the Ecosystem Scale: What Are the Policies, Science and Projects That Restore the Gulf of Mexico From Coast-to-Sea?</p> <p>The opportunity for restoration in the Gulf of Mexico has never been higher, however, the complexity of the ecosystem and the complicated political landscape create challenges to executing coordinated restoration. This session focuses on the key components of coordinated restoration and how like challenges were addressed in other regions.</p>	<p>State Coastal Programs Deliver Community Resilience: Lets Avoid Reinventing the Wheel with New Programs and Allow the CZMA to Realize its Potential At</p> <p>Coastal Communities often lack tools, expertise and resources to become resilient. State Coastal Programs, created through the CZMA, can deliver these needs while respecting laws and practices unique to each state. This panel will share successes that show that the CZMA has earned much greater role in national resilience strategies.</p>		<p>Coastal Film Series</p> <p>Featured Film: <i>Finding Common Ground</i></p>
<p>MODERATOR:</p> <p>Melissa Carle, <i>ERT, NOAA</i></p> <ul style="list-style-type: none"> ■ Using Meta-Analysis to Understand Recovery of Vegetation and Soils in Restored Wetlands in the Northern Gulf of Mexico Diana Lane, <i>Abt Associates</i> ■ Recovery of Ecological Function of Salt Marsh Fauna Following Habitat Restoration: Implications for Restoration Scaling in the Northern Gulf of Mexico Matthew Baumann, <i>Industrial Economics, Inc.</i> ■ Meta-Analysis of Nekton Recovery Following Marsh Restoration in the Northern Gulf of Mexico Terill Holweg, <i>Abt Associates</i> ■ Quantification of Coastal Marsh Restoration Benefits in the Northern Gulf of Mexico: Modeling the Development of Marsh Ecological Functions Gail French Fricano, <i>Industrial Economics, Inc.</i> ■ Meta-Analysis of Nekton Utilization and Production from Coastal Habitats: Implications for Restoration Project Design and Implementation Kristopher G. Benson, <i>NOAA Restoration Center</i> 	<p>MODERATOR:</p> <p>Sam Veloz, <i>Point Blue Conservation Science</i></p> <ul style="list-style-type: none"> ■ Quantifying the Role of Natural Habitat in Increasing Coastal Resilience and Protection Lisa Wedding, <i>Center For Ocean Solutions</i> ■ Our Coast Our Future: A Decision Support System for Assessing the Vulnerability of California Shorelines to Climate Change Sam Veloz, <i>Point Blue Conservation Science</i> ■ Climate-Smart Adaptation for the North-Central California Coast: Planning, Lessons Learned, and Adaptation Outcomes Sara Hutto, <i>Greater Farallones National Marine Sanctuary</i> ■ Sentinels for a More Resilient Coast: How Sentinel Sites Connect Local Sea Level Rise and Coastal Change Science to Regional Decision-Making Sarah Wilkins, <i>Chesapeake Bay Sentinel Site Cooperative</i> ■ The Stakes Are Rising: Coastal Adaptation Stakeholder Engagement in Southern California Juliette Finzi Hart, <i>USC Sea Grant</i> 	<p>MODERATOR:</p> <p>Alexis Baldera, <i>Ocean Conservancy</i></p> <ul style="list-style-type: none"> ■ Overcoming Challenges to Implementing Ecosystem Restoration in the Chesapeake Bay Across Geopolitical Boundaries, Funding Sources and Jurisdictions Kim Coble, <i>Chesapeake Bay Foundation</i> ■ Coordinating Restoration through Monitoring: Current Efforts for Facilitating a System Response Gregory Steyer, <i>USGS</i> ■ Coping With Uncertainty and Change – The Importance of Adaptive Management in a Framework for Ecosystem-Scale Restoration Robert Spies, <i>Applied Marine Sciences</i> ■ Investments in Science and Innovation: Informing and Improving Restoration Success Elizabeth Fetherson-Resch, <i>Florida RESTORE Act Centers of Excellence Program</i> ■ Putting It All Together: Supporting the Creation of a Restoration Economy Bethany Kraft, <i>Ocean Conservancy</i> 	<p>MODERATOR:</p> <p>Mary Munson, <i>Coastal States Organization</i></p> <ul style="list-style-type: none"> ■ State Coastal Programs: Let the Nation Take Advantage of a Successful Track Record Mary Munson, <i>Coastal States Organization</i> ■ Coastal Programs Build Resilience in the Great Lakes Mike Friis, <i>Coastal States Organization</i> ■ Alabama and the Guild of Mexico Alliance Demonstrate the Valuable Contribution of State Coastal Managers Phillip Hinesley, <i>Alabama Department of Conservation and Natural Resources</i> ■ Florida Coastal Communities and a Vision for Coastal Management Becky Prado, <i>Florida Coastal Office</i> ■ Creating Guidance to Promote Use of Natural Floodplains to Achieve Resilience Bradley Watson, <i>Louisiana Coastal Management Division</i> 		<p>Finding Common Ground explores communication among residents, scientists, and decision makers within the official coastal Louisiana restoration planning structure.</p>

Session

Details

6:00 pm - 9:00 pm Coastal Networking Reception

	St. Charles Ballroom	St. James Ballroom	Jefferson Ballroom	Commerce Room	Canal Room	Camp Room
Session	<p>Impacts and Recovery of the Deepwater Horizon Oil Spill to Coastal Marshes in Northern Barataria Bay, Louisiana</p> <p>This session presents the findings of a four-year multi-disciplinary investigation of the effects of various oiling scenarios on impact, recovery, and resilience of the plant-microbial-benthic ecosystem in Deepwater Horizon oil-impacted coastal marshes. We asked: How does oiling intensity affect recovery trajectories, resilience, and stability of coastal salt marshes?</p>	<p>Keeping the "Living" in Living Shorelines - Walking That Fine Line Between Shoreline Protection & Habitat Enhancement</p> <p>Tidal shorelines are dynamic natural systems which provide for a multitude of high value habitats critical to living resources. Understanding the role of shoreline erosion in the Chesapeake Bay's overall ecologic health and the role that communities play in promoting shoreline conservation is essential. This session will focus on how community involvement and the use of appropriate shore erosion control techniques is paramount to the protection, preservation, and restoration of shallow water and intertidal habitat.</p>	<p>Reducing Coastal Hazard Impacts with Nature-Based Solutions: A Tour of NOAA Resources</p> <p>This interactive session will walk attendees through a suite of new NOAA products that can help coastal managers and planners visualize their exposure to coastal flood hazards, explore the use of nature-based solutions to reduce impacts as well as protect ecosystem health, and communicate this information to local elected officials. Participants will have opportunities to rotate through five interactive product demonstrations and to discuss ideas and questions with experts.</p>	<p>Creating a Robust Scientific Framework for Supporting Water Policy and Management: An Example From Coastal Louisiana</p> <p>This session will address the need for complex well-informed decision making that is supported by comparable scientific tools by using the example of hydrologic modeling coalescing around Louisiana's developing comprehensive water code.</p>	<p>Partnering With Typically-Underserved, Faith-Based, and Urban Communities: Lessons Learned</p> <p>Working across socio-economic and cultural lines can be fraught with missteps, misunderstandings, and awkwardness, but it can also be rewarding and result in dynamic and meaningful change. Hear from people who have worked in these situations and learn valuable lessons you can put into your efforts.</p>	<p>Incorporating Ecosystem Services and Economics into Decisions and Management</p> <p>Coastal systems offer an extraordinary blend of services that can be hard to quantify in "hard" numbers. However, it is essential that they get incorporated into decisions and planning and this session will feature examples of how best to do that.</p>
Details	<p>MODERATOR:</p> <p>Irving Mendelsohn, <i>Louisiana State University</i></p> <ul style="list-style-type: none"> ■ Session Introduction and Background: Assessing Impacts of the Deepwater Horizon Oil Spill on Coastal Wetlands in Northern Barataria Bay, Louisiana Scott Zengel, <i>Research Planning, Inc.</i> ■ Vegetation Recovery of Coastal Salt Marshes Impacted by the Deepwater Horizon Oil Spill Qianxin Lin, <i>Louisiana State University</i> ■ Responses of Indigenous Microbial Communities to the Deep Water Horizon Oil Spill in Louisiana Saltmarshes: A Five-Year Study Aixin Hou, <i>Louisiana State University</i> ■ Recovery of Salt Marsh Benthic Microalgae and Meiofauna Following the Deepwater Horizon Oil Spill Linked to Recovery of <i>Spartina alterniflora</i> John W. Fleege, <i>Louisiana State University</i> ■ Long-Term Effects of Shoreline Oiling in Salt Marsh Macroinvertebrates Donald R. Deis, <i>Atkins</i> 	<p>MODERATOR:</p> <p>Kevin Smith, <i>Maryland Department of Natural Resources</i></p> <p>Panelists:</p> <ul style="list-style-type: none"> ■ Claudia Donegan, <i>Maryland Department of Natural Resources</i> ■ Albert McCullough, <i>Sustainable Science, LLC</i> ■ Rob Schnabel, <i>Chesapeake Bay Foundation</i> 	<p>MODERATOR: :</p> <p>Lauren Long, <i>The Baldwin Group, NOAA</i></p> <p>Panelists & Tool Leaders:</p> <ul style="list-style-type: none"> ■ Hank Hodde, <i>The Baldwin Group at NOAA's Office for Coastal Management</i> ■ Tashya Allen, <i>The Baldwin Group at NOAA's Office for Coastal Management</i> ■ Nate Herold, <i>NOAA's Office for Coastal Management</i> ■ Marian Hanisko, <i>The Baldwin Group at NOAA's Office for Coastal Management</i> 	<p>MODERATOR:</p> <p>Bryan Piazza, <i>The Nature Conservancy</i></p> <p>Panelists:</p> <ul style="list-style-type: none"> ■ Christopher Dalbom, <i>Tulane Institute on Water Resources Law & Policy</i> ■ Mark Davis, <i>Tulane Institute on Water Resources Law & Policy</i> ■ Michele Cutrofello-Eddy, <i>RTI International</i> ■ Clinton Willson, <i>Louisiana State University</i> ■ Ehab Meselhe, <i>The Water Institute of the Gulf</i> 	<p>MODERATOR:</p> <p>Suzanne Simon, <i>Restore America's Estuaries</i></p> <ul style="list-style-type: none"> ■ Linking Community and Ecosystem Health in Shoreline Vulnerability Studies: The Richmond Transition Zone Community Mapping Assessment Heidi Nutters, <i>San Francisco Estuary Partnership</i> ■ Community Gardens as Green Infrastructure: Strengthening Ties in Underserved Communities Ann Jurczyk, <i>Chesapeake Bay Foundation</i> ■ Engaging Faith-Based Communities in Coastal Protection Kasey Jacobs, <i>The Coastal Society</i> ■ The Challenge and Satisfaction of Addressing Community Needs in the Rapidly Changing Landscape of Coastal Louisiana Corey Miller, <i>Coalition to Restore Coastal Louisiana</i> ■ Beyond Planning and Restoration: Using Strategic Partnerships to Support, Enhance, and Expand Coastal Restoration Projects in Urban Areas Laura Bankey, <i>National Aquarium</i> 	<p>MODERATOR:</p> <p>Mark Biddle, <i>Delaware Department of Natural Resources</i></p> <ul style="list-style-type: none"> ■ The Ecological Economics of Coastal Adaptation: an Analysis of the Economic Impacts of Climate Adaptation Strategies for Southern Monterey Bay, California Kelly Leo, <i>The Nature Conservancy</i> ■ Using Ecosystem Service Valuation for Planning, Policy, and Management of Delaware's Tidal Wetlands Amanda Santoni, <i>Delaware Coastal Programs</i> ■ Looking Beyond Ecological Functions to the Value of Ecosystem Services: Incorporating Ecosystem Services into Infrastructure and Policy Decisions in the Greater Houston Region Deborah January-Beyers, <i>Houston Wilderness</i> ■ Combining Stakeholder Engagement With Valid Economic Analysis to Develop Effective Communication of the Value of Ecosystem Services Arleen O'Donnell, <i>Eastern Research Group, Inc.</i> ■ Wetland Restoration, Climate Change, and Invasive Species: Managing a Moving Target Marla J. Stelk, <i>Association of State Wetland Managers</i>
	10:00 am - 10:30 am		Morning Coffee Break			

Royal Room	Jackson Room	Magazine Room	Fulton Room	Parish Room	Newberry Room	Session
<p>Planning, Siting, and New Techniques for Marsh Restoration and Management</p> <p>Marsh restoration techniques continue to grow and evolve. This session highlights new approaches based on field testing and research, all of which will help inform your own projects and programs.</p>	<p>Transforming the Edge: Measuring and Incentivizing Waterfront Resiliency</p> <p>Transformation of waterfronts to adapt to impacts of climate change can be addressed nationwide using rating and certification programs such as WEDG, SITES® and Green Shores for Homes. Learn how these programs are designed and implemented by design professionals in New York and other cities.</p>	<p>Drones, UAVs, and More: Latest Tools and Technologies</p> <p>The evolution of technology has led to innovative uses in coastal restoration and management. This session provides some high-flying examples of how these tools can be incorporated into projects and programs.</p>	<p>SAV Management and Restoration</p> <p>One of the more unique habitats in coastal ecosystems, SAVs provide a myriad of ecosystem services. This session examines their complexity, ecosystem services, and lessons learned in their management.</p>	<p>Mitigation Policy for Coastal Watersheds and Estuaries</p> <p>The National Oceanic and Atmospheric Administration (NOAA) is scoping the development of a mitigation policy that would address issues unique, or of unique importance to, coastal and estuarine ecosystems. What mitigation issues are you encountering in your work and what issues would you like to see addressed in a mitigation policy for coasts and estuaries?</p>		
<p>MODERATOR:</p> <p>Chris Warn, ESA</p> <ul style="list-style-type: none">■ The Impact of Wetlands and Estuaries on Louisiana Port Development Joseph Berlin, AECOM■ Beneficial Reuse of Dredge Material – Great Expectations Dorina Frizzera, New Jersey Department of Environmental Protection■ Wicomico River Maintenance Dredging Thin Layer Material Placement: An Opportunity for a Blue Carbon and Coastal Resilience Pilot in the “Everglades of the Mid-Atlantic” Doug Myers, Chesapeake Bay Foundation■ Coastal Elevations Explained: How Accurate Are Your Marsh Elevations and Tidal Datums and What Does That Mean for Your Project? Galen Scott, NOAA - National Geodetic Survey■ Benefits of Marsh Terraces for Coastal Restoration in the Northern Gulf of Mexico: Review of the Evidence Mike Brasher, Gulf Coast Joint Venture / Ducks Unlimited, Inc.	<p>MODERATOR:</p> <p>Nicole Faghin, Washington Sea Grant</p> <ul style="list-style-type: none">■ Green Shores for Homes; a Non-Regulatory Approach to Encourage Living Shorelines Nicole Faghin, Washington Sea Grant■ WEDG 2.0: Enhancing Resiliency, Ecology, and Access in Waterfront Communities Roland Lewis, Waterfront Alliance■ Sustainable SITES Initiative for Resilience Danielle Pieranunzi, Lady Bird Johnson Wildflower Center at The University of Texas at Austin■ Transformational Designs of the Edge Lauren Elachi, SCAPE	<p>MODERATOR:</p> <p>Bhaskar Subramanian, Maryland Department of Natural Resources</p> <ul style="list-style-type: none">■ Using Phenology Derived from NASA Earth Observations to Monitor Marsh Conditions in Coastal Alabama in Support of the Alabama Coastal Foundation's Restoration and Conservation Initiatives Tyler Lynn, NASA DEVELOP■ Drones for Living Shoreline Design: Using Remote Sensing to Study Oyster/ Spartina Facilitation in an Era of Change R. Daniel Harris, University of Georgia■ Improving Created Wetland Function with Data From Unmanned Aerial Vehicles Mel Landry, NOAA Restoration Center■ Documenting Marsh Shoreline Erosion Over Days, Months, and a Year: The Legacy Effects of Disturbances Giovanna McClenachan, Coalition to Restore Coastal Louisiana■ ShoreZone Coastal Habitat Imagery and Mapping Cindy Hartmann Moore, National Marine Fisheries Service	<p>MODERATOR: :</p> <p>Rick Harter, Ecology and Environment, Inc.</p> <ul style="list-style-type: none">■ Comanagement of U.S. Marine Protected Areas: Current Efforts and Their Implications for Seagrass Management at Fishers Island, New York Chantal Collier, The Nature Conservancy■ Gulf of Mexico Estuarine “Blue Carbon” Storage, Sequestration, and Flux with Implications for Coastal Wetlands Restoration, Climate Change, Adaptation and Resilience Protection Anitra Thorhaug, Yale University■ The Influence of Floating and Submerged Aquatic Vegetation Habitat Complexity on Nekton Abundance and Diversity in Coastal Louisiana Kelly Darnell, The Water Institute of the Gulf■ Drawing the Map of Submerged Aquatic Vegetation in the Northern Gulf of Mexico: Distribution Patterns Across Levels of Exposure and Marsh Vegetation Zones Kristin DeMarco, Louisiana State University	<p>MODERATOR:</p> <p>Susan-Marie Stedman, NOAA</p> <ul style="list-style-type: none">■ Mitigation Policy for Coastal Watersheds and Estuaries Susan-Marie Stedman, NOAA National Marine Fisheries Service		
10:00 am - 10:30 am Morning Coffee Break						Details

	St. Charles Ballroom	St. James Ballroom	Jefferson Ballroom	Commerce Room	Canal Room	Camp Room
Session	<p>Deepwater Horizon Oil Spill Impacts to Coastal Wildlife, Fish Populations, and Wetlands in Barataria Bay, Louisiana</p> <p>Barataria Bay, LA was one area that was heavily oiled during the Deepwater Horizon oil spill. This session will highlight research results from studies that focus on the impact of oiling to coastal wildlife, fish populations, and wetlands in Barataria Bay, LA. There will also be a panel discussion to assess overall health of Barataria Bay and identifying research gaps and potential partnerships moving forward.</p>	<p>Permitting a Living Shoreline: Changes on the Horizon?</p> <p>This session will bring together expertise at the federal, regional, and state level to discuss the ins and outs of living shoreline permitting, including hot items like the reauthorization of Nationwide Permits and their impacts to living shoreline projects.</p>	<p>Dissecting “Wicked Problems” to Understand Choices: “Dangerous Goods” Movement Within the Great Lakes Basin & Coastal Waters</p> <p>This session is designed to discuss grappling with a wicked problem, the transportation of dangerous goods through the Great Lakes basin. The presentation will identify issue elements and tools for managing complexity and discuss how to effectively engage the public and stakeholders in complex policy issues.</p>	<p>Tackling Large-Scale and Multi-Habitat Restoration and Management: Tools and Lessons Learned</p> <p>In many cases, projects and programs do not solely focus on one habitat. Increasingly, efforts are aiming to make meaningful change on a large scale across multiple habitats. This session features speakers who will describe their efforts from around the world.</p>	<p>Engaging Citizens and Political Leaders: Science as a Catalyst for Involvement and Change</p> <p>Getting wet and muddy is often the entry point for turning interested community members into advocates, who can then carry your organization's message to those in leadership. This session features a series of presentations examining and exploring the best way to do just that.</p>	<p>Looking Back to Inform the Future: What History Can Teach Us</p> <p>History often provides valuable lessons and insights as to be the best path into the future. This session features a dynamic series of presentations and provide historical context for the future of coastal restoration and management.</p>
Details	<p>MODERATOR:</p> <p>Larissa Graham, <i>Mississippi-Alabama Sea Grant</i></p> <p>Panelists:</p> <ul style="list-style-type: none"> Marsh Health from before the BP Oil Spill to 2015 R. Eugene Turner, <i>Louisiana State University</i> Foodweb Impacts of Macondo Oil in the Marsh: Indications of Recovery Linda Hooper-Bui, <i>Louisiana State University</i> The Reproductive, Developmental, and Early Life Stage Impacts of Marine Oil Spills in an Aquatic Vertebrate Model Fernando Galvez, <i>Louisiana State University</i> Immediate and Long-term Impacts of the Deepwater Horizon Oil Spill on Common Bottlenose Dolphins (<i>Tursiops truncatus</i>) in Barataria Bay, Louisiana Lori Schwacke, <i>NOAA</i> <p>Following the presentations, there will be a panel discussion that will include the preceding Barataria Bay session presenters.</p>	<p>MODERATOR:</p> <p>Niki Pace, <i>Louisiana Sea Grant Law & Policy Program, Louisiana State University</i></p> <ul style="list-style-type: none"> NWP Reauthorization and NWP 13 Bill Sapp, <i>Southern Environmental Law Center</i> Nationwide Permits and Living Shorelines Diane Hoskins, <i>The Pew Charitable Trusts</i> North Carolina's Regional General Permit Todd Miller, <i>North Carolina Coastal Federation</i> Maryland's Living Shorelines Act Jonathan Stewart, <i>Maryland Department of Natural Resources</i> Local Opportunities to Encourage Living Shorelines Niki Pace, <i>Louisiana Sea Grant Law & Policy Program, Louisiana State University</i> 	<p>MODERATOR:</p> <p>Katherine Bunting-Howarth, <i>New York Sea Grant/ Cornell Cooperative Extension</i></p> <ul style="list-style-type: none"> Crude Oil Transportation as a “Wicked Problem” Dale Bergeron, <i>Minnesota Sea Grant, University of Minnesota</i> The Legal and Policy Framework Governing the Movement of Crude Oil Through the Great Lakes Region Cathy Janasie, <i>National Sea Grant Law Center</i> Risk and Transportation of Crude Oil in the Great Lakes-St. Lawrence River Region Michele Leduc-Lapierre, <i>Great Lakes Commission</i> Crude Calculations: Understanding How Economic Evaluation Can Inform Crude Oil Transport Choices Margaret Schneemann, <i>University of Illinois Illinois-Indiana Sea Grant (IISG) Program</i> Stakeholder Engagement in a Wicked World-Concept Mapping Rochelle Sturtevant, <i>Great Lakes Environmental Research Laboratory</i> 	<p>MODERATOR:</p> <p>Leo Lentsch, <i>ICF International</i></p> <ul style="list-style-type: none"> Creating Resilient Habitats and Communities on Delaware Bay Shane Godshall, <i>American Littoral Society</i> Representing and Modelling Coastal and Estuarine Morphology on a Regional Scale for Coastal Management James Sutherland, <i>HR Wallingford</i> Great Lakes Coastal Wetlands: Upper Midwest and Great Lakes Landscape Conservation Cooperative Launches Colossal Collaboration to Benefit Fish, Wildlife, and People Christie Deloria, <i>USFWS</i> Small-Scale Features Can Have Large-Scale, Long-Term Implications: Get to Know Your Site Based on Experiences at Milford Neck Conservation Area Wetland Restoration, Kent County, Delaware Robert Hamilton, <i>Woods Hole Group</i> NOAA's Habitat Focus Areas: Where Are They Now? Alex Atkinson, <i>NOAA Office of Habitat Conservation</i> 	<p>MODERATOR:</p> <p>Courtney Lewis, <i>Restore America's Estuaries</i></p> <ul style="list-style-type: none"> Citizen Science and Unique Partners: Solutions to Identifying Water Quality Concerns in a Hypersaline South Texas Bay Rae Mooney, <i>Coastal Bend Bays & Estuaries Program</i> Coastal Restoration as a Method for Engaging Community Members Chelle King, <i>Patricia and Phillip Frost Museum of Science</i> Using the Right Outreach Techniques to Revitalize Stalled Restoration Progress, and Turn Rural Coastal Communities into Active Restoration Partners, Volunteers, Fundraisers, and Climate-Smart Management Supporters Kate Bimrose, <i>Greater Farallones Association</i> Your Creek Initiative: Connecting People and Communities to Their Creek Sally Boswell, <i>Delaware Center for the Inland Bays</i> Telling a Local Story: Thematic, State-Based Roundtables with Congressional District Staffers Stephanie Dunten, <i>National Weather Service</i> 	<p>MODERATOR:</p> <p>Mo Lynch, <i>VIMS</i></p> <ul style="list-style-type: none"> Great Laurentian Spring Redux: Lessons From the Great Lakes Governance Regime 1968-93 John Coon, <i>Law Offices of John R Coon</i> Network Governance and Shifting Patterns of Intergovernmental Relations: The History of Water Pollution Control in the Narragansett Bay Watershed Donald D. Robadue Jr., <i>UNC - Wilmington</i> Interaction of Law and Geology to Predict Future Ownership and Location of Coastlines in Changing Landscapes Due to Both Natural and Anthropogenic Causes Kelly Haggart, <i>Riparian, Inc.</i> Audubon's 1837 Environmental Change Hypothesis: Postcards From Eden Richard Condrey, <i>Baton Rouge Audubon Society</i>

Noon - 1:30 pm Lunch on your own

Royal Room	Jackson Room	Magazine Room	Fulton Room	Parish Room	Newberry Room
<p>Optimizing Success in Estuarine Tidal Marsh Restoration Using Nutrient Rich Dredged Material: The Poplar Island Experience</p> <p>This session will focus on lessons learned from the large-scale tidal marsh restoration at Poplar Island using fine grained, nutrient rich dredged material from Chesapeake Bay. Many aspects are considered, including permitting, design, interagency cooperation, adaptive management, monitoring (water quality, vegetation, elevation, wildlife and habitat usage), and disease response.</p>	<p>Swimming Against the Current: Challenges and Opportunities for Fish Habitat Restoration and Management</p> <p>Fish are an iconic and visible symbol of the success of a given project, program, or policy. This session highlights how restoration and management decisions are being made to affect fish populations and the habitat they need.</p>	<p>A Coastal Resilience Journey: Connecting the Dots in the San Diego Region</p> <p>This session will highlight components of San Diego's region-wide effort to develop and implement coastal resilience strategies, including: unique models for innovative collaboration between local governments, the development of a Regional Scientific Advisory Committee to connect science to local policies, and the usage of living shorelines as climate adaptation strategies.</p>	<p>It's for the Birds - and That's a Good Thing</p> <p>Restoration and management through the lens of a keystone species – in this case, birds – can be a very effective tool, not only in terms of the on-the-ground efforts, but also for communicating its importance. This session features projects and efforts directed at bird populations and the resources they require.</p>		<p>Coastal Film Series</p> <p>Featured Film: <i>Water Like Stone</i></p>
<p>MODERATOR:</p> <p>Lorie Staver, <i>University of Maryland Center for Environmental Science</i></p> <ul style="list-style-type: none"> ■ The Paul S. Sarbanes Ecosystem Restoration Project at Poplar Island: How it Began, Where it is Going, and the Interagency Cooperation That Makes it Happen Holly Miller, <i>Maryland Port Administration</i> ■ The Paul S. Sarbanes Ecosystem Restoration Project at Poplar Island: Adaptive Management and Habitat Design, There is No Such Thing as a Mistake, Only Learning Michelle Osborn, <i>Maryland Environmental Service</i> ■ Wildlife Management at the Paul S. Sarbanes Ecosystem Restoration Project at Poplar Island Peter McGowan, <i>USFWS, Chesapeake Field Office</i> ■ The Biogeochemistry of Wetland Soils Derived From Fine-Grained Estuarine Sediments Jeffrey Cornwell, <i>University of Maryland Center for Environmental Science</i> ■ Optimizing Resilience in Tidal Marshes Created With Fine-grained Dredged Material in Upper-Chesapeake Bay J. Court Stevenson <i>University of Maryland Center for Environmental Science</i> 	<p>MODERATOR:</p> <p>Gwen MacDonald, <i>Save the Sound</i></p> <ul style="list-style-type: none"> ■ More than 17,000 Stream Barriers and Counting: Making Informed Decisions About Removing Stream Barriers Jed Wright, <i>USFWS</i> ■ Wreck Pond Brook Watershed: Restoring Connectivity and Habitat Quality for River Herring and American Eel in a Coastal Watershed in Monmouth County, New Jersey Jenna Krug, <i>American Littoral Society</i> ■ Large-Scale Tidal Wetland Restoration in the Sacramento-San Joaquin Delta of California: How Will Delta Smelt Respond? Stacy Sherman, <i>California Department of Fish and Wildlife</i> ■ Lessons Learned About Coordinating a Collaborative and Adaptive Habitat Restoration Initiative James Boase, <i>USFWS</i> ■ Making Way for Aquaculture: Expanding Opportunities in Coastal Communities Through Collaborative Partnerships, Coordinated Permitting, and "Tools for Rules" Susan Bunsick, <i>NOAA Fisheries Office of Aquaculture</i> 	<p>MODERATOR:</p> <p>Danielle Boudreau, <i>Tijuana River National Estuarine Research Reserve</i></p> <ul style="list-style-type: none"> ■ Supporting Regional Coastal Resilience and Science-Based Solutions Hank Hodde, <i>NOAA Office for Coastal Management</i> ■ Building Community Resilience From the Ground Up: The San Diego Regional Climate Collaborative's Role as a Catalyst for Coastal Adaptation Laura Engeman, <i>San Diego Regional Climate Collaborative</i> ■ Achieving Natural and Community Resilience in the City of Carlsbad Mike Grim, <i>City of Carlsbad</i> ■ Climate Science Alliance-South Coast: Planting the Seeds for Innovative Partnerships Amber Pairis, <i>Climate Science Alliance - South Coast</i> ■ Climate Resilient Communities and Living Shorelines Danielle Boudreau, <i>Tijuana River National Estuarine Research Reserve</i> 	<p>MODERATOR:</p> <p>Elsa Carlisle Schwartz, <i>Restore America's Estuaries</i></p> <ul style="list-style-type: none"> ■ When All the Pieces Come Together – The First Post-Sandy Horseshoe Crab Beach Restoration Project Bill Shadel, <i>SHADEL Environmental</i> ■ Examining Public Willingness toward Conservation of the Aransas-Wood Buffalo Whooping Cranes (<i>Grus americana</i>) Wintering on the Texas Gulf Coast Denise Blanchard, <i>Texas State University</i> ■ Shoreline Habitat Demonstration and Restoration for the Endangered Piping Plover in Northern Michigan Dawn Marsh, <i>USFWS</i> ■ Permanent Protection for Strategic Wisconsin Lake Superior Basin Brook Trout and Migratory Bird Habitat Ted Koehler, <i>USFWS - Coastal Program</i> ■ Breakwaters to Protect Eroding Islands and Conserve Living Shorelines Ann Paul, <i>Audubon Florida</i> 		<p><i>Water Like Stone</i> is a portrait of a Louisiana fishing village situated outside the levee protection system, and the human toll of environmental and economic decay.</p>
					Session
					Details

Noon - 1:30 pm

Lunch on your own

	St. Charles Ballroom	St. James Ballroom	Jefferson Ballroom	Commerce Room	Canal Room	Camp Room
Session	<p>Using Data and Tools to Develop Restoration and Management Goals in the Gulf of Mexico</p> <p>Innovative and unique tools, datasets, and approaches are being developed to more effectively study and manage resources in the Gulf of Mexico. This session highlights five of these efforts.</p>	<p>Different Sites, Different Goals, Different Approaches: Best Practices for Living Shorelines</p> <p>Every living shoreline project must be uniquely designed and implemented for the given site. To do otherwise invites failure. This session explores the role of different aspects and considerations when using these techniques.</p>	<p>Implementing a Natural Layered Protection Project: Living Breakwaters Case Study</p> <p>Developed as part of HUD's Rebuild by Design Competition, the winning Living Breakwaters project will reduce risk, revive ecologies, and connect educators to the south shore of Staten Island, NY. This session will include a panel conversation and roundtable breakout session with the players currently working to build the Living Breakwaters and associated landside improvements along the southern coast of Staten Island.</p>	<p>Charting a Path for the Future of Estuarine Management: Using the National Estuarine Research Reserve System as a Platform</p> <p>This session will include five brief, dynamic presentations about efforts that the National Estuarine Research Reserve System has taken and is taking to chart a path for the future of estuarine management, specifically in the areas of programmatic and geographic expansion of the reserve system. These presentations will set the stage for an audience participation on the best ways to implement and socialize strategies under development.</p>	<p>Meeting the Needs of a Changing Climate: Working Together to Coastal Resilience and Health</p> <p>Managing competing needs in the coastal zone is challenging. This session explores various policies and projects aimed at balancing resources and demands.</p>	<p>Rethinking Coastal Restoration Advocacy: Using an Interdisciplinary Approach to Address Louisiana's Land Loss Crisis</p> <p>Louisiana has been facing a land loss crisis for decades – nearly 1,900 square miles since the 1930s. Now that the state has both a comprehensive restoration plan and substantial, dedicated funding coming, the likelihood of seeing meaningful restoration has never been higher. The challenges have also never been greater. This coalition-based, interdisciplinary panel will discuss how our unique team of experts is working to address the many issues involved in complex, large-scale ecosystem restoration.</p>
Details	<p>MODERATOR:</p> <p>Tom Brosnan, NOAA</p> <ul style="list-style-type: none"> Establishing Explicit Biological Objectives to Guide Strategic Habitat Conservation for the Gulf Coast: Case Study With the Brown Pelican John Tirpak, USFWS Restoring Marine Life Comprehensively Across Political Boundaries Matt Love, Ocean Conservancy Using AQUATOX 3.1 NME to Maximize Restoration Priorities for Natural Resources Injured by the Deepwater Horizon Oil Release Don Blancher, Moffatt & Nichol Classification of an Estuary in Southeastern Louisiana into Benthic Ecozones with a Comparison of Benthic Invertebrate Assemblages to Historic Hypoxia Locations Patrick Smith, Lake Pontchartrain Basin Foundation 	<p>MODERATOR:</p> <p>Tom Ries, <i>Scheda Ecological Associates</i></p> <ul style="list-style-type: none"> Engineering a "Shore" Thing for Living Shoreline Projects that Require Nearshore Structures Kari Servold, <i>Dewberry Engineers, Inc.</i> Shoreline Stabilization Along the Delaware River Using Wave Attenuation Devices Ryan Rupprecht, <i>Cardno</i> Restoration of the Erosion-Impacted and Storm-Vulnerable Northern Tip of Mon Louis Island, Mobile County, AL Tom Herder, <i>Mobile Bay National Estuary Program</i> Lessons Learned: Evolving Living Shoreline Techniques in a Florida Panhandle Estuary Rachel Gwin, <i>Choctawhatchee Basin Alliance</i> Erosion Control and Temporal Analysis of Living Shoreline Projects in North Carolina Mariko Polk, <i>University of North Carolina Wilmington</i> 	<p>MODERATOR:</p> <p>Tom Jost, <i>WSP Parsons Brinckerhoff</i></p> <p>Panelists:</p> <ul style="list-style-type: none"> Pippa Brashear, <i>SCAPE</i> Pete Malinowski, <i>NY Harbor School</i> Kate Orff, <i>SCAPE</i> Gena Wirth, <i>SCAPE</i> Alex Zablocki, <i>NYS Governor's Office of Storm Recovery</i> 	<p>MODERATOR:</p> <p>Erica Seiden, NOAA</p> <p>Panelists:</p> <ul style="list-style-type: none"> Michael De Luca, <i>Rutgers University</i> Mary Culver, NOAA Ginger Hinchcliff, NOAA Dwight Trueblood, NOAA Rebecca Roth, NOAA 	<p>MODERATOR: :</p> <p>Lewie Lawrence, <i>Middle Peninsula Planning District Commission</i></p> <ul style="list-style-type: none"> A Changing Chesapeake Bay: A New Paradigm for Stakeholder Engagement Lucinda Power, <i>U.S. EPA Chesapeake Bay Program Office</i> Coastal and Marine Management From the Bottom Up: Developing Peer-to-Peer Networks and Building Capacity for Planning and Managing Sustainable Tourism Operations in Marine Protected Areas Anne Nelson, <i>NOAA MPA Center International MPA Capacity Building Team</i> The U.S. Army Corps of Engineers Resilience Initiative: History of the Initiative and Direction for the Future Emily Vuxton, <i>U.S. Army Corps of Engineers</i> Site-Scale Coastal Resiliency Planning and Design Considerations for Climate Change Adaptation Ed Morgereth, <i>Biohabitats, Inc.</i> Building Resiliency Through the Action-Oriented Stakeholder Engagement for a Resilient Tomorrow (ASERT) Framework Michelle Covi, <i>ODU/Virginia Sea Grant</i> 	<p>MODERATOR:</p> <p>Estelle Robichaux, <i>Environmental Defense Fund</i></p> <p>Panelists:</p> <ul style="list-style-type: none"> Theryn Henkel, <i>Lake Pontchartrain Basin Foundation</i> Erik Johnson, <i>National Audubon Society</i> Simone Maloz, <i>Restore or Retreat</i> Amanda Moore, <i>National Wildlife Federation</i> Estelle Robichaux, <i>Environmental Defense Fund</i> Elizabeth Van Cleve, <i>Environmental Defense Fund</i>
	3:00 pm - 3:30 pm Afternoon Coffee Break and Refreshments					

Royal Room	Jackson Room	Magazine Room	Fulton Room	Parish Room	Newberry Room
<p>Getting the Details Right in Marsh Restoration: Learning Through Experience</p> <p>Marsh restoration is one of the most widespread undertakings but, because of the diversity of conditions, often difficult to get just right. Come hear experts share their lessons learned through decades of on-the-ground marsh restoration efforts.</p>	<p>Building Social and Ecological Resilience in U.S. and Abroad: Integrating Disciplines, Partners, and Actions</p> <p>The proposed session will explore how to build social and ecological resilience. It will use a combination of short presentations that examine URI-CRC experience from the U.S. and abroad and a "cafe style" work-session where the participants will discuss a number of questions related to the concept of resilience. The participants will share and critique techniques and strategies for building social and ecological resilience and identify indicators of resilience that incorporate local ecological knowledge.</p>	<p>Righting a Wrong: Damage Assessment and Mitigation in a Restoration and Management Context</p> <p>Addressing negative impacts to habitats is a complicated process full of legal and policy implications on the front end, and on-the-ground issues in its implementation. This session explores various approaches and lessons learned.</p>			<p>Coastal Film Series</p> <p>Featured Film: <i>New Jersey's Hidden Coast</i></p>
<p>MODERATOR:</p> <p>Linda Shead, <i>Shed Conservation Solutions</i></p> <ul style="list-style-type: none"> ■ Performance of the Recently Constructed Kilchis Wetlands Preserve Tidal Wetland Restoration Project – Storm Resilience Now, Climate Change Resilience for the Future Curtis Loeb, <i>Environmental Science Associates</i> ■ Restoration of a Salt Marsh in Nueces Bay, Texas Rosario Martinez, <i>Coastal Bend Bays & Estuaries Program</i> ■ LaBranche Marsh Creation Pilot Project; Using Actual Field Results to Augment Geotechnical Investigations Michael Nichols, <i>Natural Resources Conservation Service</i> ■ Bridging Between Science and Implementation of Restoration Projects in a Changing Climate Cameron Perry, <i>HDR Engineering, Inc.</i> 	<p>MODERATOR: :</p> <p>Elin Torell, <i>University of Rhode Island Coastal Resources Center</i></p> <ul style="list-style-type: none"> ■ Resiliency Through Offshore Renewable Energy: Rhode Island's Block Island Wind Farm. Tiffany Smythe, <i>The University of Rhode Island Coastal Resources Center</i> ■ Organizational Resiliency: National Park Service's Assessment of Coastal Parks to Climate Change Glenn Ricci and Pam Rubinoff, <i>The University of Rhode Island Coastal Resources Center</i> ■ Resiliency Through Rights-Based Shellfish Management Planning in The Gambia. Karen Kent, <i>The University of Rhode Island Coastal Resources Center</i> 	<p>MODERATOR:</p> <p>Debbie DeVore, <i>USFWS</i></p> <ul style="list-style-type: none"> ■ Large-Scale and Privately Funded Fresh-Intermediate Marsh Creation in the Barataria-Terrebonne Estuary Utilizing Dredge Material from the Mississippi River to Offset Regional Wetland Impacts Worth Creech, <i>Restoration Systems</i> ■ Artificial Reef Enhancement as Mitigation for Potential Impact Due to Subsea Pipeline Installation, Rockaway, New York Steven MacLeod, <i>Ecology & Environment, Inc.</i> ■ Opportunities and Constraints for Mitigating the Environmental Effects of an Abandoned Highway Embankment Fill at Rumney Marsh in Revere and Saugus, Massachusetts Edward Reiner, <i>U.S. EPA</i> 			<p>Discover New Jersey's "other" coastline, a Hidden Coast, the Delaware Bayshore. This film explores the Bay's systems, challenges, and what people are doing to rebuild in the aftermath of Hurricane Sandy."</p>

Session

Details

3:00 pm - 3:30 pm Afternoon Coffee Break and Refreshments

Summit Details



Closing Plenary Session

Changing Tides: What the New Congress and Administration Mean for Advancing Coastal Restoration and Management – Ruminations From Dery's Place

3:30 pm – 5:00 pm
Grand Ballroom B

Introduction

Jonathan Stone, *Executive Director, Save The Bay – Narragansett Bay and Board Chair, Restore America's Estuaries*

Despite the pressing need to ensure our coasts and estuaries are healthy and resilient now and in the future, our political leaders have yet to make the necessary commitments to restore, conserve, and protect them for the long-term. Moreover, recent turmoil within political parties and the most recent elections will likely impact, for better or for worse, our ability to make

progress. A new Administration brings new challenges and new opportunities. How will the new Congress and Administration respond to the need for increased investment in restoration and protection? What progress do we expect toward national climate change policy and regulation? What will be the most effective advocacy and communications strategies? This panel discussion will draw on the experiences of politically astute and experienced leaders in coastal conservation, communications, and climate change policy to help us navigate new uncharted political waters. The setting will be a fictional watering hole – Dery's Place – named in honor of Dery Bennett, former Executive Director of the American Littoral Society, who was a mentor to a generation of environmentalists and an inspirational leader of the coastal environmental movement.



Moderator: Mark Davis, *Director, Tulane Institute on Water Resources Law and Policy*

Mark Davis is a Senior Research Fellow at Tulane University Law School and Director of the Institute on Water Resources Law and Policy at the Law School. Prior to starting the Institute he served 14 years as the Executive Director of the Coalition to Restore Coastal Louisiana where he was extensively involved in shaping laws, policies and programs at the state and federal level dealing with the restoration and stewardship of coastal ecosystems. He also practiced law in Washington, DC, Indianapolis, and Chicago. He has been an adjunct professor at IIT Chicago Kent School of Law and Indiana University's School of Business in Indianapolis. He has a JD, with honors, from Indiana University and an MLT from the Georgetown University Law Center. He is a member of the bar in Louisiana, Illinois, the District of Columbia, and Indiana. Mr. Davis has written and lectured widely on matters related to coastal and water resource management and has testified before White House and Congressional panels on numerous occasions. He has been recognized for his work with a Louisiana Legend Award from the Louisiana Environmental Action Network and an Environmental Hero award from the National Oceanic and Atmospheric Administration.



Jessica Grannis, *Adaptation Program Manager, Georgetown Climate Center at Georgetown Law*

Jessica Grannis is the Adaptation Program Manager for the Georgetown Climate Center and a staff attorney and adjunct professor at the Harrison Institute, at Georgetown University Law Center. She supervises students and staff and works directly with state and local government officials on projects to help them adapt to climate change. Her recent publications include a book chapter on Coastal Retreat in the Law of Adaptation to Climate Change: U.S. and International Aspects (2012, with Peter Byrne) and an Adaptation Tool Kit for Sea Level Rise (2012). Prior to joining the Climate Center, she was staff counsel for the California State Coastal Conservancy and the Ocean Protection Council.

Summit Details

Closing Plenary Session



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Kristen Grimm, *Founder and President, Spitfire Strategies*

Kristen Grimm is the founder and president of Spitfire Strategies. She has extensive experience conceiving, implementing and managing smart programs that create lasting social change. She has helped hundreds of

nonprofits and foundations develop winning communication and campaign strategies to spur action around some of today's most pressing problems – and inspire many more people to get involved. She has reformed, reframed and re-imagined critical issues ranging from restoring the Gulf of Mexico after the BP oil spill to protecting Americans' online privacy rights to making sure all kids have access to a good education, nutritious food and quality health care. She enjoys teaching others the tricks of her trade and helping them reach those a-ha moments that give oomph to their communication and campaign efforts. She loves creating messages and master narratives that resonate – especially when the good guys use them to shut down their opposition and the naysayers. She thinks fast in a crisis, is deft at drawing phenomenal visionary speech out of nonprofit leaders and is someone you want in your corner when you're ready to go big.



David Lewis, *Executive Director, Save The Bay - San Francisco Bay*

David Lewis has been Executive Director of Save The Bay since 1998 and San Francisco Bay's top advocate for more than 15 years. Under his leadership, Save The Bay has developed strong relationships with public officials,

business leaders, and key stakeholders to improve the overall health of San Francisco Bay. David has testified before Congress on oil spill prevention and restoring Bay wetlands to combat the impacts of climate change. He was born and raised in the Bay Area, holds a B.A. in Politics and American Studies from Princeton University, and is still trying to catch up to his daughters on the ski slopes.



Lynn Scarlett, *Managing Director of Public Policy and Global Climate Strategy Lead, The Nature Conservancy*

Lynn Scarlett is global Managing Director of Public Policy at The Nature Conservancy and the Global Climate Strategy Lead. From 2005 to January 2009, she served as the Deputy Secretary

and Chief Operating Officer of the U.S. Department of the Interior, a post she took on after 4 years as the Department's Assistant Secretary for Policy, Management and Budget. She served as Acting Secretary of the Department in 2006. Ms. Scarlett initiated the Department's Cooperative Conservation Task Force in 2002 and chaired the Department's Climate Change Task Force. She chairs NOAA's Science Advisory Board and co-chairs the Landscape Conservation Cooperatives Council of the US government. She also co-chairs the National Academy of Sciences Sustainability Roundtable. She was Co-convening Lead Author of the Decision Support Chapter of the 2014 National Climate Assessment (U.S.). She is the author or co-author of recent publications on climate change adaptation; urban greening; large landscape conservation; offshore oil issues; science and decision making; and ecosystem services. She received her B.A. and M.A. in political science from the University of California, Santa Barbara, where she also completed her Ph.D. coursework and exams in political science.

Twitter Ambassadors:

- Elizabeth Van Cleve, Communications Manager, Ecosystems, Environmental Defense Fund, @LizVanCleve
 - Kasey Jacobs, Partnership & Communications Coordinator, Caribbean Landscape Conservation Cooperative, @KaseyRJacobs
-

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Summit Details

Thursday Workshops & Trainings



Living Shorelines Workshop

Jefferson Ballroom

8:30 am – 3:00 pm

Pre-registration is required / \$35, lunch included

This workshop will be an exploration of living shorelines opportunities and lessons learned, with a demonstration and exploration of the Living Shorelines Academy. Living shorelines experts will walk attendees through the entire project development and implementation process. The costs for this workshop are partially supported under an assistance agreement with the U.S. Environmental Protection Agency.

Workshop Leads:

- Rachel Gittman, Northeastern University
- Bill Sapp, Southern Environmental Law Center
- Tracy Skrabal, North Carolina Coastal Federation
- Lee Anne Wilde, Galveston Bay Foundation
- Tood Woodard, Samish Indian Nation



Application of Quality Assurance and Quality Control Principles to Ecological Restoration

Commerce Room

8:30 am – 4:30 pm

Pre-registration is required / \$75, lunch included

The purpose of this training course is to provide ecological restoration professionals with information and tools to help them improve the quality of their data collected for projects during planning, implementation, and assessment activities. The course consists of four sessions addressing the following topics:

1. Establishing quality objectives
2. Achieving quality objectives
3. Assessing data quality
4. Incorporating quality principles into adaptive management

Each session will begin with an explanation of quality principles and how they apply to ecological restoration data collection activities. Examples and tools will be provided from various restoration projects conducted in and around the Great Lakes and other regions. Participants will then work in groups to address case studies where they can apply the principles learned and a class discussion will follow. A unique aspect of this workshop will be an emphasis on QA/QC for the collection of observational data common to ecological restoration projects. This workshop has been developed by the Interagency Ecological Restoration Quality Committee composed of restoration professionals with quality assurance expertise from six federal agencies.



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Sea Level Rise and Coastal Flood Web Tools Workshop

Canal Room

9:00 am – Noon

Pre-registration is required / Free

Climate Central, NOAA, and TNC will each present their latest sea level rise and coastal flood web tools. These screening-level web tools, available for most U.S. coastal states, and other regions, allow users to assess the potential impacts their communities face from coastal flooding, land subsidence, sea level rise, and more. Each presentation will be followed by a Q&A session and discussion.

Workshop Facilitators:

- Doug Marcy, Office for Coastal Management, NOAA
- Laura Flessner, Global Oceans Team, The Nature Conservancy
- Tim Grandia, Program on Sea Level Rise, Climate Central

Climate Central's Surging Seas Web Tools

Climate Central built Surging Seas Risk Finder and Risk Zone Map to help communities, planners, and leaders better understand and communicate sea level rise and coastal flood risks. These public web tools are being utilized by a range of stakeholders, including municipal and county planners to inform their resiliency planning efforts and vulnerability assessments – and as a communications tool. The web tool provides an interactive map, sea level and flood risk projections, analysis of over 100 demographic, economic, infrastructure and environmental variables, community comparisons, downloadable data, and local reports. The web tools can be accessed at <http://sealevel.climatecentral.org/>

NOAA's Sea Level Rise and Coastal Flooding Impacts Viewer

Being able to visualize potential impacts from coastal flooding, land subsidence, and sea level rise is a powerful teaching and planning tool. The Sea Level Rise and Coastal Flooding Impacts Viewer brings this capability to coastal communities. The purpose of this viewer is to provide coastal managers and scientists with a preliminary look at coastal flooding and sea level rise impacts. The viewer is a screening-level tool that uses nationally consistent data sets and analyses. Data, maps, and map services provided can be used at several scales to help gauge trends and prioritize actions for different sea level and flooding scenarios. The tool is presented in a web mapping application format and can be accessed at coast.noaa.gov/digitalcoast/tools/slr.

Summit Details

Thursday Workshops & Training



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TNC's Coastal Resilience Web Tool and Approach

Coastal Resilience is a global network of practitioners who are applying an approach and an innovative web-mapping tool designed to help communities understand their vulnerability from coastal hazards, reduce their risk, and determine the value of nature-based solutions.



Managing Invasive Species in Coastal Wetland Restoration Projects: A Participatory Workshop to Identify Trends, Innovative Approaches, and Research Needs

Magazine Room

8:30 am – 4:00 pm

Pre-registration is suggested, walk-ins allowed if space is available / \$25

Workshop Speakers:

- Ronald Paille; Senior Field Biologist; U.S. Fish and Wildlife Service
- Wendy Anderson; Assistant Program Manager; Certified Wildlife Biologist; APHIS National Feral Swine Damage Management Program; USDA/APHIS/Wildlife Services
- Myra Price; Environmental Protection Specialist; U.S. EPA / Office of Water
- Jeanne Christie; Executive Director; Association of State Wetland Managers
- Marla Stelk; Policy Analyst; Association of State Wetland Managers

The goal of this workshop is to: evaluate current best practices for addressing invasive species in the context of coastal wetland restoration; share new trends and innovative approaches; and develop a list of research and training needs to increase the capacity of practitioners to proactively manage invasive species under a changing climate. Participants will benefit from peer to peer sharing and will brainstorm ways to prepare for and manage future shifts in invasive species distribution and proliferation.

Concerns about the impacts of climate change and biodiversity loss have heightened the interest in the benefits of wetland restoration. It is now widely recognized that wetlands provide many benefits that are needed to mitigate and adapt to climate change, such as flood attenuation, wildlife habitat, and carbon sequestration, and this reality is fundamentally altering the discussion about why we should preserve and restore them. However, wetlands are also vulnerable to climate change. As temperature and precipitation patterns change, landscapes, including wetlands, will respond. The ability of plants and

wildlife to adapt to these changes will be variable, so the extent and composition of wetlands are likely to change as well. The plants and animals, as well as hydrology and soil condition that currently exist on a spot on the landscape may not be suited to that site in the future. This may result in the spread of more invasive species and/or a need to reevaluate “native” species. Rising sea levels will inundate coastal wetlands and shift habitats upslope and inland, where there are no barriers such as towns, houses, roads, and railroad lines. In areas where barriers exist and prohibit marsh migration, wetlands may be lost.

Many scientists agree that climate change is accelerating the spread of invasive species because of the rate of change, resource scarcity, and increased competition among native fauna and flora. Many native species may not be able to adapt to changed conditions as rapidly as more generalist invasive species, leaving them at a greater disadvantage for survivorship. However, the challenges that invasive species pose are also highly variable from one species to another. Some invasives are not dominant and, although present, not really a problem. Others form dense monocultures or prey aggressively on other desirable wildlife or plants. In some places, endangered species have become dependent on invasives because native plants are no longer present. In others, invasives are apparently preying on undesirable species and supporting wetland restoration. Evaluation of allowing versus eradicating invasives must include an assessment of the consequences of the presence of invasive species with any unintended consequences of invasive species control measures. Adaptive management plans are needed to guide wetland restoration efforts to respond to changes in temperature and precipitation and achieve appropriate project goals. Future conditions and difficult trade-offs on a watershed and regional scale will have to be considered in restoration management plans in order to maximize benefits for communities, ecosystems and the economy.

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Poster Presentations



The Poster Hall features posters grouped into the following categories: Science, Technology, and Practice (STP); Outreach, Education, and Engagement (OEE); and Policy, Planning, and Funding (PPF). For poster abstracts please use the app at <http://rae-tcs-summit.org/mobile>.

The Poster Hall is sponsored by:



Science, Technology, and Practice (STP)

- | | |
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| STP1
<i>Blue Carbon Accumulation Potential and Microbial Diversity in Created Salt Marshes of the Chenier Plain, Louisiana</i>
Katherine Abbott, Louisiana State University | STP9
<i>Best Management Practices Verification: The Chesapeake Bay Program's Basin-Wide Framework for Strengthening Confidence in Reported Implementation</i>
David Wood, Chesapeake Research Consortium |
| STP2
<i>A Long-Term Performance Review of Industrial Stormwater Active Treatment at Facilities Discharging to San Francisco Bay, Galveston Bay, Puget Sound, and Columbia River Watersheds</i>
TJ Mothersbaugh, WaterTectonics | STP10
<i>From Marsh to Mangrove: How do Vegetation Shifts in Coastal Louisiana Affect Species Composition, Trophic Dynamics and Carbon Flow in Estuarine Food Webs?</i>
Christina Powell, Department of Oceanography and Coastal Sciences, Louisiana State University |
| STP3
<i>From Foodwebs to Marshes: Assessing Carbon Sources and Benefits Within the Nisqually River Delta in Puget Sound, Washington</i>
Isa Woo, USGS, Western Ecological Research Center | STP11
<i>Gulf of Mexico Blue Carbon Estimates From Seagrass, Mangrove, Marsh Ecosystems Derivation Versus Riverine and Shelf Carbon Inputs</i>
Anitra Thorhaug, Yale University |
| STP4
<i>Mapping Blue Carbon in South Slough National Estuarine Research Reserve Using ShoreZone</i>
Cindy Hartmann Moore, Coastal and Ocean Resources | STP12
<i>Two Thousand Years of Salt Marsh Development, Carbon Stock, and Accumulation Rates in the Delaware Bay Tidal Salt Marshes</i>
Beatrice O'Hara, West Chester University of Pennsylvania |
| STP6
<i>Fate of Soil Organic Carbon During Wetland Loss</i>
Sarah Mack, Tierra Resources | STP13
<i>Hydrologic Effects of a Tidal Barrier on a Texas Salt Marsh</i>
Thomas Huff, Texas A&M University |
| STP7
<i>Greenhouse Gas Fluxes Across More Than a 100-fold Nitrogen Gradient in Coastal Wetlands</i>
Katelyn Szura, University of Rhode Island | STP14
<i>Construction and Preliminary Assessment of a Coastal Floodplain Reconnection and Channel Incision Reversal Project on Butano Creek, San Mateo County, California</i>
John Klochak, USFWS San Francisco Area Coastal Program |
| STP8
<i>The Interdependency of Blue Carbon: Processes Beyond Vegetation</i>
Angela Martin, Blue Climate Solutions | STP15
<i>Quantifying Flocculation Settling Dynamics of Natural Fine-Grained Suspended Sediments: "Floccin' Across the USA!"</i>
Andrew Manning, HR Wallingford |

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STP16 *The Physics of Dredged Material Placement Within Nearshore Waters, as Observed by Crab*

Jarod Norton, USACE Portland District

STP17 *Integrated Strategy for Beneficial Use of Dredged Material in Great Lakes Commercial Ports*

Michael Polich, Great Lakes Commission

STP18 *Alternate Approaches to Monitoring the Response of Sediment Load in Coastal Rivers to Mitigation Strategies*

John Stamm, USGS

STP19 *Implementing Small Dredge Technology as an Effective Countermeasure to Marsh Deterioration and Fragmentation*

Karen Westphal, National Audubon Society

STP20 *The Restoration of Two Ecologically and Economically Important Coastal Lagoons in Southern Rhode Island: Baseline Data Collection and Analysis*

Sean Duffey, Rhode Island Coastal Resources Management Council

STP21 *The Dynamical Equilibrium of the Safety Valve Between Biscayne Bay and the Florida Strait*

Ulf Erlingsson, Lindorm, Inc.

STP22 *Management Strategies for Increasing Resilience on the Developed Misquamicut Barrier and the Undeveloped Quonochontaug Barrier in Westerly, Rhode Island Following Post-Tropical Storm Sandy*

Janet Freedman, Coastal Resources Management Council



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STP23 *Quantifying Coastal Blue Carbon Stocks in Vegetation and Soils of Mangroves, Salt Marshes, and Salt Barrens in Tampa Bay, Florida*

Ryan Moyer, Florida Fish and Wildlife Conservation Commission

STP24 *TE-118 East Timbalier Barrier Island Restoration Project – A Case of Engineering With Nature*

Julia Wall, Coastal Protection and Restoration Authority

STP25 *A Collaborative Approach to Characterizing Sand and Gravel Deposits Using Multibeam Sonar in the Gulf of Maine*

Claire Enterline, Maine Coastal Program

STP26 *Dune Management Challenges on Developed Coasts: American Shore and Beach Preservation Association's 2015 Workshop*

Brian Caufield, CDM Smith/American Shore and Beach Preservation Association

STP27 *Competitive Mechanisms of Festuca rubra on Native Leymus mollis and Invasive Ammophila arenaria in Coastal Sand Dunes of USA*

Daniel Pingel, USDA NRCS

STP28 *Decision Rules of Blue Crab Callinectes sapidus Movement in Wind-Driven Systems and Implications for Adaptive Management of the Fishery in Coastal North Carolina*

Julia Chen, Duke University Marine Lab

STP29 *Spatial Framework to Assess Economic and Ecological Impacts of Derelict Fishing Gear: Chesapeake Bay Crab Pot Pilot Project*

Chris Jeffrey, CSS-Dynamac

STP30 *U.S. EPA's Trash Free Waters Program*

Douglas Jacobson, U.S. EPA Region 6

STP31 *Regenerative Stream Channel Replaces a Mill Dam to Serve as a Nature-Like Fish Passageway While Maintaining the Existing Pond*

Roman Jesien, Maryland Coastal Bays Program

STP32 *Wreck Pond Brook Watershed: Restoring Connectivity and Habitat Quality for River Herring and American Eel in a Coastal Watershed in Monmouth County, New Jersey*

Jenna Krug, American Littoral Society

STP33 *Peconic River Connectivity Restoration: Lessons Learned While Restoring Diadromous Fish Habitat*

Sarah Schaefer, Peconic Estuary Program, NYSDEC

STP34 *Examining Fish and Amphibian Response Trajectories in Reconnected Coastal Floodplains in the Chesapeake Bay Region*

Kirk Mantay, South River Federation

STP35 *Mapping Atlantic Sturgeon Critical Habitat in Chesapeake Bay Tributaries*

David Bruce, NOAA Chesapeake Bay Office, Cooperative Oxford Laboratory

STP36 *Identifying and Understanding Nursery Habitats for Exploited Penaeid Shrimp to Inform Habitat Rehabilitation*

Matt Taylor, Port Stephens Fisheries Institute

STP37 *Island Management for Waterbirds in the Maryland Coastal Bays*

Roman Jesien, Maryland Coastal Bays Program

STP38 *Monitoring and Mapping Avian Resources Over the Great Lakes to Support Management*

Michele Leduc-Lapierre, Great Lakes Commission

STP39 *Evaluating the Effects of Avicennia germinans Range Expansion on Eastern Shoreline Bird Communities Along the East Coast of Florida*

Michelle Shaffer, University of Central Florida

STP40 *Increasing the Resilience of Micronesian Mangroves: A Pilot Project on Pohnpei Island in the Federated States of Micronesia*

Chris Swenson, USFWS

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Claudia Teutli-Hernández, CINVESTAV-IPN, Unidad Merida
- STP42** *Growth and Succession of Mangroves Across Three Created Florida Wetlands of Differing Age*
Jeannine Lessmann, Eckerd College
- STP43** *Enhancing and Restoring Coral Reefs and Mangroves for Coastal Defence: A Hybrid Solution Case Study from Grenada*
Nealla R. S. Frederick, The Nature Conservancy
- STP44** *A New Artificial Reef Design and Partnerships Towards Coral Reef Restoration*
Peter Gayle, University West Indies - Discovery Bay Marine Lab
- STP45** *Demonstrating the Use of Livings Shorelines as an Alternate to Bulkheads for Private Landowners*
Jacob Blandford, The Nature Conservancy
- STP46** *Indiana Coastal Zone Ecosystem Service Valuation*
Margaret Schneemann, Illinois Indiana Sea Grant
- STP47** *Gandy's Beach Living Shoreline Project*
Katie Conrad, USFWS
- STP48** *LEAP: Live Edge Adaptation Project / Envisioning a Living Infrastructure for Future Shorelines*
Nate Kauffman, LEAP: Live Edge Adaptation Project

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STP49 *Restoring Resiliency to Puget Sound Shorelines*
Jay Krienitz, Washington Department of Fish and Wildlife

STP50 *Living Shorelines Along the Georgia Coast*
Benjamin Maher, Georgia Department of Natural Resources, Coastal Resources Division

STP51 *Advancing Coastal Resilience: An Institutional Analysis of Living Shorelines in New Hampshire*
Trevor Mattera, University of New Hampshire

STP52 *Examining Shoreline Change and the Impact of a Novel Shoreline Protection Structure at the Brunswick Town/Fort Anderson State Historic Site, Lower Cape Fear River*
Kelsey Potlock, University of North Carolina Wilmington

STP53 *Comparing the Effectiveness of Armoring Techniques in Protecting the Eroding Coastlines of Augustine Cove, Prince Edward Island, Canada*
Andrew MacDonald, University of Prince Edward Island, Climate Research Lab

STP54 *The Role of Stakeholder Values and Norms in Selecting Ecosystem Services Associated With Living Shorelines Restoration*
Lauren Josephs, University of Rhode Island

STP55 *Nearshore Fish Community Responses to Shoreline Types in Lake Erie*
Martin Simonson, University of Toledo - Lake Erie Center

STP56 *Salt Marsh Restoration Through Living Shoreline*
David Grunden, Town of Oak Bluffs - Shellfish Department

STP57 *A Goal-Based Scientific Monitoring Framework to Gauge Living Shoreline Outcomes*
Sarah Bouboulis, Partnership for the Delaware Estuary

STP58 *Celebrating Healthy Marshes and Educating About Living Shorelines in South Carolina*
Joy Brown, The Nature Conservancy - South Carolina

STP59 *Connecting With Waterfront Landowners: Communicating Sustainable Marine Shoreline Design Options*
Theresa Mitchell, Washington Department of Fish and Wildlife

STP60 *Addressing Homeowner Misperceptions About the Effectiveness, Durability, and Cost of Hardened Shorelines: An Analysis of Hurricane Damage in North Carolina*
Carter Smith, University of North Carolina at Chapel Hill's Institute of Marine Sciences

STP61 *Oyster Reef Restoration at Chincoteague National Wildlife Refuge in Virginia*
Kevin Holcomb, USFWS

STP62 *Use of Reef Balls on Living Shorelines, Best Practices*
Jim McFarlane, Reef Ball Foundation / Reef Innovations

STP63 *Floating Oyster Cages and Wetlands as an Alternative Bulkhead Bio-Enhancement Strategy*
Andrew McGowan, Delaware Center for the Inland Bays

STP64 *A GIS Decision Support Tool for Living Shoreline Suitability*
Marcia Berman, Virginia Institute of Marine Science

STP65 *On-Line Decision Support Tools to Promote Nature-Based Solutions for Enhanced Coastal Resiliency*
Richard Lathrop, Rutgers University

STP66 *Siting Plan and Concept Designs for Living Shoreline Demonstration Projects on the Inland Bays*
Marianne Walch, Delaware Center for the Inland Bays

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- STP67** *Mapping Resilience Planning and Implementation in New Jersey's Coastal Communities*
Elizabeth Semple, NJDEP, Office of Coastal and Land Use Planning
- STP68** *Mapping Shoreline Change to Inform Coastal Restoration Projects*
Elizabeth Semple, NJDEP, Office of Coastal and Land Use Planning
- STP69** *Looking Back Over 10 Years of Tidal Wetland Restoration in Nova Scotia, Canada*
Tony Bowron, CB Wetlands & Environmental Specialists, Inc.
- STP70** *Small Habitat Restoration in an Urban Landscape Within North Mission Bay, San Diego, California*
Carolyn Lieberman, USFWS
- STP71** *What do Skaggs Island and Sagrada Familia Have in Common?*
Renee Spent, Ducks Unlimited, Inc.
- STP72** *USDA NRCS Texas: Coastal Restoration and Partnerships Efforts Along the Texas Coast*
Scott Alford, USDA NRCS
- STP73** *Impacts of Runaway Transgression on Back Barrier Marsh Ecosystems*
Kathryn Norman, George Washington University
- STP74** *Restoring and Sustaining Ecological Function in Coastal Marshes Affected by Sea Level Rise*
Damarys Acevedo-Mackey, U.S. Army Engineer Research and Development Center (ERDC)
- STP75** *Estuarine Wetland Loss and Change Due to Natural and Anthropogenic Forces Over Time Along the Delaware Coast: Tracking Future Loss and Change*
Mark Biddle, Delaware Department of Natural Resources and Environmental Control
- STP76** *Testing a Novel Adaptation Strategy in a California Salt Marsh*
Evyann Borgnis, State Coastal Conservancy
- STP77** *Maximizing Adaptive Capacity and Ecosystem Services: A GIS-Based Approach to Managed Realignment*
Jennie Graham, CBWES, Inc.
- STP78** *Salt-Marsh Loss During Rising Sea Levels, a Change Analysis From Parramore and Cedar Islands, Virginia, 1957-2012*
Julie Sepanik, Oregon Coastal Management Program/George Mason University
- STP79** *Anthropogenic and Climate Change Impacts on Tidal Wetlands and Fisheries in the Chesapeake Bay*
Kara Skipper, Chesapeake Research Consortium
- STP80** *Dynamic Surface Elevation Controls on Wetland Submergence and Migration*
Donald Cahoon, USGS
- STP81** *Long-Term Reference Data in New Jersey Coastal Marshes: Perspectives on Elevation Dynamics and Thin Layer Placement*
LeeAnn Haaf, Partnership for the Delaware Estuary
- STP82** *Vegetation Bias Correction in Tidal Salt Marsh Lidar Data Sets with Artificial Neural Networks*
Laura Mitchell, USFWS
- STP83** *Monitoring Thin-Layer Sediment Application for Sea-Level Rise Adaptation in a Southern California Tidal Marsh*
Karen Thorne, USGS
- STP84** *Microphytobenthos Response to an Exceptional Drought in a Northwestern Gulf of Mexico Brackish Marsh*
Katie Bowers, Texas A&M University at Galveston
- STP85** *Using Renewable Mississippi River Sediment to Create Marshes in Louisiana: The Bayou Dupont Projects*
Patricia Taylor, U.S. EPA Region 6

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Donald Deis, Atkins North America

STP87 *Philippine Manila Trench Earthquake's Tsunami Menace to Pearl River Delta of South China*
Shuisen Chen, Guangzhou Institute of Geography

STP88 *Can Salt Marshes Survive Feral Hog Disturbance? Assessing the Distribution of, and Ecosystem Resilience to, Feral Hog Disturbance in the Southeastern U.S. Salt Marshes*
Sean Sharp, University of Florida

STP89 *Partnering to Leverage Scale in Coastal Wetland Monitoring – South Atlantic Geography Approach*
Nicole Rankin, USFWS

STP90 *Effects of Marsh Platform Slope, Sediment Type, Sea-Level Rise, and Initial Planting Density on Nutrient Retention in a Restored Marsh*
Nigel Temple, Mississippi State University

STP91 *The Cape May Plant Materials Center-Developing Plant Technologies for Coastal Ecosystem Restoration*
Christopher Miller, USDA-NRCS, Cape May Plant Materials Center

STP92 *Vegetative Releases for Beach, Marsh, and Estuary Restoration in South Louisiana*
Garret Thomassie, USDA NRCS Golden Meadow Plant Materials Center

STP93 *Coastal Habitat Restoration on Edwin B. Forsythe National Wildlife Refuge*
Paul Castelli, USFWS

STP94 *Salt Marsh Integrity: From Rapid Assessment to Management Action*
Toni Mikula, USFWS

STP95 *Tidal Salt Marsh Restoration at John H. Chafee National Wildlife Refuge, Rhode Island*
Jennifer D. White, USFWS, Rhode Island NWR Complex

STP96 *Field and Modeling Studies of Salt Marshes in Bombay Hook National Wildlife Refuge in Delaware*
Susan Guiteras, USFWS, Coastal Delaware NWR Complex

STP97 *Development of *Spartina spartinae* Lines for Improved Seed Production and Viability for Restoration Along the Gulf Coast*
Curt Riché, USDA/NRCS

STP98 *Developing a Collaborative Regional Approach to Invasive *Phragmites australis* Management, Research, and Restoration in the Great Lakes Basin*
Elaine Ferrier, Great Lakes Commission

STP99 *Bringing Ocean Acidification Home: Connecting Regional Stakeholders to Information Through the Northeast Coastal Acidification Network*
Elizabeth Turner, NOAA National Ocean Service

STP100 *The Effect of Invasive Species Management on Post Hurricane Recovery Patterns in a Louisiana bottomland forest*
John Lambrinos, Oregon State University

STP101 *Invasive Treatment Effect on Avian Abundance in a Bottomland Hardwood Forest*
Katie Brasted, Woodlands Conservancy

STP102 *Texas' Estuarine Bottlenose Dolphins: Addressing Knowledge Gaps in Galveston Bay*
Kristi Fazioli, Environmental Institute of Houston - University of Houston Clear Lake

STP103 *An Update on Deepwater Horizon Natural Resource Damage Assessment Ecological Restoration Projects in Coastal Alabama*
Carl Ferraro, Alabama Dept. of Cons. & Natural Resource, State Lands Division

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Renee Collini, Northern Gulf of Mexico Sentinel Site Cooperative
- STPI05** *Partnering to Meet the Challenges of Sea Level Rise: NOAA's San Francisco Bay and Outer Coast Sentinel Site Cooperative*
Jenna Judge, NOAA San Francisco Bay and Outer Coast Sentinel Site Cooperative
- STPI06** *Napatree Point Conservation Area, Rhode Island: A Demonstration Site for Natural Coastal Ecosystem Resilience*
Nicole E. Rohr, Coastal Institute at the University of Rhode Island
- STPI07** *Seagrass Restoration Large-Scale Successes in Gulf of Mexico Multi-Decadal Sustainability: Texas, Florida: Endangered Species and Fisheries Reassembly, Carbon Sequestration, Sediment Stabilization*
Anitra Thorhaug, Greater Caribbean Energy and Environment Foundation
- STPI08** *Mapping and Monitoring Aquatic Vegetation in Lake Erie for Grass Carp Risk Assessment*
Nicole King, University of Toledo Lake Erie Center
- STPI09** *Protecting Seagrass Using Conservation Moorings in New England: Successes, Challenges, and Lessons Learned*
Lisa Havel, Atlantic Coastal Fish Habitat Partnership
- STPI10** *Effects of Extraction *Lessonia trabeculata* and the Need to Create a Program of Restoration of Kelp Forests in Northern Chile*
Luis Figueroa-Fabrega, Instituto de Fomento Pesquero
- STPI11** *Repopulation of *Loxechinus albus* (echinoderm - Echinoidea) in Coastal Areas of Northern Chile: Trends and Prospects in the Short-Term*
Luis Figueroa-Fabrega, Instituto de Fomento Pesquero
- STPI12** *Diurnal Tidal Response to *Halophila johnsonii* Physiology in a Riverine Versus Marine Influenced Habitat*
Amanda Kahn, University of North Carolina Wilmington
- STPI13** *Perspectives on Emerging Water Quality Monitoring Technologies: Understanding Factors That Affect Technology Adoption in Coastal Management*
Nelle D'Aversa, University of Rhode Island
- STPI14** *The Influence of Freshwater Inflow on the Occurrence of Atlantic Rangia and Water Celery Within the Trinity River Delta, Galveston Bay, Texas*
George Guillen, Environmental Institute of Houston, University of Houston Clear Lake
- STPI15** *The Influence of Freshwater Inflow on Water Quality and Nekton Communities of the Brazos River Estuary, Texas.*
George Guillen, Environmental Institute of Houston, University of Houston Clear Lake
- STPI16** *Changing Dynamics of Water Quality and Nutrient Monitoring Through the Use of Long Term Unattended Deployments, Real Time Data Delivery and Real Time Data Quality Flags*
Nichole Halsey, Sea-Bird Coastal
- STPI17** *Effect of Salinity on Food Webs in Breton Sound and Barataria Bay, Northern Gulf of Mexico*
Linda Hooper-Bui, Louisiana State University
- STPI18** *National Parks, Seashores, and Lakeshores: How Animal Agriculture is Affecting America's Best Idea*
Emily Jones, National Parks Conservation Association
- STPI19** *The Coon Creek Riparian Buffer and Nutrient Offset Mitigation Project, Granville County, North Carolina*
Lawrence Malizzi, OBG

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STPI20 *Quantitative and Spatial Analysis of Relationships Between Gamefish Communities and Water Quality Parameters in Lake Worth Lagoon, Florida*
Manuel McIlroy, Florida Atlantic University

STPI21 *Nutrient Retention in Restored Streams and Rivers: A Global Review and Synthesis*
Tamara Newcomer Johnson, U.S. EPA

STPI22 *Use of Water Quality to Prioritize Maryland's Coastal Streams for Restoration*
Amanda Poskaitis, Maryland Coastal Bays Program

STPI23 *Testing the Succession of Marine Invertebrates on Various Settlement Plates*
Naysha Angelucci, New Jersey City University

STPI24 *Application of Seabed Mapping Surveys and Other Spatial Data for Planning Large-Scale Oyster Restoration in the Chesapeake Bay*
Stephanie Westby, NOAA Fisheries

STPI25 *Assessment and Monitoring of Hardbottom and Potential Oyster Areas in Barataria Bay, Louisiana*
Angelina Freeman, Louisiana Coastal Protection and Restoration

STPI26 *Improving Oyster Reef Restoration Via Restoration Suitability Modeling Within the Guana Tolomato Matanzas National Estuary Research Reserve*
Stephanie Garvis, University of Central Florida

STPI27 *The Influence of Habitat Setting on *Panopeus simpsoni* Reproductive Output*
Robert Laroche, University of Houston

STPI28 *Development of a Novel Ephemeral Substrate to Create Robust Oyster Reefs and Saltmarsh Habitat in living Shoreline Projects*
Niels Lindquist, UNC Chapel Hill Institute of Marine Sciences

STPI29 *Constructing Oyster Castle Reefs for Increased Resilience at Chincoteague National Wildlife Refuge*
Bowdoin Lusk, The Nature Conservancy

STPI30 *The Effects of Invertebrate Colonization on Water Flow Around Pier Pilings: Implications on Homeland Security*
Kaylee Saltos, New Jersey City University

STPI31 *3D Reefs: Do They Work in the Chesapeake Bay?*
Karl Willey, Chesapeake Bay Foundation

STPI32 *R/V Patricia Campbell Oyster Restoration Vessel*
Karl Willey, Chesapeake Bay Foundation

STPI33 *Restaurants to Reefs – The Galveston Bay Foundation's Oyster Shell Recycling Program*
Haille Carter, Galveston Bay Foundation

STPI34 *Ecosystem Services Associated With Restored Submerged Aquatic Vegetation (SAV) and Oyster Beds in the Chesapeake Bay*
Elliott Campbell, Maryland Department of Natural Resources

STPI35 *Advancing Science-Based Monitoring That Incorporates Citizen Involvement for Oyster Habitat Restoration Projects*
Anne Birch, The Nature Conservancy

STPI36 *Engaged Communities: Using Multiple Strategies to Keep Stakeholders Informed and Involved in Oyster Restoration Efforts in North Carolina*
Michelle Clower, North Carolina Coastal Federation

STPI37 *The Bay is Our Oyster: Oyster Recovery Partnership's Role in Large-Scale Oyster Restoration in the Maryland Portion of the Chesapeake Bay*
Emily French, Oyster Recovery Partnership

STPI38 *Billion Oyster Project: Restoration, Education, and Collecting Shells in New York City*
Peter Malinowski, New York Harbor Foundation

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Mus Mokrech, Environmental Institute of Houston/University of Houston Clear Lake
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Christine Gallagher, NOAA's National Geodetic Survey
- STPI41** *Analysis of Goose Point, Lacombe, Louisiana, Validates New Geophysical Data Type - Natural Source Electromagnetic Method - for Detection of Lineaments, Faults, Sedimentary Features*
Kathy Haggard, Dynamic Measurement, LLC
- STPI42** *ShoreZone Imagery and Mapping Data Covering Approximately 75,000 Miles at Your Fingertips*
Cindy Hartmann Moore, National Marine Fisheries Service
- STPI43** *Science-Based Shoreline Restoration Assessment and Conceptual Design in West Bay, Olympia, Washington*
Joel Darnell, Environmental Science Associates
- STPI44** *Taking Our Data to the Next Step: Using ESRI Story Maps to Share Success Stories of Data Application in the Maryland Coastal Zone*
Kimberly Hernandez, Maryland Department of Natural Resources Chesapeake and Coastal Service
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Andy Lanier, Oregon Coastal Management Program
- STPI46** *Estuary Data Mapper: A Coastal Information System to Propel Emerging Science and Inform Environmental Management Decisions*
Daniel Torre, U.S. EPA ORD AED
- STPI47** *Offshore Video Survey and Oceanographic Analysis: Georges Bank to the Chesapeake*
Sally McGee, The Nature Conservancy
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Rachel Edwards, Harte Research Institute
- STPI49** *The Oases and the Climate Change in Morocco: Unique Development Model*
Adil Said, Water, Forestry, and Desertification Depart
- STPI50** *The Coastal Zone Soil Survey (CZSS) Initiative*
Robert Tunstead, USDA NRCS
- STPI51** *The U.S. EPA's Efforts to Restore Louisiana Barrier Islands: A Historical Perspective and Current Status*
Patricia Taylor, U.S. EPA Region 6
- STPI52** *Biological and Geochemical Responses to Anthropogenic Activities Along the Coastal Areas of Matagorda and Brazoria Counties, Texas*
Khalifa Elderbak, ALS Oil & Gas
- STPI53** *Using Deepwater Horizon National Fish and Wildlife Foundation Funding to Restore "Stop the Bleeding" in the Sediment-Impacted D'Olive Creek Watershed*
Tom Herder, Mobile Bay National Estuary Program
- STPI54** *Historical Distribution and Current Condition of Oyster Habitats in China*
Qing Liu, The Nature Conservancy
- STPI55** *Shoreline Protection on Martin National Wildlife Refuge, a Chesapeake Bay Marsh Island*
Matt Whitbeck, U.S. Fish and Wildlife Service
- STPI56** *Evaluating Aquatic Life Benefits of Reducing Nutrient Loading to Remediate Episodic and Diel Cycling Hypoxia in a Shallow Hypereutrophic Estuary*
Ames Hagy, U.S. Environmental Protection Agency

Outreach, Education, and Engagement (OEE)

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| OEE1 | <i>"It takes an Island!" Communicating Climate Change in the Commonwealth of the Northern Mariana Islands</i>
Ariele Baker, CNMI Bureau of Environmental and Coastal Quality | OEE11 | <i>What Does It Take to Save Lands on a Barrier Island? Learn From the Formation of the Coastal Heritage Preserve How Conservation Can Happen</i>
Karla Klay, Artist Boat |
| OEE2 | <i>Watch the Delta Grow: Combining Scientific Research and Outreach Focused on the Wax Lake Delta to Create a Web-Based Educational Program</i>
Pamela Blanchard, Louisiana State University | OEE12 | <i>Project SIT (Seawall Interpretive Trail). Creating a Public Art Work on the Galveston Island Seawall Interpreting the Island's, the Gulf's, and the Bay's Natural Wonders</i>
Karla Klay, Artist Boat |
| OEE3 | <i>You're More Connected Than You Think: Promoting Public Awareness in Galveston Bay</i>
Cynthia Clevenger, Galveston Bay Estuary Program | OEE13 | <i>Citizen Science-Driven Surveys of Monarch Butterflies in Coastal South Carolina Reveal Potential New Priorities for Future Conservation Efforts</i>
Christopher Hernandez, USFWS |
| OEE4 | <i>Outreach and Education at The Nature Conservancy's Virginia Coast Reserve: Engaging a Rural Community in Coastal Resiliency and Habitat Restoration</i>
Jennifer Davis, The Nature Conservancy | OEE14 | <i>Citizen Science: Engaging and Retaining Public Participation Through Science-Based Monitoring</i>
Christie Pfoertner, Peconic Estuary Program, Cornell Cooperative Extension |
| OEE5 | <i>Sponge Restoration in Florida Bay Through a Successful Research-Outreach Partnership With Florida Sea Grant and Old Dominion University</i>
Shelly Krueger, Florida Sea Grant, University of Florida IFAS Extension, Monroe County | OEE15 | <i>A Positive of Extreme Weather Events: The Application of Personal Experiences to Promote Community Engagement Across Coastal Watersheds</i>
Lisa Swanger, Coastal Carolina University |
| OEE6 | <i>Social Network Analysis of Actors Involved in Systems Approach to Geomorphic Engineering (SAGE)</i>
Kristin Raub, Coastal States Organization & USACE's Institute for Water Resources | OEE16 | <i>Contaminant Risks in Subsistence Fishing in Coastal North Carolina: What You Don't Know CAN Hurt You</i>
Liz Brown-Pickren, Coastal Resources Management Program, East Carolina University |
| OEE7 | <i>Enhancing Community Preparedness and Resilience With Natural Systems and Services: Approaches, Actions, and Partnerships That Work</i>
Adam Whelchel, The Nature Conservancy | OEE17 | <i>Building Partnerships to Protect Natural and Cultural Resources</i>
Devon Eulie, University of North Carolina Wilmington |
| OEE8 | <i>Advancing Resilience in Connecticut Through Multi-Jurisdictional Regional Frameworks</i>
Adam Whelchel, The Nature Conservancy | OEE18 | <i>Collaborating for Coastal Resilience: Stakeholder Assessment and Interdependence in Seabrook, New Hampshire</i>
Emily Bialowas, University of New Hampshire |
| OEE10 | <i>The Wild & This River's Bank</i>
Elizabeth Wilkie, Vallejo Watershed Alliance | | |

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Hannah Coon, Vermont Law School
- OEE20** *Perceptions of Participants in the NOAA National Marine Sanctuary Nomination Process: A Case Study of Mallows Bay-Potomac River*
Cathrine Denman, University of Rhode Island
- OEE21** *Iterative Design of Citizen- and Student-Friendly Monitoring Protocols: a Report From the Field*
Robert Newton, Ashore Consulting
- OEE22** *Climate Kids Program Marine Module, Climate Science Alliance- South Coast*
Laura Hampton, Climate Science Alliance-South Coast
- OEE23** *Curriculum + Community Enterprise for Restoration Science (CCERS): Diverse Teams Collaborate on Middle School Curriculum With Hands-on STEM-C Projects in New York Harbor*
Erica Watson-Currie, SmartStart Research & Education
- OEE24** *Curriculum + Community Enterprise for Restoration Science (CCERS) in New York Harbor*
Erica Watson-Currie, SmartStart Research & Education
- OEE25** *The NOAA Coastal Management Fellowship Program: 20 years and Still Going Strong*
Margaret Allen, The Baldwin Group NOAA Office for Coastal Management
- OEE26** *Developing a Vulnerability Self-Assessment Toolkit for Coastal Communities in Puerto Rico*
Amanda Leinberger, Puerto Rico Coastal Zone Management Program
- OEE28** *Estuaries Matter: Connecting Recreation and Sense of Place to Resilience on Cape Cod*
Kate Mulvaney, U.S. EPA Atlantic Ecology Division
- OEE29** *Coast-Wide Nature-Based Tourism Program for the Six Coastal Counties in Mississippi*
Rhonda Price, Mississippi Department of Marine Resources
- OEE30** *Connecting Traditional Ecological Knowledge and Natural Science: A Partnership Between State and Tribal Department of Natural Resources*
Jodi Bluhm, Samish Indian Nation
- OEE31** *Nanakuli Wetland and Watershed Project – Restoring Respect to and Promoting Active Stewardship of a Bio-Cultural Community Resource in Hawaii*
Pauline Sato, Malama Learning Center
- OEE32** *San Juan Island Beach Clean Up: A Partnership Between Washington State DNR and the Samish Indian Nation*
Todd Woodard, Samish Indian Nation Natural Resources Department
- OEE33** *Remediation, Restoration, and Revitalization in Great Lakes Areas of Concern: A Case Study at Muskegon Lake, Michigan*
Sarah Cook, Great Lakes Commission
- OEE34** *Large-Scale Partnerships Case Study: Conservation Action Teams in the U.S. Caribbean*
Kasey Jacobs, U.S. Forest Service/Caribbean Landscape Conservation Cooperative
- OEE35** *Large-Scale Partnerships Case Study: Southeast Conservation Adaptation Strategy*
Kasey Jacobs, Caribbean Landscape Conservation Cooperative
- OEE36** *Habitat Is Where It's At: An Urban Wildlife Conservation Partnership*
Shara Gremillion, University of New Orleans
- OEE37** *Building Capacity Through Collaboration: Lessons From an Urban, Waterfront Community Camden's Collaborative*
Magdalene McCann Johns, Camden County, New Jersey

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Policy, Planning, and Funding (PPF)

ppF1 *Ecosystem Services Value in the Greater Houston Region*
Deborah January-Bevers, Houston Wilderness

ppF2 *Defining the Best Natural Enhancements and Innovative Technologies to Deliver Ecosystem Services to Highly Urbanized Waterfronts*
Charmaine Dahlenburg, National Aquarium

ppF3 *Evaluating Oyster Aquaculture's Cost-Effectiveness as Nitrogen Removal Best Management Practice – A Case Study of the Delaware Inland Bays*
Jefferson Flood, University of Delaware

ppF4 *Adopt-a-Buoy Pilot: Facilitating Community Financial Support for Observation Equipment When Its Useful Life Exceeds the Original Federal Funding Cycle*
Kristin Schrader, Great Lakes Observing System

ppF5 *Coastal Restoration and Energy Production System (CREPS)*
David Heap, CC-CleanTech, LLC

ppF6 *Management and Exploitation Areas for Benthic Resources (AMERBs), and Socioeconomic and Organizational Impact on the Coast of Chile: a Tool for Ecosystem Restoration*
Pedro Romero, Instituto de Fomento Pesquero

ppF7 *The Oases and the Climate Change in Morocco: Unique Model of Sustainability*
Adil Said, Water, Forestry, and Desertification Depart

ppF8 *Connected Land Conservation Plan of the East Cooper Region of South Carolina*
Alex Smith, East Cooper Land Trust and the College of Charleston

ppF9 *Ecological Effects of Sea Level Rise Program: Science to Facilitate Mitigation of Coastal Flooding Impacts*
David Kidwell, NOAA

ppF10 *Change in Vegetation Types in Coastal Louisiana from 2007 to 2013*
Steve Hartley, USGS

ppF11 *Applying Historical and Future Climate Extreme Trends to Environmental Issues in Chesapeake Bay*
Kari St. Laurent, Delaware Department of Natural Resources and Environmental Control/DNERR

ppF12 *Being Prepared for Climate Change: A Workbook for Developing Risk-Based Adaptation Plans*
Michael Craghan, U.S. EPA

ppF13 *Collaborative Adaptation Planning for Sea Level Rise in the Tampa Bay Region*
Libby Carnahan, UF/IFAS Extension, Florida Sea Grant

ppF14 *A Climate Change Adaptation Plan: From Words to Action. The Case of the The San Juan Bay Estuary*
Gladys Rivera, San Juan Bay Estuary Program

ppF15 *Preparing for Coastal Hazards in Maine: Developing a Community Resiliency Index to Assess Flood Vulnerability and Plan for Adaptation*
Abbie Sherwin, Maine Department of Agriculture, Conservation, and Forestry

ppF16 *Regional Framework for Coastal Resilience in Southern Connecticut: Legal, Policy, and Regulatory Assessment*
Read Porter, Marine Affairs Institute / RI Sea Grant Legal Program

ppF17 *A New England Case Study: The Brave New World of Ocean Planning*
Susan Farady, University of New England

ppF18 *Marine Species Distribution Shifts in the U.S. Northeast Continental Shelf Under Continued Ocean Warming*
Kristin Kleisner, Environmental Defense Fund

ppF19 *Prioritizing Land Conservation for Rappahannock River Valley National Wildlife Refuge Using Resource Concentration Complexes, Focus Areas, and Goals Identified in the Refuge's Comprehensive Conservation Plan*
Leslie Pitt, USFWS

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- PPF20** *Living Shorelines: Synthesizing Results of a Decade of Implementation in Coastal Alabama*
Brittany Blomberg, Dauphin Island Sea Lab
- PPF21** *Promoting the Watershed Approach: Plan, Implement, Monitor, Respond, and Adapt*
Christian Miller, Auburn University, Marine Extension and Research Center
- PPF22** *Lessons Learned From Watershed Planning in Thurston County, Washington*
Allison Osterberg, Thurston County, Washington
- PPF23** *Investigating Rhode Island Town Beaches Litter Policies*
Sara Benson, University of Rhode Island
- PPF24** *The Coastal Zone Management Act: Promoting Resiliency in the Commonwealth of the Northern Mariana Islands*
Erin Derrington, Bureau of Environmental and Coastal Quality
- PPF25** *Eutrophication Governance in Chesapeake Bay and the Baltic Sea: A Comparison of the Determinants of Adaptive Capacity*
Savitri Jetoo, Abo Akademi University
- PPF26** *Development of the CPRA Oyster Lease Acquisition and Compensation Program (OLACP) – From Litigation to Legislation*
Jason Shackelford, GeoEngineers

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Program Index is alphabetical by last name.

Speakers, Panelists, Moderators, and Chairs presenting in the Concurrent Sessions

Poster numbers are listed for poster presenters. All poster presentations are in the Expo and Poster Hall.

Room Abbreviations: St. Charles Ballroom (STC) - St. James Ballroom (STJ) - Jefferson Ballroom (JFB) - Canal Room (CAN) Camp Room (CMP) - Commerce Room (COM) - Royal Room (ROY) - Jackson Room (JAC) - Magazine Room (MAG) - Fulton Room (FUL) - Parish Room (PAR) - Newberry Room (NEW)

Poster Categories: Science, Technology, and Practice (STP) - Outreach, Education, and Engagement (OEE) - Policy, Planning, and Funding (PPF)

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King, C. - Wed. 10:30 am (CAN)
King, N. - STP108
Klay, K. - Tue. 2:00 pm (CAN), OEE11, OEE12
Kleisner, K. - PPF18
Klochak, J. - STP14
Knisel, J. - Mon. 2:00 pm (STJ)
Kobriniski, E. - Tue. 4:00 pm (STC)
Koehler, T. - Wed. 10:30 am (FUL)
Konchar, K. - Mon. 4:00 pm (FUL)
Kraft, B. - Tue. 4:00 pm (MAG)
Kreeger, D. - Tue. 4:00 pm (COM)
Krienitz, J. - STP49
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Lambert, D. - Tue. 2:00 pm (CMP)
Lambrinos, J. - STP100
Landry, M. - Wed. 8:30 am (MAG)
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Lankford, K. - Mon. 4:00 pm (STC)
Largier, J. - Tue. 10:30 am (ROY)
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Lawrence, L. - Tue. 8:30 am (MAG),
Wed. 1:30 pm (CAN)

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COASTAL AND ESTUARINE RESEARCH
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Leduc-Lapierre, M. - Wed. 10:30 am (JFB), STP38

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Lessmann, J. - STP42

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Levitz, C. - Tue. 10:30 am (STC)

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Lewis, C. - Wed. 10:30 am (CAN)

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Lewis, R. - Wed. 8:30 am (JAC)

Liebman, A. - Mon. 4:00 pm (CAN)

Lieberman, C. - Tue. 10:30 am (ROY), STP70

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Liu, A. - STP154

Loeb, C. - Wed. 1:30 pm (ROY)

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M

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Wed. 1:30 pm (MAG)

Madhosingh-Hector, R. - Tue. 10:30 am (CAN)

Mahan, L. - Tue. 2:00 pm (FUL)

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Maloz, S. - Wed. 1:30 pm (CMP)

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Mannix, H. - Tue. 2:00 pm (STC)

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Marcy, D. - Tue. 2:00 pm (JFB)

Marsh, D. - Wed. 11:00 am (FUL)

Marshak, T. - Mon. 4:00 pm (MAG)

Martin, A. - STP8



Ocean Sensor Systems

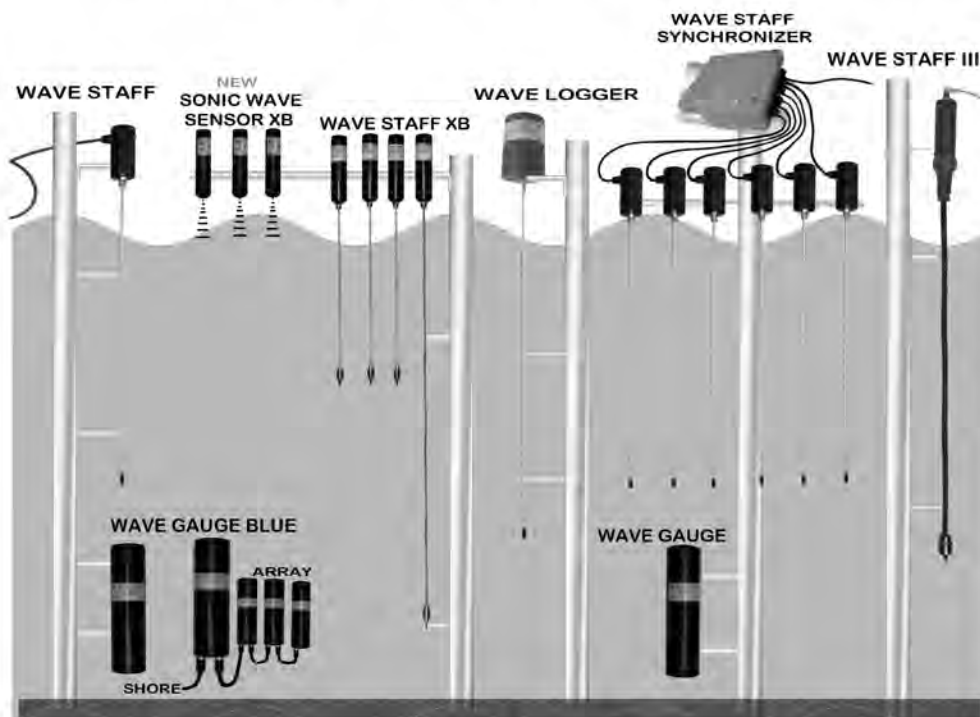
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THE
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N

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Noordyk, J. - Tue. 8:30 am (MAG)
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O

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Oates, G. - Tue. 2:00 pm (JFB)
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Olson, P. - Mon. 2:00 pm (CMP)
O'Meara, K. - Mon. 4:00 pm (PAR)
Opdyke, D. - Mon. 4:00 pm (FUL)
O'Rourke, D. - Tue. 10:30 am (JAC)
Orff, K. - Wed. 1:30 pm (JFB)
Orr, M. - Mon. 4:00 pm (ROY)
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Osterberg, A. - PPF22

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Pace, N. - Tue. 2:00 pm (COM),
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Parece, T. - Mon. 4:00 pm (JAC)
Paul, A. - Wed. 10:30 am (FUL)
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Pieranunzi, D. - Wed. 8:30 am (JAC)
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Tue. 8:30 am (FUL)
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Potlock, K. - STP52
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R

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Reiner, E. - Wed. 1:30 pm (MAG)
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Ricci, G. - Wed. 1:30 pm (JAC)
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Ries, T. - Mon. 11:00 am (STJ),
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Rizzo, A. - Tue. 10:30 am (PAR)
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Robbins, C. - Tue. 8:30 am (STC)
Roberts, C. - Mon. 4:00 pm (MAG)
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Roddenberry, A. - Mon. 2:00 pm (PAR)
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Roth, R. - Mon. 4:00 pm (CAN),
 Wed. 1:30 pm (COM)
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Royster, J. - Tue. 2:00 pm (FUL)
Rubino, P. - Wed. 1:30 pm (JAC)
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Shostik, T. - Tue. 2:00 pm (FUL)
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Smith, E. - Mon. 2:00 pm (JAC)
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Votteler, T. - Mon. 2:00 pm (JAC)
Vuxton, E. - Wed. 1:30 pm (CAN)

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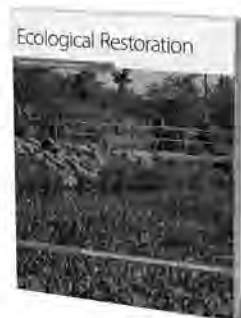
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Native Plants Journal provides a forum for dispersing practical scientific information about planting and growing North American native plants for conservation, restoration, reforestation, and landscaping. Refereed research and general technical articles are blended to foster communication between researchers, academics, and field and nursery personnel. Topics include seed germination, planting techniques and tools, equipment, cultural techniques, production trends, seed collection, genetics, and fertilization. Plant propagation protocols provide specific recommendations for growing particular species. Relevant books are reviewed.



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Many thanks to everyone who helped make the Summit an overwhelming success.

Thanks to our host, Coalition to Restore Coastal Louisiana, and to the 2016 Summit Program Committee Members for all of their long hours and hard work!

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Restore America's Estuaries

Caitlyn McCrary
The Baldwin Group at NOAA and The Coastal Society

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Matt Nixon, *Maine Coastal Program*
Lisa Noble, *America's Wetland*
Emily Norton, *Brown University*
Katie O'Meara, *Maryland Institute College of Art*
Michelle Orr, *ESA*
Jim Pahl, *Coastal Restoration and Protection Authority of Louisiana*
Amelia Pellegrin, *Port of New Orleans*
Patrick Pitts, *U.S. Fish & Wildlife Service*
Myra Price, *U.S. Environmental Protection Agency*
Tim Purinton, *Massachusetts Division of Ecological Restoration*
Gary Raulerson, *Tampa Bay Estuary Program*
Tom Ries, *Scheda Ecological Associates*
Katherine Segarra, *Bureau of Ocean Energy Management*
Bill Shadel, *Shadel Environmental*
Charles "Si" Simenstad, *University of Washington*
Courtney Smith, *Galveston Bay Foundation*
Mike Smith, *Gulf of Mexico Foundation*
Tiffany Smythe, *University of Rhode Island Coastal Resources Center*
Kate Spear, *U.S. Geological Survey*
Bhaskar Subramanian, *Maryland Department of Natural Resources*
Robert Twilley, *Louisiana Sea Grant*
Rebecca Verity, *AECOM*
Lexia Weaver, *North Carolina Coastal Federation*
Lee Weishar, *Woods Hole Group*
Todd Woodard, *Samish Indian Nation*
Julia Wyman, *Roger Williams University School of Law/Rhode Island Sea Grant Legal Program*

Thank You



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We are grateful to our local host, the Coalition to Restore Coastal Louisiana, and many local individuals who have helped us design an exceptional list of field sessions and other opportunities that will introduce the participants of the Summit to the local region.

We thank the following individuals for the time and effort they have contributed:

Deborah Abibou, *Coalition to Restore Coastal Louisiana*
Richie Blink
Katie Brasted, *Woodlands Conservancy*
Kimberly Burke, *Restore America's Estuaries*
Mark Ford, *National Park Service*
Marie Gould, *Lost Lands Eco Tours*
Bob Marshall

Seth Moncrief, *Barataria-Terrebonne National Estuary Program*
Rob Moreau, *Southeastern Louisiana University*
Dusty Pate, *Barataria-Terrebonne National Estuary Program*
Elsa Carlisle Schwartz, *Restore America's Estuaries*
Aleutia Scott, *Jean Lafitte National Historic Park and Preserve*
Susan Testroet-Bergeron, *Barataria-Terrebonne National Estuary Program*

Thanks to the Restore America's Estuaries and The Coastal Society Boards of Directors for their tremendous support of the Summit

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Steven MacLeod, *Ecology & Environment, Inc.*
Caitlyn McCrary, *The Baldwin Group, NOAA Office for Coastal Management*
Tiffany Smythe, *Coastal Resources Center, University of Rhode Island Graduate School of Oceanography*
Erika Washburn, *Lake Superior National Estuarine Research Reserve*

And thanks to the staff of Restore America's Estuaries for their tireless work and countless hours

Jeff Benoit, *President and CEO*
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