

Restore America's Estuaries 7th National Summit
on Coastal and Estuarine Restoration and
24th Biennial Meeting of The Coastal Society
Inspiring Action, Creating Resilience



"Heron on the Bay" by John Brandon Sills

Gaylord National
Convention Center

National Harbor, Maryland

November 1-6, 2014



Summit 2014 App!

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National Summit Agenda Here!
www.RAETCS14.sched.org



RESTORE
AMERICA'S
ESTUARIES

The Coastal Society

www.estuaries.org/summit

#RAETCS14



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Welcome to the 7th National Summit on Coastal and Estuarine Restoration and 24th Biennial Meeting of The Coastal Society!

Restore America's Estuaries and **The Coastal Society** are pleased to welcome you to *Inspiring Action, Creating Resilience*, the first National Summit to bring together and unite the coastal restoration and management communities for engaging discussions that will explore issues, solutions, and lessons learned about creating resilient ecosystems and communities while maintaining thriving economies. As with past Summits, this year's event will convene a unique blend of policy, science, and business interests.

The bringing together of our two organizations, and the interests we represent, is long overdue. This collaboration provides an opportunity to address many of the issues we have in common in a more holistic way and offers a more cost-effective means to convene the discussion. It is our intent that, through this Summit, presenters and audiences alike will expand networks, develop relationships, and leverage opportunities to find solutions to common problems. Judging from the striking number and diversity of registrants and the extraordinary response to the Call for Proposals, it certainly looks like we are well on our way to achieving our desired outcome. And what a perfect venue for all of this, being just minutes away from our nation's capital!

When developing the theme for this Summit, we wanted to address what we consider to be the most pressing challenge facing our coasts: climate change. To that end, the program agenda has been designed with a range of events and activities that explore the many-faceted impacts of climate change, and more importantly, solutions to these difficult challenges. Activities begin on Saturday with a Community Service Day along the shore of the Anacostia River. On Sunday, a day of informative field sessions and workshops is capped by the evenings Presidents' Opening Reception in the Expo Hall. Over the following several days there will be an unprecedented more than 500 oral presentations in 120 compelling sessions, as well as more than 180 poster presentations.

This year we are pleased to present two highly engaging plenary sessions. On Monday morning we are honored to have **Dr. Susanne Moser** present the Marc Hershman Keynote, *Taken by Storm: America's Impending Resilience Revolution*. The Wednesday plenary, *The Future of Coastal Resilience – Innovations and Trends*, will feature an energetic, thought provoking panel discussion led by **Dan Zarrilli**, Director of the New York City Office of Recovery and Resilience, and includes leading thinkers and future forecasters from four key topical areas that will explore various dimensions of coastal resilience.

We hope that you share in our excitement as we embark on this new collaboration to lead the first national effort to bridge the restoration and coastal management communities.

Jeff Benoit
President and CEO
Restore America's Estuaries

Lisa Schiavinato
President
The Coastal Society

About the Artist

The artwork for the 2014 National Summit (including the cover of this program) was donated by plein air artist John Brandon Sills. Though he is accomplished in all types of painting, John has chosen landscape as his primary means of expression. John paints nature in all its forms, emphasizing those aspects that create an awareness of our relationship to the environment. Growing up on the Chesapeake Bay, John works in a manner that derives its technical inspiration from the Old Masters and its stylistic appearance from Barbizon and Impressionist painting. John has received many awards and accolades for his mastery of painting, including most recently this July, he was awarded grand prize for his painting "Meditation," during a special artists and collectors reception at the Academy Art Museum in Easton, MD.

For more information on John Brandon Sills, please visit: www.johnbrandonsills.com

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Summit Highlights



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Welcome to the Largest Gathering of the Coastal Restoration and Management Community in More Than 10 Years!

Restore America's Estuaries and The Coastal Society are proud to present the first ever National Summit that will bring together the restoration and coastal management communities for an integrated discussion to explore issues, solutions, and lessons learned.

Thank You for Helping to Restore the Anacostia!

On Saturday, November 1, Restore America's Estuaries, The Coastal Society, Chesapeake Bay Foundation, the Anacostia Watershed Society, and Dewberry worked with Summit attendees and local volunteers to install goose exclusion fencing and remove debris from Heritage Marsh in the Anacostia watershed.

A Climate-Neutral Summit, Once Again!

Beginning with our 3rd National Conference in 2006 in New Orleans, Restore America's Estuaries has been committed to providing climate-neutral events. By retiring carbon credits, we offset 100% of the CO₂ emitted through Summit events and participant travel. Washington Gas Energy Services and Sterling Planet are the Summit Climate Partners.

Marc J. Hershman Keynote Address on Monday

Dr. Susanne Moser will present "*Taken by Storm: America's Impending Resilience Revolution.*" Monday's highly-dynamic Keynote presentation will set the stage for three days of dialogue across the coastal management community regarding our ability to define and create more resilient communities.

The Largest Program to Date

Choose from more than 500 oral presentations in 120 compelling sessions, as well as more than 180 poster presentations! The overarching Summit theme of "*Inspiring Action, Creating Resilience*" will explore the many ways in which restoration and management can shape communities and vice versa, identify how to effectively measure and convey these changes and how people and communities can take meaningful action such that they can plan, respond, and prosper in the face of challenges.

Wednesday Plenary Session: The Future of Coastal Resilience - Innovations and Trends

The session will lead off with an overview of the steps that one of our most urban coastal communities, New York City, has taken to improve its resiliency in the face of climate change impacts. Panelists will provide new insights into the goals of coastal resilience, and whether and how it can be attained. They will identify current trends, challenge traditional thinking, describe innovations and new initiatives, and identify strategies to improve coastal community resiliency.

General Information



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About Restore America's Estuaries

Restore America's Estuaries is a national 501(c)(3) nonprofit organization established in 1995 as an alliance of 11 community-based conservation organizations from the East, West, and Gulf Coasts. RAE is dedicated to the protection and restoration of bays and estuaries as essential resources for our nation.

About The Coastal Society

The Coastal Society is an organization of private sector, academic, and government professionals and students. The Society is dedicated to advancing the network of professionals focused on coastal areas through education, debate, and discussion of key issues.

Summit 2014 App!

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

www.RAETCS14.sched.org or scan:



Social Media

Join the Conversation Online: #RAETCS14

We encourage the use of social media throughout the Summit to share insights, promote presentations, highlight ideas, and provide feedback. Updates, breaking news, and reminders will be posted on the RAE and TCS Facebook and Twitter accounts. We ask participants to please respect any speaker requests regarding limits on sharing. Otherwise, please share away.



Twitter

@RAEstuaries
@CoastalSociety



Facebook

facebook.com/RestoreAmericasEstuaries
facebook.com/TheCoastalSociety

Student Merit Awards

Sponsored by:



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

2014 Summit Acronyms

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
NPS – National Park Service

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
TNC – The Nature Conservancy
TMDL – total maximum daily load
USACE – U.S. Army Corps of Engineers
USFWS – U.S. Fish and Wildlife Service
USGS – U.S. Geological Survey
VCS – Verified Carbon Standard

A Climate-Neutral Summit



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**Washington Gas
Energy Services**

A Washington Gas Affiliated Company

**STERLING
PLANET**

Thanks to Washington Gas Energy Services (WGES) and Sterling Planet, the National Summit will be climate neutral. Restore America's Estuaries and The Coastal Society are proud to partner with WGES, a leading retail energy supplier with several sustainable energy options, and Sterling Planet, a clean energy company and carbon offset provider, as we honor our commitment to offset 100% of the Summit's GHG emissions.

The National Summit has been climate neutral since 2006 due to the generosity of our many partners. Using accepted carbon calculators, we estimate that Summit activities, including participant travel, will result in 1,400 metric tons of CO₂ emissions. WGES CleanSteps® Carbon Offsets will be used to counterbalance these emissions, through independently verified, locally sourced carbon-reduction projects in the areas of transportation and landfill gas. The offsets will be sourced through Sterling Planet.

Climate change, through sea level rise, changing precipitation patterns, altered freshwater inflows, and migrating native and invasive species, will significantly reshape our coastal landscapes. In many ways, our coasts and estuaries are both the first line of defense and the measuring stick for climate change impacts. Coasts and estuaries can also help reduce the impacts of climate change. The restoration and conservation of seagrasses and tidal wetlands offer significant potential for sequestering and storing carbon. Restore America's Estuaries is leading the national effort to link climate mitigation and adaptation with coastal wetland conservation activities.

WGES, Sterling Planet, and the Chesapeake Bay Foundation maintain a unique public-private partnership that creates current and future environmental benefits throughout the Chesapeake Bay Watershed, which starts as far north as NY and runs through six states and the District of Columbia. A portion of all WGES CleanSteps® Carbon Offsets purchases spurs a contribution to the CBF-directed Carbon Reduction Fund, which is used to develop clean air and water projects throughout the Chesapeake Bay region. WGES and Sterling Planet's contributions to the fund have totaled more than \$540,000 to date.

Restore America's Estuaries and The Coastal Society are pleased to be working with WGES and Sterling Planet to reduce the impacts of climate change and for the long-term protection and restoration of our coasts. Learn more about the unique partnership and carbon offset product at: www.wges.com/carbonoffsets.



NOAA

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On the Web: www.noaa.gov | On Twitter: @NOAA | On Facebook: NOAA

Summit Schedule



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The Coastal Society

Saturday, November 1, 2014

Location

8:30 am – 1:30 pm

Community Restoration Project at Heritage Marsh in the Anacostia Watershed

Depart from Maryland
Bus Loop



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The Coastal Society



CHESAPEAKE BAY
FOUNDATION
Saving a National Treasure



ANACOSTIA
WATERSHED
SOCIETY



Dewberry

Sunday, November 2, 2014

Location

9:00 am – 4:30 pm

An Introduction to Blue Carbon for the Coastal Restoration and Management
Community: Linking Climate Mitigation and Adaptation With Conservation

National Harbor 11

Sponsored by:



USGS
science for a changing world

9:30 am – 4:30 pm

Field Sessions

Sponsored by:



COPRI

Depart from Maryland
Bus Loop

1:00 pm – 5:00 pm

Weaving Your Coastal Network: Environmental Leadership Program Training for
Coastal Professionals

National Harbor 9

1:00 pm – 5:00 pm

Coastal Community Resilience Training

Maryland 1

1:00 pm – 5:00 pm

Implementing Marine Spatial Planning: Techniques and Strategies for Practitioners

National Harbor 10

3:00 pm – 3:45 pm

Afternoon Yoga

Sponsored by: Happy Spirit Yoga Therapy

Chesapeake I

4:30 pm – 6:00 pm

Chesapeake Bay Clean-Up Effort – Are We on Track?

Maryland Ballroom

5:00 pm – 7:30 pm

Registration Open

Expo & Poster Hall Foyer

6:00 pm – 8:30 pm

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

Expo & Poster Hall

Monday, November 3, 2014

Location

7:00 am – 5:30 pm

Registration Open

Expo & Poster Hall Foyer

7:00 am – 7:45 am

Morning Yoga

Sponsored by: Happy Spirit Yoga Therapy

Chesapeake I

7:00 am – 8:15 am

Continental Breakfast

Sponsored by:



ARCADIS
Infrastructure Water Environment Buildings

Expo & Poster Hall

8:30 am – 10:30 am

**Plenary and Mark J. Hershman Keynote Address:
“Taken by Storm: America’s Impending Resilience Revolution”**

Sponsored by:



THE OCEAN FOUNDATION



THE CURTIS & EDITH
MUNSON FOUNDATION

Maryland Ballroom

10:30 am – 11:00 am

Morning Coffee Break

Sponsored by:



Battelle
The Business of Innovation

Expo & Poster Hall

11:00 am – 12:30 pm

Concurrent Session I

12:30 pm – 2:00 pm

Lunch on your own

Summit Schedule



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Monday, November 3, 2014 (continued)		Location
12:50 pm – 1:50 pm	Brown-Bag Wellness Session: Replenishing Your Energy While Helping the Coasts <i>Sponsored by: Happy Spirit Yoga Therapy</i>	Chesapeake I
2:00 pm – 3:30 pm	Concurrent Session II	
3:30 pm – 4:00 pm	Afternoon Coffee Break <i>Sponsored by: Battelle</i> <small>The Business of Innovation</small>	Expo & Poster Hall
3:40 pm – 3:50 pm	Yoga Mini-Break <i>Sponsored by: Happy Spirit Yoga Therapy</i>	Chesapeake I
4:00 pm – 5:30 pm	Concurrent Session III	
5:30 pm – 7:30 pm	Poster Session Happy Hour <i>Sponsored by: Biohabitats</i>	Expo & Poster Hall
Tuesday, November 4, 2014		Location
7:00 am – 7:45 am	Morning Yoga <i>Sponsored by: Happy Spirit Yoga Therapy</i>	Chesapeake I
7:00 am – 8:15 am	Continental Breakfast <i>Sponsored by: ARCADIS</i> <small>Infrastructure Water Environment Buildings</small>	Expo & Poster Hall
7:15 am – 8:15 am	The Coastal Society Annual Meeting	Maryland Ballroom
8:30 am – 10:00 am	Concurrent Session IV	
10:00 am – 10:30 am	Morning Coffee Break <i>Sponsored by: Battelle</i> <small>The Business of Innovation</small>	Expo & Poster Hall
10:30 am – Noon	Concurrent Session V	
Noon – 2:00 pm	Lunch on your own	
12:30 pm – 1:30 pm	Brown-Bag Lunch Session: Latitude 41 – Breaking Barriers to Regional Estuarine Restoration From the Bronx to the Cape	Maryland Ballroom
12:30 pm – 1:45 pm	NOAA Habitat Blueprint Brown-Bag Lunch Discussion: What Are Focus Areas Anyway?	Maryland 5-6
12:50 pm – 1:50 pm	Brown-Bag Wellness Session: Tapping Into the Stillness of Nature – Change Your Perspective Without Leaving Your Chair <i>Sponsored by: Happy Spirit Yoga Therapy</i>	Chesapeake I
2:00 pm – 3:30 pm	Concurrent Session VI	
3:30 pm – 4:00 pm	Afternoon Coffee Break <i>Sponsored by: Battelle</i> <small>The Business of Innovation</small>	Expo & Poster Hall
3:40 pm – 3:50 pm	Yoga Mini-Break <i>Sponsored by: Happy Spirit Yoga Therapy</i>	Chesapeake I
4:00 pm – 5:30 pm	Concurrent Session VII	
6:00 pm – 10:00 pm	Coastal Rendezvous	Expo & Poster Hall

Summit Schedule



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Wednesday, November 5, 2014		Location
7:00 am – 7:45 am	Morning Yoga <i>Sponsored by: Happy Spirit Yoga Therapy</i>	Chesapeake I
7:00 am – 8:15 am	Continental Breakfast <i>Sponsored by:</i>  ARCADIS <small>Infrastructure. Water. Environment. Buildings.</small>	Expo & Poster Hall
8:30 am – 10:00 am	Plenary: “The Future of Coastal Resilience - Innovations and Trends” <i>Sponsored by:</i>  GREAT LAKES DREDGE & DOCK COMPANY, LLC	Maryland Ballroom
10:00 am – 10:30 am	Morning Coffee Break	Expo & Poster Hall
10:30 am – Noon	Concurrent Session VIII	
Noon – 1:30 pm	Lunch on your own	
1:30 pm – 3:00 pm	Concurrent Session IX	
3:00 pm – 3:30 pm	Afternoon Coffee Break	Chesapeake Foyer
3:30 pm – 5:00 pm	Concurrent Session X	
Thursday, November 6, 2014		Location
8:00 am – Noon	Coastal Community Resilience Training	National Harbor 12
8:30 am – 5:00 pm	Improving Restoration Monitoring Design	National Harbor 10
9:00 am – 12:30 pm	From Discovery to Data Vis: How to Communicate Science on the Web	National Harbor 11
9:30 am – 5:00 pm	Restoring the Natural Functions of Wetlands: Identifying Common Goals for Advancing Wetland Restoration Success	National Harbor 9

Summit 2014 App!

For the most up-to-date information, presenter abstracts, coauthors, and to create your own personalized schedule of events please visit:

www.RAETCS14.sched.org

or scan the QR code below!





U.S. Fish and Wildlife Service

Coastal Program

"The Mission of the U.S. Fish & Wildlife Service is to work with others to conserve, protect and enhance fish, wildlife, and plants and their habitats for the continuing benefit of the American people."



"Coastal Program staff are critical partners for local restoration efforts during every project phase, from helping with design to leveraging additional partners. USFWS involvement results in healthier coastal habitat and major economic benefits to local communities."

— Jeff Benoit, President and CEO, Restore America's Estuaries





United States Department of Agriculture

Natural Resources Conservation Service

2014 Farm Bill

Conservation for You

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To learn more, visit:

www.nrcs.usda.gov/farmbill

www.nrcs.usda.gov/getstarted



Facility Map

Gaylord National
Convention Center

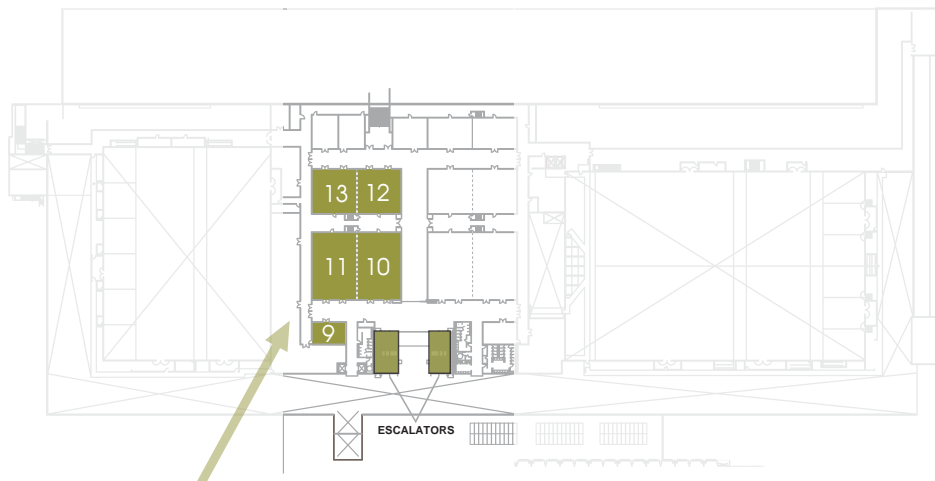


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The Coastal Society

Level 3

CONCURRENT SESSIONS
National Harbor 9-13



CONCURRENT SESSIONS

Level 2

PLENARY SESSIONS
Maryland Ballroom

CONCURRENT SESSIONS
Maryland 1-6
Chesapeake AB, DE, GH, JK

YOGA & WELLNESS SESSIONS
Chesapeake I



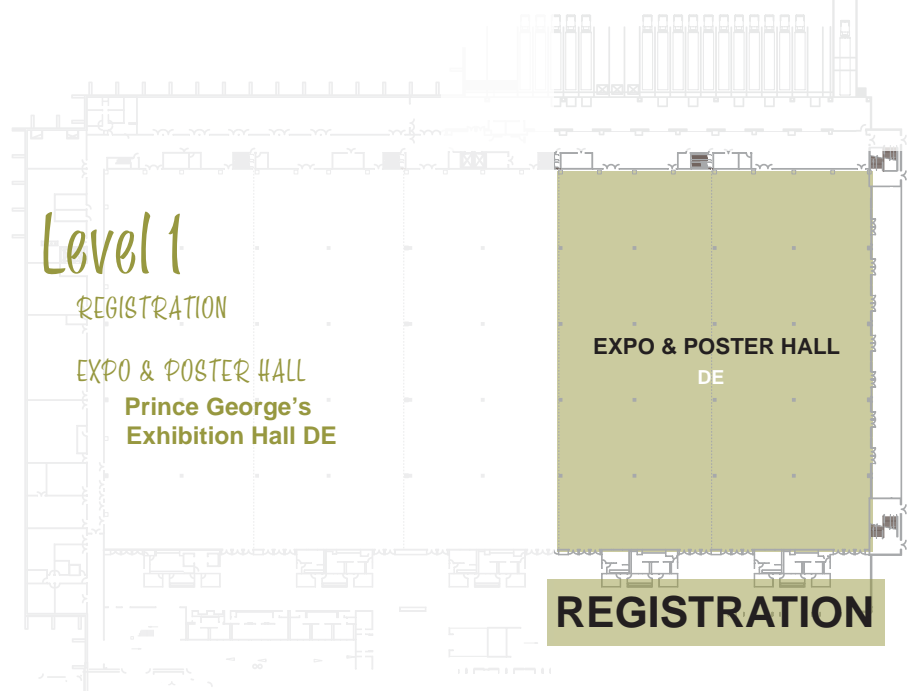
Level 1

REGISTRATION

EXPO & POSTER HALL
Prince George's
Exhibition Hall DE

EXPO & POSTER HALL
DE

REGISTRATION



- **Climate Ready Estuaries** – addressing climate change in coastal areas
 - **Coastal Wetlands Initiative** – working to reduce the loss of wetlands in coastal watershed
 - **Green Infrastructure** - improving community resiliency today and into the future
-
- Climate Ready Estuaries <http://www2.epa.gov/cre>
 - Coastal Wetlands Initiative <http://water.epa.gov/type/wetlands/cwt.cfm>
 - Green Infrastructure for Climate Resiliency
http://water.epa.gov/infrastructure/greeninfrastructure/climate_res.cfm



The EPA Office of Water is proud to support RAE 2014.



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

Sunday, November 2, 6:00 pm – 8:30 pm

Gaylord Convention Center Expo and Poster Hall

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 100 exhibitors from businesses, agencies, academia, and non-profit organizations. Refreshments and cash bar will be available.

Visit the Restoration Vessel, Patricia Campbell, Dockside at National Harbor!

Sunday, November 2 – Wednesday, November 5, 10:00 am – 4:00 pm

Free for Summit Registrants

The R/V Patricia Campbell will be docked outside National Harbor so please stop by! Informal tours will generally be offered 10:00 am – 4:00 pm daily, but actual availability is subject to Summit events and session schedules.



CHESAPEAKE BAY
FOUNDATION

Saving a National Treasure

Sponsored by:

Realizing that restoring Chesapeake Bay oysters requires dedicated efforts, the Chesapeake Bay Foundation commissioned the restoration vessel, Patricia Campbell, in August 2002. From its homeport at Discovery Village in Shady Side, MD, the 60-foot boat transports and places hatchery-produced seed oysters onto sanctuary reefs throughout MD waters. It also carries oyster shell and other materials for reef construction.

CBF trustee and oyster advocate Keith Campbell funded construction of Patricia Campbell and named it for his wife, Patricia. The vessel's design combines features from VA oyster farmers' boats with state-of-the-art technology to create the most advanced oyster restoration vessel on the Chesapeake Bay. The boat performs multiple functions essential to oyster restoration to help jumpstart the Bay's decimated oyster population.

Continental Breakfasts

Monday, November 3 – Wednesday, November 5, 7:00 am – 8:15 am

Gaylord Convention Center Expo and Poster Hall

Free for Summit Registrants

Start each day off in the Summit's Expo Hall with a continental breakfast and coffee. Chat with exhibitors as you get fueled up for the day ahead.



Infrastructure · Water · Environment · Buildings

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Poster Session Happy Hour

Monday, November 3, 5:30 pm – 7:30 pm

Gaylord Convention Center Expo and Poster Hall

Free for Summit Registrants

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.



Biohabitats

Sponsored by:

Summit Special Events



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The Coastal Society

The Coastal Society Annual Meeting

Tuesday, November 4, 7:15 am – 8:15 am

Maryland Ballroom

Free for Summit Registrants

Please join The Coastal Society's Board of Directors for the 2014 Annual 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. TCS Biennial Awards will be announced at the meeting. We look forward to seeing you there!

Join Us for the Coastal Rendezvous

Tuesday, November 4, 6:00 pm – 10:00 pm

Gaylord Convention Center Expo and Poster Hall

Free for Summit Registrants/Guest Tickets \$40

The **Coastal Rendezvous** is an event not to be missed! Join us for music, great food, and fabulous networking!



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and construction management, ARCADIS offers smart
solutions from start to finish.

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We look forward to welcoming you to New Orleans!

Restore America's Estuaries' 8th National Summit on Coastal and Estuarine Restoration

#RAESummit16

Hilton New Orleans Riverside

December 10-15, 2016



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Find out more at www.estuaries.org/summit



Summit Yoga & Wellness Offerings



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The Coastal Society

How to Feel Better & Increase Your Energy — Wellness and Yoga Offerings at the Summit!

Being good stewards and managers of our coasts can be exhausting work. Keeping yourself in good health is essential! To ensure that you put your own oxygen mask on first, the Summit includes offerings to help you maintain – or regain – your equilibrium. Exhausted? Stressed out? Overwhelmed? Yoga classes and brown-bag wellness sessions provide hands-on, practical strategies to help bring you back into balance.

Sponsored by: Happy Spirit Yoga Therapy

Dawn Hamilton, a Certified Yoga Therapist through the International Association of Yoga Therapists, and Life Coach through the Robbins-Madanés Coaching Academy is also a life-long environmental advocate and leader. Dawn combines her passion for the oceans and coasts with yoga and coaching techniques to offer wellness trainings uniquely crafted for the coastal restoration and management communities.

Afternoon Yoga

Sunday, November 2, 3:00 pm – 3:45 pm

Chesapeake I

Treat your body right with an afternoon yoga session! Stretch after your field session, travels, or whatever your day has held. The session will include breathing practices, postures, and final relaxation. Take on the rest of the day with your body and mind engaged and ready to go.

Coastal ecosystem restoration
Integrated planning and design
Multi-hazard mitigation and response
Climate change adaptation
Sustainable design

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WATER + ENVIRONMENT + TRANSPORTATION + ENERGY + FACILITIES

Summit Yoga & Wellness Offerings



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The Coastal Society

Morning Yoga

Monday, November 3 – Wednesday, November 5, 7:00 am – 7:45 am

Chesapeake I

Feel groovy, not groggy! Treat yourself to an energizing morning of breathing practices (pranayama), intention setting (sankalpa), postures (asana), and final relaxation (savasana). Get your body moving and your mind ready for a full day!

Brown-Bag Lunch Break Wellness Sessions:

Grab lunch, come back to the room, and let's get started!

Monday, November 3, 12:50 pm – 1:50 pm

Chesapeake I

Replenishing Your Energy While Helping the Coasts

As coastal specialists, it's vital to maintain our health and well-being over the long haul. Take an hour to learn easy, efficient ways to reduce stress and replenish your energy so you can focus on our coasts. Dawn teaches the LifeForce Yoga® Chakra Clearing meditation, a 15 minute practice to ramp up your energy and lift your mood. When burnout feels too close for comfort, this practice restores your spirit and gives you the juice to fight on.

Tuesday, November 4, 12:50 pm – 1:50 pm

Chesapeake I

Tapping Into the Stillness of Nature: Change Your Perspective Without Leaving Your Chair

The Japanese call it "Forest Bathing," and science has confirmed that spending time in nature is super good for our health. Find out how you can set work aside to fully embrace nature "as is" and connect to its stillness and peace. Learn how to steady your mind and bring your favorite natural setting with you anywhere.

Afternoon Yoga Mini-Break

Monday, November 3 – Tuesday, November 4, during afternoon breaks: 3:40 pm – 3:50 pm

Chesapeake I

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 of the day and on to the evening events!



The Coastal Society

SCIENCE, TECHNOLOGY, AND PRACTICE (STP)

001	002	003	004	005	006	007	008
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COMMUNITY ENGAGEMENT AND EDUCATION (CE)

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POLICY AND PLANNING (PP)

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POSTERS

Food and Beverage

Coffee Station

Wi-Fi Hot Spot

RAE/ CBF/ TCS Booth

ENTRANCE

Exhibitor List

Listed by Booth Number



RESTORE
AMERICA'S
ESTUARIES



Booth Company/Organization

204	ERT
208	Maryland Department of Natural Resources
209	ESA
210	AquaTech Eco Consultants, LLC
211	Atlantic Coastal Fish Habitat Partnership
212	Waterman Industries
215	Great Ecology
216	ICF International
217	Dial Cordy and Associates
218	Coasts, Oceans, Ports, and Rivers Institute
220	Coastal States Organization
221	National Aquarium
222	CSS-Dynamac
302	U.S. Army Corps of Engineers
303	U.S. Department of Agriculture, Natural Resources Conservation Service
308	ARCADIS
309	Newmark Grubb Knight Frank
310	PSEG
311	Taylor & Francis
313	Tetra Tech
316	Taylor Engineering, Inc.
317	LightHawk
318	Tulane Institute on Water Resources Law and Policy
319	IMSG
320	EcoAnalysts, Inc.
321	National Park Service
323	SeaPlan
403	National Oceanic and Atmospheric Administration
404	Restore America's Estuaries, The Coastal Society, and Chesapeake Bay Foundation
409	EarthCorps
411	American Littoral Society
413	Conservation Law Foundation
414	HDR
417	National Wildlife Federation
418	North Carolina Coastal Federation
419	Coastal & Estuarine Research Federation
420	CH2M HILL
421	Biohabitats
422	Fishing for Energy Program
423	MWH
424	Anacostia Watershed Society

Booth Company/Organization

518	Save The Bay - Narragansett Bay
519	Coalition to Restore Coastal Louisiana
520	Louisiana Office of Coastal Protection and Restoration
521	Environmental Defense Fund
522	U.S. Department of Transportation - Federal Highway Administration
523	EarthShare
525	National Parks Conservation Association
606	U.S. Fish and Wildlife Service - Coastal Program
612	Save the Sound, a program of Connecticut Fund for the Environment
614	Save The Bay - San Francisco
616	Tampa Bay Watch
619	Galveston Bay Foundation
620	U.S. Environmental Protection Agency - Office of Wetlands, Oceans, and Watersheds
621	Ducks Unlimited
622	National Fish Habitat Partnership
623	AECOM
624	The ELM Group
625	Association of National Estuary Programs
626	Audubon Louisiana
706/707	Coastal Wetlands Planning, Protection, and Restoration Act (CWPPRA)
712	Battelle
713	George Hatcher Photography
715	T. Allen Marine
716	Washington Gas Energy Services
717	CDM Smith
720	The Nature Conservancy
721	Sterling Planet
722	Environmental Law Institute
723	Great Lakes Dredge & Dock Company
724	Woods Hole Group
725	Coastal Revitalization, LLC
727	Reef Ball Foundation
809	ecoGENESIS, LLC
813	TYPAR Geosynthetics - a PGI brand
817	Dynamic Solutions, LLC
821	Brown and Caldwell
823	Gulf of Mexico Program - EPA
825	Chesapeake Bay Program
827	Ecology and Environment, Inc.

Expo & Poster Hall

Welcome to the Hub of the Summit!



RESTORE
AMERICA'S
ESTUARIES



Restoration and Management Expo

Please join us for the Presidents' Opening Reception and the Opening of the Restoration and Management Expo on **Sunday, November 2, 6:00 pm – 8:30 pm.**

With more than 100 exhibitors, the Expo provides direct access to the essential products, services, people, and programs for your restoration efforts. This dynamic and award-winning marketplace 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.

Wi-Fi Hotspot Lounges

There will be several Wi-Fi hotspots inside the Expo and Poster Hall, for Summit participants to use to connect to the internet and as a spot to network with your colleagues while charging your devices. If you are in need of a computer or printer, those services will be provided at the registration desk.

Wi-Fi hotspots will be located near the RAE/TCS booth and along the windows overlooking the Potomac River.

Sponsored by:



Blue Room: Wave of the Future

Sponsored by:



RESTORE
AMERICA'S
ESTUARIES



Check out the first-ever Blue Room at the RAE/TCS/CBF booth in the Expo and Poster Hall. The Blue Room will provide a multimedia space for presenters and participants to share opinions, ideas, opportunities, and meaningful stories of impact in three to five minutes or less. Communications professionals are invited to use the space for recorded interviews and speakers and participants are encouraged to drop-in. Blue Room recordings will be highlighted on YouTube. Visit the Blue Room to share your story of impact, interesting discoveries, new opportunities, innovative efforts, and bold ideas for the future. Contributions will help amplify the impact of the Summit beyond the walls of the Gaylord.

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: Community Engagement and Education (CE); Policy and Planning (PP); 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 180 posters and talk with the poster presenters during our special Poster Session Happy Hour: **Monday, November 3, 5:30 pm – 7:30 pm.**

Exhibitor List

Alphabetical by Company/Organization



RESTORE
AMERICA'S
ESTUARIES



AECOM

Booth # 623

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American Littoral Society

Booth # 411

Lead Contact: Alek Modjeski
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alek@littoralsociety.org
www.littoralsociety.org

Anacostia Watershed Society

Booth # 424

Lead Contact: James Foster
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www.anacostiaws.org

AquaTech Eco Consultants, LLC

Booth # 210

Lead Contact: Beau Williams
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ARCADIS

Booth # 308

Lead Contact: Robert Daoust
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Association of National Estuary Programs

Booth # 625

Lead Contact: Lore O'Hanlon
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www.nationalestuaries.org

Atlantic Coastal Fish Habitat Partnership

Booth # 211

Lead Contact: Lisa Havel
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www.atlanticfishhabitat.org

Audubon Louisiana

Booth # 626

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Battelle

Booth # 712

Lead Contact: Mark Curran
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Biohabitats

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Brown and Caldwell

Booth # 821

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CDM Smith

Booth # 717

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CH2M HILL

Booth # 420

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Chesapeake Bay Foundation

Booth # 404

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Chesapeake Bay Program

Booth # 825

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Coalition to Restore Coastal Louisiana

Booth # 519

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Coastal & Estuarine Research Federation

Booth # 419

Lead Contact: Mark Wolf-Armstrong
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Coastal Revitalization, LLC

Booth # 725

Lead Contact: Peter Alexander
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pfalexla@gmail.com

Coastal States Organization

Booth # 220

Lead Contact: Mary Munson
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www.coastalstates.org

Coastal Wetlands Planning, Protection, and Restoration Act (CWPPRA)

Booth # 706/707

Lead Contact: Susan Testroet-Bergeron
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bergerons@usgs.gov
www.lacoast.gov/new/About

Coasts, Oceans, Ports, and Rivers Institute

Booth # 218

Lead Contact: Tom Chase
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Conservation Law Foundation

Booth # 413

Lead Contact: Peter Shelley
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CSS-Dynamac

Booth # 222

Lead Contact: Bill Johnson
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Dial Cordy and Associates

Booth # 217

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Ducks Unlimited

Booth # 621

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Dynamic Solutions, LLC

Booth # 817

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EarthCorps

Booth # 409

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EarthShare

Booth # 523

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Exhibitor List



RESTORE
AMERICA'S
ESTUARIES



EcoAnalysts, Inc.

Booth # 320

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www.ecoanalysts.com

ecoGENESIS, LLC

Booth # 809

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www.ecogenesisllc.com

Ecology and Environment, Inc.

Booth # 827

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www.ene.com

Environmental Defense Fund

Booth # 521

Lead Contact: Steve Cochran
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Environmental Law Institute

Booth # 722

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ERT

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ESA

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Fishing for Energy Program

Booth # 422

Lead Contact: Courtney McGeachy
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Galveston Bay Foundation

Booth # 619

Lead Contact: Robert Stokes
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George Hatcher Photography

Booth # 713

Lead Contact: George Hatcher
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Great Ecology

Booth #215

Lead Contact: Sara Stevens
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Great Lakes Dredge & Dock Company

Booth # 723

Lead Contact: William Hanson
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whanson@gldd.com
www.gldd.com

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Contact:

Steve Petron | 603-898-0732

Stephen.Petron@CH2M.com

The CH2M HILL Vision:

- **Integrate.** Combine global knowledge and local expertise to address the issues of our complex and dynamic coastal ecosystems
- **Restore.** Rebuild and revitalize sustainable habitats
- **Monitor.** Dynamic system-wide monitoring to evaluate project effectiveness and ecosystem changes
- **Protect.** Sustain healthy ecosystems and promote resilient communities in partnership with local, state and federal stakeholders

Around the world and close to home, CH2M HILL employees provide the full spectrum of consulting, design, design-build, operations and program management services to restore and protect our nation's coasts.

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Coastal Wetlands Planning, Protection, and Restoration Act

Restoring Coastal Louisiana Since 1990

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www.LaCoast.gov



facebook.com/CWPPRA

Managing Agencies:



Gulf of Mexico Program - EPA

Booth # 823

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HDR

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ICF International

Booth # 216

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IMSG

Booth # 319

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LightHawk

Booth # 317

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Louisiana Office of Coastal Protection and Restoration

Booth # 520

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Maryland Department of Natural Resources

Booth # 208

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MWH

Booth # 423

Lead Contact: Anothony (Tony) Risko
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National Aquarium

Booth # 221

Lead Contact: Laura Bankey
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National Fish Habitat Partnership

Booth # 622

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National Oceanic and Atmospheric Administration

Booth # 403

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National Park Service

Booth # 321

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Exhibitor List



RESTORE
AMERICA'S
ESTUARIES

The Coastal Society

**National Parks
Conservation Association**
Booth # 525

Lead Contact: Chad Lord
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clord@npca.org
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National Wildlife Federation
Booth # 417

Lead Contact: Adam Kolton
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**Newmark Grubb
Knight Frank**
Booth # 309

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North Carolina Coastal Federation
Booth # 418

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PSEG
Booth # 310

Lead Contact: Russell Furnari
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russell.furnari@pseg.com
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Reef Ball Foundation
Booth # 727

Lead Contact: Larry Beggs
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Restore America's Estuaries
Booth # 404

Lead Contact: Harvey Potts
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Save The Bay - Narragansett Bay
Booth # 518

Lead Contact: Jonathan Stone
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www.savebay.org

Save The Bay - San Francisco
Booth # 614

Lead Contact: Donna Ball
(510) 463-6850
dball@savesfbay.org
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**Save the Sound, a
program of Connecticut
Fund for the Environment**
Booth # 612

Lead Contact: Curt Johnson
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www.ctenvironment.org/save-the-sound

SeaPlan
Booth # 323

Lead Contact: Andy Lipsky
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www.seaplan.org

Sterling Planet
Booth # 721

Lead Contact: Alden Hathaway
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ahathaway@sterlingplanet.com
www.sterlingplanet.com

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Exhibitor List



RESTORE
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ESTUARIES



T. Allen Marine

Booth # 715

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Tampa Bay Watch

Booth # 616

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Taylor & Francis

Booth # 311

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Taylor Engineering, Inc.

Booth # 316

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Tetra Tech

Booth # 313

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The Coastal Society

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The ELM Group

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The Nature Conservancy

Booth # 720

Lead Contact: Boze Hancock
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Tulane Institute on Water Resources Law and Policy

Booth # 318

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TYPAR Geosynthetics - a PGI brand

Booth # 813

Lead Contact: Greg Coles
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U.S. Army Corps of Engineers

Booth # 302

Lead Contact: Emily Vuxton
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U.S. Department of Agriculture, Natural Resources Conservation Service

Booth # 303

Lead Contact: Craig Goodwin
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U.S. Department of Transportation - Federal Highway Administration

Booth # 522

Lead Contact: Susan Cheung Jones
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U.S. Environmental Protection Agency - Office of Wetlands, Oceans, and Watersheds

Booth # 620

Lead Contact: Myra Price
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U.S. Fish and Wildlife Service - Coastal Program

Booth # 606

Lead Contact: Chris Darnell
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www.fws.gov/coastal

Washington Gas Energy Services

Booth # 716

Lead Contact: Karen Pinder-McDuffie
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Waterman Industries

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Woods Hole Group

Booth # 724

Lead Contact: Robert Hamilton
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We are proud to support Restore America's Estuaries blue carbon initiative to enable the inclusion of seagrass restoration in a CO2 emissions offset certification methodology.

The Ocean Foundation created the SeaGrass Grow! project to protect and restore seagrass habitats and provide voluntary opportunities to naturally offset greenhouse gas emissions in the ocean -- known as "Blue Carbon."

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www.seagrassgrow.org

Summit Details



RESTORE
AMERICA'S
ESTUARIES



Saturday
Community Restoration Project

Heritage Marsh Restoration in the Anacostia Watershed

8:30 am – 1:30 pm



You are invited to join Restore America's Estuaries, The Coastal Society, Chesapeake Bay Foundation, the Anacostia Watershed Society, and Dewberry as we restore Heritage Marsh.

If you live in, work in, or visit the metropolitan Washington, D.C. area, you probably spend time inside the Anacostia River watershed. This Summit's community restoration event will take place at "Heritage Marsh", a site where the Anacostia Watershed Society has been working the past 10 years to help restore tidal wetlands. The biggest threat to the marsh vegetation has been the overpopulation of the Resident Canada Geese (RCG), an introduced non-migratory subspecies of Canada Geese brought from the Midwest. RCG cause significant grazing impacts on the marsh vegetation leaving only mudflats thus affecting the valuable ecosystem services that the emergent vegetation provide. One successful technique has been to install "goose exclusion fencing", giving the marsh and natural ecosystem a fighting chance.

During this restoration event, Anacostia Watershed Society staff will lead volunteers to remove old fencing, separate reusable from non-reusable fence, install new fencing, and remove debris from the marsh. In doing so, volunteers will learn the history of the river and help restore this important ecosystem.

Sunday Field Sessions

Sponsored by:



Mattaponi Creek Canoe Exploration

Hosted by: Chesapeake Bay Foundation

Check in: 9:00 am **Depart:** 9:30 am **Return:** 2:30 pm

Living Shorelines Project Tour

Hosted by: Chesapeake Bay Foundation

Check in: 9:00 am **Depart:** 9:30 am **Return:** 2:30 pm

Exploring the Captain John Smith Chesapeake National Historic (Water) Trail on the Potomac

Hosted by: Chesapeake Bay Foundation

Check in: 9:00 am **Depart:** 9:30 am **Return:** 4:30 pm

Rock Creek Tributary at Waverly-Schuylkill Park, Garrett Park, MD

Hosted by: Tetra Tech, Inc. and Brightwater, Inc.

Check in: 9:00 am **Depart:** 9:30 am **Return:** 2:30 pm

Summit Details

Sunday Workshops & Trainings



RESTORE
AMERICA'S
ESTUARIES

The Coastal Society

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An Introduction to Blue Carbon for the Coastal Restoration and Management Community: Linking Climate Mitigation and Adaptation With Conservation

National Harbor 11

9:00 am – 4:30 pm

Pre-registration is required

Sponsored by:



This workshop will provide an introduction to blue carbon concepts, the voluntary carbon market, the science of GHGs in blue carbon ecosystems, barriers to implementation, and opportunities for coastal management. Participants will gain an understanding of blue carbon and how to apply it in the landscapes where they work.

Presenters:

- **Steve Emmett-Mattox**, *Restore America's Estuaries*
- **Steve Crooks**, *ESA*
- **Igino Emmer**, *Silverstrum*
- **Lisamarie Windham-Myers**, *U.S. Geological Survey*
- **Meagan Gonneea**, *U.S. Geological Survey*
- **J. Patrick Megonigal**, *Smithsonian Environmental Research Center*



Weaving Your Coastal Network: Environmental Leadership Program Training for Coastal Professionals

National Harbor 9

1:00 pm – 5:00 pm

Pre-registration is required

Are you new to the professional world of coastal management and restoration, or are you ready to reinvigorate your coastal network? This workshop, a special program of TCS, will be an intensive leadership, community, and network-building training program for coastal professionals, whether you are new to the field or an experienced practitioner seeking opportunities to build your network. Participants will reflect on their coastal management and restoration professional networks and will gain skills in recognizing, building, and utilizing their networks as they grow into coastal leaders. Participants will then have the opportunity to apply these skills through their participation in the TCS-RAE Summit. Offered by the Environmental Leadership Program, a nationally recognized leadership and professional development training program for emerging environmental practitioners.

Presenter:

- **Errol Mazursky**, *Environmental Leadership Program*



WATER GIVES LIFE TO OUR NATIONAL PARKS.

The National Parks Conservation Association—working to protect and restore America's most iconic wonders.



Summit Details

Sunday Workshops & Trainings (continued)



Coastal Community Resilience Training Course

Maryland 1

1:00 pm – 5:00 pm (Repeated on Thursday)

Pre-registration is required

This 4-hour Coastal Community Resilience course will assist to raise awareness of the hazards faced by coastal communities, the potential social, economic, and environmental impacts of these hazards, approaches to prevent or mitigate hazard impacts, and tools to increase resilience. The course will emphasize target capabilities to enhance preparedness for and response to natural disasters, demonstrate how to integrate risk and community-based collaborative strategies into plans and programs, and introduce tools that help communities assess individual risks and vulnerabilities.

This is a FEMA Certified course. This course is listed in the FEMA National Training and Education Division Catalog. It is taught by the National Disaster Preparedness Training Center at the University of HI.



RESTORE
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ESTUARIES



Implementing Marine Spatial Planning: Techniques and Strategies for Practitioners

National Harbor 10

1:00 pm – 5:00 pm

Pre-registration is strongly advised, walk-ins allowed if space is available

This interactive workshop will engage both new and seasoned marine spatial planning practitioners in discussion and activities which will explore the tools, techniques and strategies used to implement MSP. The workshop will include small group activities and large group discussion, providing practitioners with opportunities to share experiences and lessons learned through implementing MSP at a variety of scales and locations and addressing a wide range of issues and challenges. Topics that may be explored in detail include use of existing and new policy and regulatory tools; adaptive management; working with Tribal/First Nation peoples; and integrating climate resilience into MSP initiatives. The workshop will be facilitated by experienced MSP practitioners Jennifer McCann and Grover Fugate. McCann and Fugate led the development of the RI Ocean Special Area Management Plan and are currently leading an initiative to build the capacity of the MSP practitioner network.

This workshop is supported by the Gordon and Betty Moore Foundation and the RI Sea Grant College Program.

Pre-registration is strongly advised because we have a limited number of seats available even though there is no fee for the workshop.

Speakers:

- **Jennifer McCann**, CRC and Extension Programs for RI Sea Grant
- **Grover Fugate**, RI CRMC Executive Director
- **Jennifer Hennessey**, WA State Department of Ecology
- **Kristine Cherry**, Governors' South Atlantic Alliance

Summit Details

Sunday Workshops & Trainings (continued)



RESTORE
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ESTUARIES

The Coastal Society

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Chesapeake Bay Clean-Up Effort – Are We on Track?

Maryland Ballroom

4:30 pm – 6:00 pm

Pre-registration is not required

The Chesapeake Bay is listed as an impaired waterway and as a result, in 2010, EPA gave each state within the watershed a pollution load limit for nitrogen, phosphorus, and sediment. By 2017, the States must have 60% of the practices and programs in place and, by 2025, they need to have 100% in place. Hear from the experts about the clean-up effort and what needs to be done to meet the 2017 goal.

Moderator: Will Baker, *Chesapeake Bay Foundation*

Invited Speakers:

- **Administrator Gina McCarthy**, *EPA*
- **Governor Martin O'Malley**, *State of MD*
- **Attorney General Mark Herring**, *Commonwealth of VA*
- **President Mark Tercek**, *TNC*



**Protecting America's waters from the Great Lakes to the
Gulf of Mexico, the Puget Sound to the Chesapeake Bay.**

Learn more: nwf.org/water

 **@NWFwater**

Photo: Texas Department of Transportation

Summit Details

Monday Plenary Session

8:30 am – 10:30 am

Maryland Ballroom

Sponsored by:



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Welcome

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

Lisa Schiavinato, *President, The Coastal Society*

William Baker, *President, Chesapeake Bay Foundation*

Marc J. Hershman Keynote Address

Taken by Storm: America's Impending Resilience Revolution

Dr. Susanne Moser, *Susanne Moser Research and Consulting*

The 2014 Summit theme “*Inspiring Action, Creating Resilience*,” has particular resonance for coastal regions of the U.S. as they struggle with planning for the effects of climate change, severe weather, overdevelopment, chronic and episodic contaminants, and so on. This highly-dynamic Keynote presentation will set the stage for three days of dialogue across the coastal management community regarding our ability to define and create more resilient communities. Dr. Moser will draw upon her social science and climate change expertise to highlight how we can best face, and adapt to, multiple challenges such as sea level rise, coastal erosion, and societal values. She will explore the impact of today's decisions on coastal communities of tomorrow and, amid rapid change, how we can ensure the improved health of our natural coastal systems.



Dr. Susanne Moser is Director and Principal Researcher of Susanne Moser Research and Consulting in Santa Cruz, CA. She is also a Social Science Research Fellow at the Woods Institute for the Environment at Stanford University, and a Research Associate at the University of CA-Santa Cruz, Institute for Marine Sciences. Dr. Moser's work focuses on adaptation to climate change,

vulnerability, resilience, climate change communication, social change, decision support, and the interaction between scientists, policy-makers,

and the public. She is a geographer by training with interests in how social science can inform society's responses to this global challenge. She has worked in coastal areas, urban and rural communities, with forest-reliant communities, and on human health issues. Dr. Moser contributed to Working Group II of the Intergovernmental Panel on Climate Change's Fourth and Fifth Assessment Reports and served as Review Editor on the IPCC's Special Report on “Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation.” She is also a Convening Lead Author for the coastal chapter of the Third U.S. National Climate Assessment (NCA), and a member of the federal advisory committee to the NCA.

Presentation of the Nancy Foster Conservation Award



Eileen Sobeck, *Assistant Administrator, NOAA National Marine Fisheries Service*
NOAA established the 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 winner.



Blue Room: Wave of the Future

Stop by the RAE/TCS/CBF booth in the Expo Hall and check out the first-ever Blue Room. The Blue Room will provide a multimedia space for presenters and participants to record video, take photos, and check-out what's happening on social media. From sharing ideas and success stories or just talking a quick selfie with new friends and special props, plan to visit the Blue Room in the Expo Hall.

All are encouraged to visit, and communications professionals are invited to use the space for recorded interviews. Blue Room recordings will be highlighted on YouTube. Visit the Blue Room to share your story of impact, interesting discoveries, new opportunities, innovative efforts, and bold ideas for the future. Contributions will help amplify the impact of the Summit beyond the walls of the Gaylord.

Join the Conversation Online: **#RAETCS14**. Participants are encouraged to tag their posts, photos, and tweets.

The Largest Program Ever and a New Look

In our continued effort to reduce waste and paper we have condensed the concurrent session descriptions to the following tables, where all the sessions that are happening for a given time slot are displayed in one easy to read format. Session rooms and titles can be found along the top, while session chairs, moderators, and presenters are listed in the lower portion.

Additional details, including individual abstracts and coauthors, and the most up-to-date information can be found in the program app, which is available via **www.RAETCS14.sched.org** or scan the QR code below!



	National Harbor 10 (NH-10)	National Harbor 11 (NH-11)	National Harbor 12 (NH-12)	National Harbor 13 (NH-13)	Chesapeake AB (CH-AB)	Chesapeake DE (CH-DE)
Session	<p>A Softer Approach: An Introduction to Living Shorelines</p> <p>Property owners with a shoreline affected or threatened by erosion have a range of options from armoring and hardened approaches to “softer” approaches, including living shorelines. This session provides perspectives on implementation, design, funding, and science to kick off the Summit’s living shorelines track.</p>	<p>A Systems Approach to Geomorphic Engineering</p> <p>The Systems Approach to Geomorphic Engineering (SAGE) is a community of practice that facilitates the development and application of hybrid engineering approaches to develop and apply innovative techniques and holistic solutions. This session will address four key areas of SAGE: general overview; state of science; policy and funding; and outreach.</p>	<p>Coastal Zone Management: Empowering Local Communities to Enhance Coastal Resilience</p> <p>State coastal programs, local officials, and other key stakeholders around the county are actively working towards building resilient coastlines to better protect our homes, businesses, and livelihoods. This panel highlights success stories of federal and state/local partnerships through the coastal zone programs and how they build and maintain coastal resiliency.</p>	<p>Innovative Tools That Enhance Management and Restoration</p> <p>Technology provides numerous opportunities to better understand and advance coastal and estuarine restoration and management. This session highlights some of the latest and greatest tools that can improve your practice.</p>	<p>New Insights in Restoring the Chesapeake Bay: Science-Based Evidence for Water Quality Improvements, Challenges, and Opportunities</p> <p>This session will provide an overview of management practices and water quality improvements in the Chesapeake Bay watershed. Three themes will be discussed: 1) what practices are proven effective; 2) challenges that impede progress; and 3) innovations needed to address intensified agriculture and rapid population growth.</p>	<p>Acidifying Our Estuaries – Global Problems, Local Effects</p> <p>The threat of acidification in our nation’s estuaries and coastal waters, caused by factors such as increased atmospheric carbon dioxide, eutrophication, and upwelling, is growing both in severity and recognition. This session will present an overview of research on current and projected patterns of acidification and its effects in U.S. estuaries and coastal waters.</p>
Details	<p>MODERATOR: Tim Dillingham, <i>American Littoral Society</i></p> <ul style="list-style-type: none"> Elements of Success: Lessons From a Decade of Restoration Project Identification, Cultivation, and Implementation Stephanie Buffum, <i>Friends of the San Juans</i> A Primer on Coastal Engineering for “Living Shorelines” Scott Douglass, <i>University of South Alabama</i> Living Shorelines A Grantor’s perspective after 100 Projects! Tom Leigh, <i>Chesapeake Bay Trust</i> Living Shorelines can Enhance the Nursery Role of Threatened Coastal Habitats Rachel Gittman, <i>University of North Carolina at Chapel Hill Institute of Marine Sciences</i> 	<p>CHAIR: Susan Taylor, <i>ABT Associates</i></p> <ul style="list-style-type: none"> Overview of SAGE Margaret Davidson, <i>NOAA</i> Science To Support Coastal Resilience: The Role of Natural Systems Denise Reed, <i>The Water Institute of the Gulf</i> Implementing SAGE: Planning, Policies, and Funding Erik Meyers, <i>The Conservation Fund</i> SAGE Communication Tools Pamela Mason, <i>Virginia Institute of Marine Science, College of William and Mary</i> 	<p>CHAIR: Lindsey Kraatz, <i>Coastal States Organization</i></p> <ul style="list-style-type: none"> Building More Resilient Coastal Communities: Impact of State Coastal Management Programs and Partnerships Mike Friis, <i>Wisconsin Department of Administration</i> Maryland’s CoastSmart Communities: Helping MD’s Local Communities Plan for SLR, Coastal Hazards, and the Next Sandy Kate Skaggs, <i>MD DNR</i> Building Capacity and Furthering Community Resilience Through Regional Planning, Local Projects, and the Support of the CZM Program Jennifer Jurado, <i>Broward County Natural Resources Planning and Management Division</i> The HI Ocean Resources Management Plan: Integrated Collaboration and Partnerships Across Multiple Jurisdictions Leo Asuncion, <i>HI CZM Program</i> Coastal Zone Management: A Tool to Advance Gulf of Mexico Restoration and Resilience Sara Gonzalez-Rothi Kronenthal, <i>National Wildlife Federation</i> 	<p>MODERATOR: Dennis Kamber, <i>ARCADIS</i></p> <ul style="list-style-type: none"> EPA’s New “Being Prepared for Climate Change” Workbook for Creating Risk-Based Adaptation Plans Michael Craghan, <i>EPA</i> High and Low Marsh Habitat and SAV Mapping, Vulnerability, and Responses to SLR in the Southern Albemarle-Pamlico Sound Estuary System Margaret Garner, <i>East Carolina University</i> Marsh Analysis and Planning Tool Incorporating Tides and Elevations (MAPTITE): A Geospatial Tool for Estuary Restoration Lijuan Huang, <i>NOAA</i> Threatened Protection: The Status of Coastal Protected Areas on the Atlantic Seaboard Margaret Walls, <i>Resources for the Future</i> 	<p>CHAIR: Scott Phillips, <i>USGS</i></p> <ul style="list-style-type: none"> Efforts to Reduce Nutrients and Sediment to Achieve Water Quality Improvements in the Chesapeake Bay Katherine Antos, <i>EPA</i> Science-Based Evidence for Water Quality Improvements, Challenges, and Opportunities in the Chesapeake Bay Ecosystem William Dennison, <i>University of MD Center for Environmental Science</i> Factors Delaying and Counteracting Water Quality Response to Management Practices Scott Phillips, <i>USGS</i> Adaptive Management, Innovation, and Monitoring Insights for the Chesapeake Bay Watershed Christina Lyerly, <i>MD Department of the Environment</i> 	<p>CHAIR: Denise Breitburg, <i>Smithsonian Environmental Research Center</i></p> <ul style="list-style-type: none"> Ocean Acidification Observing Systems: Local to Global Jan Newton, <i>Applied Physics Laboratory, University of WA</i> Two Sides of the Same Coin: Seasonal Acidification and Hypoxia in U.S. East Coast Estuaries and How It May Impact Organisms Hannes Baumann, <i>University of CT, Department of Marine Sciences</i> Ocean Acidification Meets the Shoreline: How Will Our Coastal Marshes and Seagrasses Respond? Tom Arnold, <i>Dickinson College</i> Vulnerability of Estuarine Waters to Acidification Due to Eutrophication and Uptake of Anthropogenic Carbon Dioxide Wei-Jun Cai, <i>School of Marine Science and Policy, University of DE</i>

12:30 pm - 2:00 pm Lunch on your own or get your lunch and join the Brown-Bag Wellness Session

Chesapeake GH (CH-GH)	Chesapeake JK (CH-JK)	Maryland 1 (MD-1)	Maryland 2 (MD-2)	Maryland 3 (MD-3)	Maryland 4 (MD-4)	Session
<p>Coastal Blue Carbon: State of the Science, Tools, and Methodologies</p> <p>This session will focus on an update from what was presented at the 2012 RAE conference detailing the progress on tools and methodologies for measuring or valuing coastal blue carbon, and will also include a summary of the remaining science gaps both for the U.S. as well as globally.</p>	<p>Best Practices of Stewardship in Action: Restoration Education for K-12</p> <p>Five environmental educators from different regions have joined to offer ideas and support to create a successful restoration program for students of all ages. Topics will include: development of long-term community investment; developing culturally appropriate relationships; communication through technology; handbooks, and newsletters; unique planting sites; monitoring methods; and funding.</p>	<p>Building Bridges Between Deepwater Horizon Restoration and the Long-Term Health and Resiliency of the Gulf of Mexico</p> <p>The influx of restoration and recovery funds following Deepwater Horizon represent a remarkable opportunity to increase the health and resiliency of the region through coordinated large-scale action. This session will explore how the recovery efforts are being linked with existing restoration, conservation, and resiliency planning efforts to maximize success.</p>	<p>Revitalizing the Great Lakes: How the Great Lakes Community is Collaborating to Protect and Restore the Great Lakes</p> <p>Learn how the Great Lakes region is working successfully to protect and restore the largest system of fresh water on earth. The Great Lakes Restoration Initiative (GLRI) is successfully focusing time, attention, and funding on shared restoration priorities leveraging existing programs to ensure restoration work is effective and successful.</p>	<p>Shellfish Restoration – What Works...and What's Been Learned</p> <p>The success – or failure – of shellfish restoration projects varies due to a host of factors. This session examines the ins and outs of what makes shellfish thrive, why engaging communities is critical, and lessons learned along the way.</p>	<p>Large-Scale Projects and Programs: Challenges and Opportunities</p> <p>Large-scale projects and programs offer a unique chance to make great strides. However, the sheer size and demands also bring different challenges that may not occur on smaller scales. This session examines a number of different aspects of large-scale projects and programs and how they can be planned and managed to increase the chance of success.</p>	
<p>CHAIR:</p> <p>Ariana Sutton-Grier, <i>NOAA</i></p> <ul style="list-style-type: none"> Combined Use of Multi-Sensor Remote Sensing for Improved Mapping of Blue Carbon Ecosystems Faiz Rahman, <i>University of IN</i> New Manual to Provide Standardized Methods for Field Measurements of Blue Carbon Jennifer Howard, <i>Moore Center for Science and Oceans, Conservation International</i> Remaining Priority Science Gaps to Advance Coastal Blue Carbon Steve Crooks, <i>ESA PWA</i> Enhancing Blue Carbon Mapping, Science, and Policy in North America Karen Richardson, <i>Commission for Environmental Cooperation</i> 	<p>CHAIR:</p> <p>Rani Henderson, <i>Galveston Bay Foundation</i></p> <ul style="list-style-type: none"> Developing Culturally Appropriate Relationships That Serve Communities in Which You Work Cheryl Bauer-Armstrong, <i>University of WI-Madison Arboretum</i> Interdisciplinary Approach/Restoration Site – Working With FL Water Management District and U.S. Air Force for Unique Planting Sites Martha Gruber, <i>Tampa Bay Watch</i> Communication Through Handbooks and Newsletters: Schools, Restoration Partners, and Benefactors Pamela B. Blanchard, <i>LA State University School of Education</i> Development of Long-Term Community Investment and Participation in Restoration Programs Karen Mullin, <i>Willowoak Group</i> Communication Through Technology and In-Person Presentations: Program Investments in School-Based Interactions Rani Henderson, <i>Galveston Bay Foundation</i> 	<p>CHAIR:</p> <p>Jordan Diamond, <i>Environmental Law Institute</i></p> <ul style="list-style-type: none"> Engaging Coastal Communities in Coastal Restoration and Resiliency Colette Pichon Battle, <i>Gulf Coast Center for Law and Policy</i> Linking Disaster-Specific and Existing State and Federal Restoration Processes David Roche, <i>Environmental Law Institute</i> Integrating Deepwater Horizon Restoration Processes With Large-Scale Ecosystem Planning, Monitoring, and Management Mark Davis, <i>Tulane University Law School</i> The Legal Framework for Restoration of the Gulf of Mexico Jordan Diamond, <i>Environmental Law Institute</i> 	<p>CHAIR:</p> <p>Chad Lord, <i>Healing Our Waters-Great Lakes Coalition</i></p> <ul style="list-style-type: none"> National and International Coordination of the Great Lakes Restoration Initiative Cameron Davis, <i>EPA</i> Ensuring Broad Stakeholder Engagement in the Great Lakes Restoration Initiative David Ullrich, <i>Great Lakes and St. Lawrence Cities Initiative</i> Building State and Local Partnerships to Ensure Restoration Success Nelson French, <i>MN Pollution Control Agency</i> Demonstrating the Economic Importance of Great Lakes Restoration Regionally Kathryn Buckner, <i>Council on Great Lakes Industries</i> 	<p>MODERATOR:</p> <p>Tom Bigford, <i>American Fisheries Society</i></p> <ul style="list-style-type: none"> Reintroducing the Eastern Oyster into One of the Largest Urban Estuaries in the World Beth Ravit, <i>Rutgers Center for Urban Environmental Sustainability</i> Protecting and Restoring Australia's "Great Southern Seascapes" Boze Hancock, <i>TNC</i> Promoting Oysters as Habitat: Using Citizen Scientists to Quantify Use of Oyster Reefs by Wading Birds Anna Toline, <i>NPS</i> Many Hands Make Great Work: Oyster Restoration and Monitoring in Northeast FL Gary Raulerson, <i>Guana Tolomato Matanzas NERR and FL Department of Environment</i> 	<p>MODERATOR:</p> <p>Robert Daoust, <i>ARCADIS U.S.</i></p> <ul style="list-style-type: none"> Too Big To Fail, Too Big To Succeed Christopher Dalbom, <i>Tulane Institute on Water Resources Law and Policy</i> Kenai Mountains to Sea – A Landscape-Scale Strategic Habitat Conservation Initiative on the Kenai Peninsula, AK David Wigglesworth, <i>USFWS, and Nathan Walker,</i> <i>Audubon</i> Two Decades of Progress Towards Restoring North San Francisco Bay Renee Spent, <i>Ducks Unlimited</i> Oregon's Estuary Management System – A Perspective View of More Than 35 Years of Estuary Planning and Management Patty Snow, <i>OR Coastal Management Program</i> 	Details

12:30 pm - 2:00 pm Lunch on your own or get your lunch and join the Brown-Bag Wellness Session

	National Harbor 10 (NH-10)	National Harbor 11 (NH-11)	National Harbor 12 (NH-12)	National Harbor 13 (NH-13)	Chesapeake AB (CH-AB)	Chesapeake DE (CH-DE)
Session	<p>Advancing Living Shorelines Implementation: Turning Institutional Barriers into Opportunities</p> <p>Living shorelines projects are one potential aspect of an adaptation strategy for climate change. The ability to actually implement this strategy locally, regionally, or nationally varies widely due to a number of impediments. A team of living shorelines experts has developed a draft report detailing specific, tactical actions that can be taken to address these challenges. Team members will provide introductory remarks with the bulk of the session devoted to interactive discussions between the team and audience members to elicit comments and feedback that will be considered in finalizing the report.</p>	<p>If You Build It, They Won't Come... Unless You Tell Them a Story: Tools for Promoting Your Work and Communicating To Engage</p> <p>In this four-part session, participants will gain an understanding of how to build a communications plan for their work and leave with a basic set of tools and tips that they can use to better engage their audience or community through web stories, visual storytelling, and traditional and social media. Each of the four speakers will offer some different insights on his or her own area of communications expertise.</p>	<p>Coast in the Crosshairs of Climate Change and SLR: Successful Adaptation in a World of Constraints and Tradeoffs</p> <p>The National Climate Assessment has identified key vulnerabilities for coastal regions and found early but inadequate efforts in adapting to coastal risks. The session will summarize these risks and propose a framework for successfully adapting to climate change. Panelists will discuss the difficult trade-offs, politics, and financial realities coloring adaptation.</p>	<p>Coastal Zone Management: Changes, Challenges, and Opportunities</p> <p>Much like the coastline itself, the nation's CZM is a dynamic process. This session will explore a little of the history of the nation's CZM, some of the challenges faced in coastal management, and a few of the approaches being used to address the needs of coastal management during a time of increasing and emerging threats.</p>	<p>Science Supporting the Resiliency and Long Term Sustainability of the Gulf of Mexico</p> <p>This session will be an interactive forum with developing science and restoration programs focused on the Gulf of Mexico. The audience will hear from each program about their status and goals, engage in a dynamic session of questions and responses, and contribute to the broader conversation of resiliency and sustainability in the Gulf.</p>	<p>Natural Capital: Valuing Nature-Based Features Along Our Coasts</p> <p>This session is crafted to help identify the barriers and opportunities in advancing the restoration, protection, and/or use of natural features along our coasts. In particular, it will focus on enhancing understanding of, in monetary terms insofar as possible, the benefits nature-based features provide as opposed to other methods of urban infrastructure and coastal defenses.</p>
Details	<p>CHAIR:</p> <p>Todd Miller, <i>NC Coastal Federation</i></p> <p>PANELISTS:</p> <ul style="list-style-type: none"> ■ Bill Cary, <i>Brooks Pierce</i> ■ Tim Dillingham, <i>American Littoral Society</i> ■ Kevin Dubois, <i>City of Norfolk, VA</i> ■ Niki Pace, <i>MS-AL Sea Grant Legal Program</i> ■ Tom Ries, <i>Scheda Ecological Associates</i> ■ Bill Ross, <i>Brooks Pierce</i> 	<p>CHAIR:</p> <p>Margaret Enloe, <i>Chesapeake Bay Program and Alliance for the Chesapeake Bay</i></p> <p>PANELISTS:</p> <ul style="list-style-type: none"> ■ Margaret Enloe, <i>Chesapeake Bay Program and Alliance for the Chesapeake Bay</i> ■ Catherine Krikstan, <i>Chesapeake Bay Program and Alliance for the Chesapeake Bay</i> ■ Will Parson, <i>Chesapeake Bay Program and Alliance for the Chesapeake Bay</i> ■ Jenna Valente, <i>Chesapeake Bay Program and Chesapeake Research Consortium</i> 	<p>PANELISTS:</p> <ul style="list-style-type: none"> ■ Margaret Davidson, <i>NOAA</i> ■ Susanne Moser, <i>Susanne Moser Research & Consulting</i> 	<p>MODERATOR:</p> <p>Tony MacDonald, <i>Urban Coast Institute at Monmouth University</i></p> <ul style="list-style-type: none"> ■ Coastal Zone Act Reauthorization Amendments of 1990 – A Critical Time for Coastal Management Gary Magnuson, <i>NOAA</i> ■ Coastal Zone Management: Alive, Dead, or Somewhere in Between? Linda Shead, <i>TX Coastal Partners and Shead Conservation Solutions</i> ■ Insights into Coastal Management Needs From NOAA's Customer Survey Chris Ellis, <i>NOAA</i> ■ Texas Coastal Infrastructure Resiliency Study - Risk Assessment and Project Identification Scott Hicks, <i>CB&I</i> 	<p>CHAIR:</p> <p>Mary Erickson, <i>NOAA RESTORE Act Science Program</i></p> <p>PANELISTS:</p> <ul style="list-style-type: none"> ■ Ben Scaggs, <i>Gulf Coast Ecosystem Restoration Council</i> ■ Chuck Wilson, <i>Gulf of Mexico Research Initiative</i> ■ Kim Waddell, <i>National Academy of Sciences Gulf Research Program</i> ■ Jonathan Porthouse, <i>National Fish and Wildlife Federation Gulf Benefit Program</i> ■ Mary Erickson, <i>NOAA RESTORE Act Science Program</i> 	<p>CHAIR:</p> <p>Kateryna Wowk, <i>NOAA</i></p> <ul style="list-style-type: none"> ■ Valuing Green Infrastructure – How Far Have We Come and Where Do We Go From Here? Holly Bamford, <i>NOAA</i> ■ Federal Perspective: Use of Valuation Information and Implementation of Plans for Nature-Based Features – Challenges and Opportunities Charles Chesnutt, <i>USACE</i> ■ City Planner Perspective: Use of Valuation Information and Implementation of Plans for Nature-Based Features – Challenges and Opportunities Alexandros Washburn, <i>Stevens Institute of Technology</i> ■ Coastal Developer Perspective: Use of Valuation Information and Implementation of Plans for Nature-Based Features – Challenges and Opportunities Dev Motwani, <i>Chieftrain Holdings, LP</i>

3:30 pm – 4:00 pm

Afternoon Coffee Break

Sponsored by: Battelle

Chesapeake GH (CH-GH)	Chesapeake JK (CH-JK)	Maryland 1 (MD-1)	Maryland 2 (MD-2)	Maryland 3 (MD-3)	Maryland 4 (MD-4)
Coastal Blue Carbon: Policy Drivers This session will focus on the applications of policy to support coastal blue carbon efforts and will include U.S. as well as international perspectives on needs and opportunities.	Submerged Aquatic Vegetation Projects – Impacts, Opportunities, and Lessons Learned SAV requires specific parameters in order to thrive. In this session, presentations examine projects and ongoing research that provide vital insights into restoring this valuable habitat.	Modeling Tools and Innovations: Advances in the Gulf of Mexico Models provide a critical way to help plan and implement projects. This session showcases four different modeling projects currently being developed and used in the Gulf of Mexico.	Going Green(er): Advances in Implementing More Nature-Based Infrastructure Elements By design, essential infrastructure must stand the test of time and elements, which often require “hard” aspects. This session examines how more nature-based solutions are being implemented to increase their value to the surrounding ecosystems.	Building Coastal and Marine Fishery Resilience Through Habitat Conservation Despite recent progress in ending overfishing, some fish stocks have failed to rebuild and are threatened by increasingly degraded coastal habitats. State and federal managers will discuss opportunities for building fishery resilience by integrating habitat data and objectives into effective fishery management decisions.	Marsh Restoration and Science Salt marshes are one of the most common and most impacted types of coastal habitat. This session examines lessons learned and the latest findings about marshes and marsh restoration.

Session

CHAIR: Brian Pawlak, NOAA	MODERATOR: Peter Clark, Tampa Bay Watch	MODERATOR: Joseph LeBlanc, LA CPRA	MODERATOR: Laurens Van der Tak, CH2M HILL	CHAIR: Terra Lederhouse, NOAA	MODERATOR: Leo Lentsch, ICF International
<ul style="list-style-type: none"> Coastal Blue Carbon Opportunities in U.S. Federal Policies: Policy Pilots Ariana Sutton-Grier, NOAA Carbon Markets and the New VCS Wetland Restoration Methodology Steve Emmett-Mattox, Restore America's Estuaries International Approaches to Blue Carbon Amanda McCarty, NOAA Blue Carbon Ecosystems as Climate Mitigation and Adaptation Tools: Offsetting Emissions and Enhancing Ecosystem Services Emily Pidgeon, Moore Center for Science and Oceans, Conservation International 	<ul style="list-style-type: none"> Ecological Modeling of Channel Deepening Effects on the Lower St. Johns River Ecosystem, FL David Stites, Taylor Engineering, Inc. After the Blooms: Is Seagrass Recovery in the Indian River Lagoon Recruitment Limited? M. Dennis Hanisak, FAU Harbor Branch Improving Site Selection for Seagrass Restoration Using Spatial Modeling of Ecological and Sociological Factors Althea Hotaling, University of FL Restoring FL's Changing Springs: Can Lost Aquatic Vegetation Thrive Again? Siobhan Gorham, FL Fish and Wildlife Research Institute 	<ul style="list-style-type: none"> Adapting a Coastal Ocean Model to Predict the Movement of an Oil Spill Slick in the Gulf of Mexico – Case Study: Lake Pontchartrain Gabriel Retana, Brown and Caldwell Large-Scale Restoration of the Mississippi River Delta in a Systems Context: Advancement of Modeling Tools Angelina Freeman, CPRA Davis Pond River Diversion Project: Pre- and Post-Diversion Trends for Salinity Intrusion and Nutrient Removal Andrew Stoddard, Dynamic Solutions, LLC An Adaptive Hydraulics Model to Support the Hydrologic Restoration of Cole's Bayou, Tech-Vermilion Basin, LA Stephen Sanborn, Dynamic Solutions, LLC 	<ul style="list-style-type: none"> Green Infrastructure, Eco-Logical, and Planning and Environmental Linkages Michael Ruth, Federal Highway Administration Nature-Based Coastal Management Strategies Teresa Doss, Biohabitats Using Natural and Conventional Infrastructure Strategies to Enhance Urban Coastal Resilience: A Case Study in Howard Beach, Queens Luce Bassetti, CH2M HILL Bulkhead Removal for Habitat Restoration in Puget Sound – A Growing Trend Jim Johannessen, Coastal Geologic Services 	<ul style="list-style-type: none"> Rebuilding Habitat-Limited Stocks Galen Tromble, NOAA From Rebuilding to Resiliency: Strategies for Sustainable Mid-Atlantic Fisheries Christopher Moore, Mid-Atlantic Fishery Management Council (MAFMC) Achieving Sustainable and Resilient Interstate Fisheries Through Habitat Conservation Toni Kerns, Atlantic States Marine Fisheries Commission Managing Chesapeake Bay's Land Use, Fish Habitat, and Fisheries James Uphoff, MD DNR 	<ul style="list-style-type: none"> Adaptive Management in Action: Restoration of the South San Francisco Bay Salt Ponds Laura Valoppi, USGS Microbial Sulfate Reduction and Sulfide Oxidation in Littoral Sediments of the Intermittent Pescadero Estuary Chandra Richards, University of CA, Berkeley Restoration of Tidally-Restricted Salt Marshes at Rumney Marsh: Balancing Flood Protection With Marsh Restoration by Use of Self-Regulating Tide Gates Edward L. Reiner, EPA Evaluating the Role of Emergent Wetlands in the Chesapeake Bay Region to Attenuate Storm Surge Seth Lawler, George Mason University

Details

3:30 pm – 4:00 pm

Afternoon Coffee Break

Sponsored by: Battelle

	National Harbor 10 (NH-10)	National Harbor 11 (NH-11)	National Harbor 12 (NH-12)	National Harbor 13 (NH-13)	Chesapeake AB (CH-AB)	Chesapeake DE (CH-DE)
Session	<p>Permitting Living Shorelines – Challenges and Opportunities</p> <p>This session will address challenges and opportunities for permitting living shorelines. Practitioners from MD, AL, and the USACE will discuss strategies for aligning permitting to allow for more streamlined approval of living shoreline projects.</p>	<p>The New Coastal Professional: Innovative Career Paths for Inspiring Action (A Mentoring Session Organized by TCS Education Committee)</p> <p>This session will highlight coastal professionals who have been integral to the development of new, independent, or innovative ventures as a means of inspiring action, creating resilience, and making a living. Professionals who have pursued careers outside of government, established non-profit organizations, or academia will tell their stories and share their successes and challenges.</p>	<p>Protecting Our Nation's Investments in Restoration: Making Good on the Promise of Long-Term Stewardship</p> <p>Perhaps the most difficult funding to secure for habitat restoration projects is for long-term stewardship (LTS); those funds required for maintenance and adaptive management of restoration sites over the long term. This discussion describes a new LTS program developed through the NOAA Restoration Center, and outlines a new national policy.</p>	<p>Adapting in a Changing World</p> <p>How should communities plan for and react to a changing climate? This session features four examples of how communities and planners are using data and tools to make decisions and develop strategies.</p>	<p>It's All Connected: Water Quality, Resources Infrastructure, and Climate Change</p> <p>Stormwater, water resources infrastructure, and climate change are all varying and interconnected parts of the world in which communities now exist. This session delves into the latest thinking about these topics and how solutions are being crafted to address them.</p>	<p>Large-Scale Oyster Restoration in Chesapeake Bay – The Whole Package: Setting Metrics, Planning, Implementation Monitoring, and Measuring Ecosystem Services</p> <p>Partners are combining forces to restore 377 acres of oyster sanctuary in Harris Creek, MD. These groups collaboratively developed oyster success metrics and a data-driven plan detailing suitable reef sites, along with cost, seed, and substrate requirements. Half the acreage has been constructed and completion is expected in 2015. Monitoring and ecosystem services valuation is ongoing. The partners will discuss their roles in this unfolding story.</p>
Details	<p>CHAIR: Jessica Grannis, <i>Georgetown Climate Center</i></p> <ul style="list-style-type: none"> ■ Introductory Context: Permitting Living Shorelines – Challenges and Opportunities Jessica Grannis, <i>Georgetown Climate Center</i> ■ Maryland's Living Shoreline Program Bhaskaran Subramanian, <i>MD DNR</i> ■ Implementation of the AL-MS Living Shorelines General Permit Niki Pace, <i>MS-AL Sea Grant, University of MS School of Law and Chris Boyd,</i> <i>Troy University</i> ■ Efforts to Communicate Permitting Requirements for Living Shorelines – USACE Regulatory Program Desiree Morningstar, <i>USACE</i> 	<p>CHAIR: Erika Washburn, <i>Lake Superior NERR</i></p> <ul style="list-style-type: none"> ■ Community Impact Program: Leveraging Partnerships to Promote Purpose Jill Farrell, <i>Piscataqua Region Estuaries Partnership</i> ■ Work on the Edge: Experiences of an Independent Coastal Researcher and Consultant Susanne Moser, <i>Susanne Moser Research & Consulting</i> ■ New York Harbor School: Coastal Stewardship Through Public School Students Murray Fisher, <i>NY Harbor Foundation</i> 	<p>CHAIR: John Flobeg, <i>NOAA</i></p> <ul style="list-style-type: none"> ■ Commencement Bay Stewardship Collaborative: How a Community-Based Ecosystem Approach Will Last into Perpetuity (How's That for Building Resilience...!) Keeley O'Connell, <i>EarthCorps</i> ■ Managing for Large-Scale and Long-Term: Restoration of the South San Francisco Bay Salt Ponds John Bourgeois, <i>CA State Coastal Conservancy</i> ■ Accomplishing Long-Term Stewardship With Federal Agencies as Part of a Strategy for Working Lands and Endangered Species Recovery Lisa Bellefond, <i>Puget Sound Partnership</i> ■ Standards and Practices for Calculating, Soliciting, and Managing Long-Term Stewardship for Conservation Projects: The Land Trust Alliance Perspective Heather Richards, <i>Piedmont Environmental Council</i> 	<p>MODERATOR: Douglas Janiec, <i>Sovereign Consulting</i></p> <ul style="list-style-type: none"> ■ Sea Level Rise and Coastal Hazards Planning on Kaua'i: Addressing Unique Challenges in Community Resiliency Ruby Pap, <i>University of HI Sea Grant College Program,</i> <i>and a representative from the Kaua'i Planning Department</i> ■ American Samoa Tsunami Study - an Example of Sustainable Land Use and Community Resiliency Following a Catastrophic Event Dan Savercool, <i>EA Engineering, Science, and Technology, Inc.</i> ■ Storm Surge Risk and Coastal Engineering Adaptations in a Changing Climate Kirk Bosma, <i>Woods Hole Group</i> ■ Using Scenario Planning for Integrated Coastal Adaptation Planning in Exeter, NH Paul Kirshen, <i>University of NH</i> 	<p>MODERATOR: Will Norman, <i>CDM Smith</i></p> <ul style="list-style-type: none"> ■ Adaptive Management Planning for Climate Change: Addressing Potential Impacts on Infrastructure Planning and Design Lisa Jeffrey, <i>Brown and Caldwell</i> ■ MS4 Permits as a Driver for Watershed Restoration Crystal Muller, <i>Brown and Caldwell</i> ■ South Carolina Stormwater Management Ponds: An Integrated Research and Outreach Collaborative M. Richard DeVoe, <i>SC Sea Grant Consortium</i> ■ Using Natural Processes to Reduce Nitrates: Maryland's First Woodchip Bioreactor Drew Koslow, <i>Midshore Riverkeeper Conservancy</i> 	<p>CHAIR: Stephanie Westby, <i>NOAA</i></p> <ul style="list-style-type: none"> ■ Policy Context and Goal Setting Eric Weissberger, <i>MD DNR</i> ■ Science Underpinning the Plan: Benthic Habitat Characterization Jay Lazar, <i>NOAA</i> ■ Science Underpinning the Plan: Oyster Population Survey Ward Slacum, <i>Versar, Inc.</i> ■ Creating and Implementing the Oyster Restoration Plan for Harris Creek Kim Gross, <i>USACE</i> ■ Community Participation Stephanie Westby, <i>NOAA</i> ■ Monitoring to Measure Against Success Criteria Ken Paynter, <i>Oyster Recovery Partnership</i> ■ Quantifying Ecosystem Service Impacts of Oyster Restoration Howard Townsend, <i>NOAA</i>

Chesapeake GH (CH-GH)	Chesapeake JK (CH-JK)	Maryland 1 (MD-1)	Maryland 2 (MD-2)	Maryland 3 (MD-3)	Maryland 4 (MD-4)
<p>Coastal Blue Carbon: Application in Estuaries</p> <p>This session will focus on practical examples to demonstrate the potential of coastal blue carbon. It will cover projects ranging from LA and NC, to the Puget Sound region, all of which seek to better understand the science and practice of coastal blue carbon with potential application to the restoration of coastal habitats.</p>	<p>Hurricane Sandy Resiliency Projects at NWRs</p> <p>This session focuses on Hurricane Sandy projects located at NWR from VA to New England. Projects fall into three categories: salt marsh platform enhancement, living shorelines, and assessment/monitoring. This session will introduce these efforts and will also include an opportunity for dynamic discussions about them. Please note that the first three presentations will be longer and the “ignite” portion presentations will be shorter.</p>		<p>Problem SOLVED?: Investigating the Spatial Dynamics of Social Values for Ecosystem Services in Coastal Contexts</p> <p>This session provides an overview of a GIS tool called “Social Values for Ecosystem Services” (SolVES) developed by the USGS to assess, map, and quantify values of ecosystem services. With this tool, decision-makers can identify high priority places and compare social and ecological data in coastal contexts.</p>	<p>Resilience: What Is It and How Do We Reach It?</p> <p>Resilience means something different depending on the context, speaker, and listener. This session delves into the meaning of resilience and what is being done to make communities and habitats more resilient in the face of climate change and all that it brings.</p>	<p>Inspiring Action: Engaging Citizens to Catalyze Change</p> <p>Engaging and motivating people can often be the hardest part in any project or program. This session provides examples of successful efforts and tools.</p>

Session

CHAIR:	CHAIR:		CHAIR:	MODERATOR:	MODERATOR:
<p>Steve Emmett-Mattox, <i>Restore America's Estuaries</i></p> <ul style="list-style-type: none"> Carbon Sequestration Potential of a Young Brackish Marsh Restoration Project Located in Eastern NC Michael Burchell, <i>NC State University</i> Snohomish Estuary Blue Carbon Tidal Wetland Assessment Danielle Devier, <i>Environmental Science Associates</i> Advancing Wetland Creation Projects in LA for Blue Carbon Brian Perez, <i>CH2M HILL</i> Grouping Estuary Restoration Projects for Carbon Markets - Efficiencies at Scale Igino Emmer, <i>Silvestrum</i> 	<p>Susan Adamowicz, <i>USFWS</i></p> <ul style="list-style-type: none"> Designing Shoreline Protection Projects on Chesapeake Marshlands NWR Refuge Complex Matt Whitbeck, <i>USFWS</i> Tidal Marsh Restoration Design at Prime Hook NWR in DE Susan Guiteras, <i>USFWS</i> Salt Marsh Erosion and Application of Living Shoreline Strategies in Narrow River, RI David Steven Brown, <i>TNC</i> “Ignite” rapid-fire talks: <ul style="list-style-type: none"> Salt Marsh Integrity Assessment Baseline Monitoring Results: 15 NWRs, ME to VA, 2012 - 2014 Susan Adamowicz, <i>USFWS</i> Tidal Marsh Restoration at Edwin B. Forsythe and Cape May NWR Paul Castelli, <i>USFWS</i> Oyster Reef Restoration at Chincoteague NWR in VA Kevin Holcomb, <i>USFWS</i> Measuring Tidal Wetland Resilience Across Region Five: Monitoring Protocol for Hurricane Sandy Mitigation Projects Georgia Basso, <i>USFWS</i> 		<p>Alisa Coffin, <i>Land Systems Research Consultants</i></p> <ul style="list-style-type: none"> Assessing Social Values in Coastal Ecosystems with SolVES Benson Sherrouse, <i>USGS</i> A Spatial Analysis of Social and Ecological Values of Channel Islands National Park Carena van Riper, <i>University of IL at Urbana-Champaign</i> Mash-Up in the Mission-Aransas NERR: Combining Social Science and GIS Methods to Aid Management Jarrod Loerzel, <i>NOAA and JHT</i> Stakeholder Perceptions of Resource Condition, Management, Access, and Use in Sarasota Bay, FL: Findings Across Values and Space Zachary Cole, <i>University of NC at Greensboro</i> 	<p>Tim Hillier, <i>CDM Smith</i></p> <ul style="list-style-type: none"> Coastal Barrier Resources System Map Modernization: Supporting Coastal Resiliency and Sustainability Katie Niemi, <i>USFWS,</i> and Cynthia Bohn, <i>USFWS</i> Resilience: Clarified and Quantified in the USACE Katherine Touzinsky, <i>USACE</i> Assessing Beach Nourishment as an Adaptation Approach to Increase Resiliency in Coastal MA Margot Mansfield, <i>MA CZM</i> Post-Tropical Cyclone Sandy's Water Level Frequency Analysis: A Critical Component of the Disaster Recovery Hazard Mitigation Efforts Frannie Bui, <i>CDM Smith</i> 	<p>Susan Testroet- Bergeron, <i>USGS</i></p> <ul style="list-style-type: none"> Saving Point Molate: How Citizen Action Stopped a Casino and Restored a Headland David Helvarg, <i>Blue Frontier Campaign</i> Offshore Fracking: How Undisclosed Offshore Fracking Practices Are Inadvertently Reshaping Coastal Zone Regulatory Frameworks Stefanie Sekich-Quinn, <i>Surfrider Foundation</i> Community Engagement and Outreach: Development of Best Management Practices to Address Conflicts Between Offshore Wind Development and Fisheries Peggy Farrell, <i>Ecology and Environment, Inc.,</i> and Brian Hooker, <i>Bureau of Ocean Energy Management (BOEM)</i> MyCoast-South Carolina—Enhancing Public Awareness of Coastal Hazards Through Citizen Engagement Dan Burger, <i>SC Department of Health and Environmental Control</i>

Details

5:30 pm – 7:30 pm Poster Session Happy Hour Sponsored by: Biohabitats

	National Harbor 10 (NH-10)	National Harbor 11 (NH-11)	National Harbor 12 (NH-12)	National Harbor 13 (NH-13)	Chesapeake AB (CH-AB)	Chesapeake DE (CH-DE)
Session	<p>Approaches for Environmentally Enhancing Coastal Shorelines and Structures for Improved Sustainability</p> <p>This session presents case-study examples across multiple scales that incorporate environmental sustainability in the design and maintenance activities associated with built and natural resources in coastal environments across the U.S. Presentations will discuss lessons learned during the design and implementation of these environmental restoration and management projects.</p>	<p>Conservation, Restoration, and Citizen Engagement Along the Nation's River – The Potomac</p> <p>This session will highlight the Potomac, its special place in America and in conservation history, and the river's watershed as an example of the breadth and depth of conservation and restoration in the 21st century. A wide variety of efforts and initiatives from headwaters to estuary will be explored through an integrated presentation by four individuals and a discussion involving all.</p>	<p>The Roles of Conservation and Protected Areas in Coastal and Estuarine Management and Restoration</p> <p>This session delves into the topics of protected areas and conservation and how they interrelate with planning, management, and restoration of coastal and estuarine habitats. The presentations provide international, federal, and state perspectives on this critical topic.</p>	<p>The Gulf of Mexico: Past, Present, and Future</p> <p>The Gulf of Mexico has been a critical part of our nation's industries, food sources, and economies. This session reflects on its history and how it should inform its future.</p>	<p>Communicating Restoration Success Stories to Maintain Support From Public Officials</p> <p>This session examines how to maintain federal support for restoration efforts in a time of tight budgets through effective communications. Attendees will hear nuts-and-bolts tips from a successful Great Lakes restoration campaign and learn about public opinion polling that provides a roadmap for how to communicate with voters-and public officials-about restoration successes.</p>	<p>Assessing the Resilience of Ecosystem Services: A Synthetic Framework for Ecological, Economic, and Social Dimensions</p> <p>Resilience exists in many forms, from ecological resilience, to economic, social, and community resilience. This session will explore how a bridge linking these different types of resilience can be built using an ecosystem services approach, which views ecosystems as natural assets providing services that support, sustain, and enrich human well-being.</p>
Details	<p>CHAIR: Burton Suedel, <i>USACE</i></p> <ul style="list-style-type: none"> Using Dredged Material Best Practices and Nature to Create River Island Habitat in Coastal LA Burton Suedel, <i>USACE</i> Building Oyster Reefs and Living Shorelines in Coastal AL Mary Kate Brown, <i>TNC</i> Cleveland Harbor Green Breakwaters Demonstration Project Cynthia Banks, <i>USACE</i> Case Studies on the Integration of Oyster Restoration with Coastal Infrastructure Tyler Ortego, <i>Wayfarer Environmental Technologies</i> 	<p>CHAIR: Jonathan Doherty, <i>NPS</i></p> <ul style="list-style-type: none"> The Potomac Over Time – History, Degradation, Early Conservation Milestones Jonathan Doherty, <i>NPS</i> Upstream in the Potomac Watershed Hedrick Belin, <i>Potomac Conservancy</i> The Urban Center of the Potomac James Foster, <i>Anacostia Watershed Society</i> The Lower Potomac Kristin Saunders, <i>MD DNR</i> 	<p>MODERATOR: Peter Shelley, <i>Conservation Law Foundation</i></p> <ul style="list-style-type: none"> Marine Protected Areas as a Restoration Option Lauren Wenzel, <i>NOAA</i> Natural Protected Areas Under Change and Uncertainty: The Tumbes Mangrove Sanctuary Case Camila Florez Bossio, <i>Freiburg University</i> Building a North American Marine Protected Area Network: Trilateral Efforts to Enhance and Strengthen Conservation of Biodiversity in Marine Habitats Itzia Sandoval, <i>Commission for Environmental Cooperation</i> Coastal Land Conservation in MD: Incorporating Climate Change Spatial Data into Land Conservation Policy and Conservation Easements Kelly Collins, <i>MD DNR</i> 	<p>MODERATOR: Ryan Fikes, <i>National Wildlife Federation (NWF)</i></p> <ul style="list-style-type: none"> The Power of Integrated Conservation Efforts Through Science and Restoration – The Future of the Gulf of Mexico Buck Sutter, <i>NOAA</i> Integrating Sound Science and Prudent Policy for a Healthy Gulf Coast Post-Deepwater Horizon David White, <i>NWF</i> RESTORE Act Implementation: NGO Recommendations for Restoration Project and Program Selection Carey Lynn Perry, <i>Coalition to Restore Coastal Louisiana</i> Restore America's Gulf of Mexico: Hope for the Future in Lessons From the Past Richard Charter, <i>The Ocean Foundation</i> 	<p>CHAIR: Jordan Lubetkin, <i>Healing Our Waters-Great Lakes Coalition</i></p> <ul style="list-style-type: none"> Restoration Messages That Resonate With Voters John Russonello, <i>Belden Russonello Strategists</i> Delivering Restoration Success Stories to Public Officials in the Field and in Washington, DC Gildo Tori, <i>Ducks Unlimited Great Lakes/Atlantic Region</i> Using Social Media to Amplify Success Story Messages to Targeted Audiences Anna Brunner, <i>Healing Our Waters-Great Lakes Coalition</i> 	<p>CHAIR: Cristina Carollo, <i>Harte Research Institute, TX A&M University - Corpus Christi</i></p> <ul style="list-style-type: none"> Coastal Change and Ecosystems Services: Towards a Better Understanding of Ecosystem Service Resilience Just Cebrian, <i>Dauphin Island Sea Lab</i> Building Disaster Resilience: Lessons From the Gulf Coast Ashley Ross, <i>Sam Houston State University</i> Social Resilience: Utility and Measurement Shona Paterson, <i>East Carolina University</i> Putting "System" Back into Ecosystem Services and Connecting the Resilience of Both David Yoskowitz, <i>Harte Research Institute, TX A&M University - Corpus Christi</i>

10:00 am – 10:30 am Morning Coffee Break Sponsored by: Battelle

Chesapeake GH (CH-GH)	Chesapeake JK (CH-JK)	Maryland 1 (MD-1)	Maryland 2 (MD-2)	Maryland 3 (MD-3)	Maryland 4 (MD-4)
<p>Linking Blue Carbon Science to Practice at the Waquoit Bay NERR</p> <p>This session focuses on the science, stakeholder engagement, and practical applications to restoration of the Bringing Wetlands to Market Project being carried out at the Waquoit Bay NERR in MA. Participants who stay for all talks will get the most out of it.</p>	<p>Marsh Restoration: Techniques and Lessons Learned</p> <p>Marsh restoration involves a wide variety of physical conditions, which warrant an equally large number of techniques and approaches. This session focuses on what works and, as lessons learned are often as important, what did not.</p>	<p>The Application of Sediment Diversions for a Sustainable Delta</p> <p>This session focuses on the challenges and benefits related to sediment and freshwater diversions along the Mississippi River, including the motivation behind diversions; programmatic and regional approaches to implementation; the CPRA Master Louisiana Master Plan approach to implementation; detailed hydrodynamic and sediment transport modeling; and the associated engineering challenges.</p>	<p>Thinking Big: Real-World Examples of the Benefits, Challenges, and Lessons Learned From a Landscape-Scale Approach to Coastal Habitat Conservation</p> <p>Planning for coastal habitat conservation at a landscape-scale can yield significant ecological and economic benefits, but can be challenging. This session will provide an overview of the concept of landscape-scale conservation and delve into real-world examples of how this approach has been applied in four coastal watersheds across the country.</p>	<p>Show Me the Money – Innovative Funding Models to Deliver Needed Restoration Outcomes Faster, Cheaper, Better</p> <p>With increasingly dire restoration needs, a better project delivery mechanism is needed that can ensure better ecological and water quality outcomes. We will explore a range of project needs including small-scale urban stormwater retrofits on public land to large-scale restoration and banking efforts on privately owned lands. We will also look to explore obstacles and opportunities.</p>	<p>Resilience of Persistent Restored Seagrass Beds: Assessing Long-Term Seagrass Restoration Projects, Their Products, and Their Policies</p> <p>This session emphasizes persistence and resilience of restored seagrass ranging over sub-boreal Pacific to tropical Atlantic. Have the policies which made government demand restoration made the seagrasses in each area resilient? Have the policies worked to conserve these seagrasses resources and their fisheries and biodiversity eco-services?</p>
<p>CHAIR:</p> <p>Tonna-Marie Rogers, <i>Waquoit Bay NERR</i></p> <ul style="list-style-type: none"> Coastal Blue Carbon as a Restoration Incentive: Using Stakeholder Engagement to Link Science to Community Goals Tonna-Marie Rogers, <i>Waquoit Bay NERR</i> Quantifying Salt Marsh Blue Carbon: Research to Enable Calculation of Carbon and GHG Budgets Jianwu (Jim) Tang, <i>Marine Biological Laboratory</i> Blue Carbon as a Restoration Incentive: Application in the Herring River Restoration in Wellfleet, MA Timothy Smith, <i>Cape Cod National Seashore (NPS)</i> Economic Analysis of Coastal Blue Carbon: A Tool for Advancing Restoration of Coastal Ecosystems Thomas Walker, <i>Manomet Center for Conservation Sciences</i> 	<p>MODERATOR:</p> <p>Donna Ball, <i>Save The Bay, San Francisco</i></p> <ul style="list-style-type: none"> Habitat Restoration of Tidally Influenced Wetlands – What Didn't Work and Why! Thomas Ries, <i>Scheda Ecological Associates, Inc.</i> Comparing Salt Marsh Ecosystem Responses to Different Restoration Techniques Jim Dobberstine, <i>Lee College</i> Ecological Re-Engineering of a Fallow Agricultural Dikeland for Tidal Wetland Restoration in a Macro-Tidal System Tony Bowron, <i>CBWES Inc.</i> Restoring Historically Ditched Salt Marsh in a Mid-Atlantic Estuary: Application to SLR and Coastal Resiliency Chris Pfeifer, <i>Cardno ENTRIX</i> 	<p>CHAIR:</p> <p>Dennis Kamber, <i>ARCADIS</i></p> <ul style="list-style-type: none"> Hydrodynamic and Sediment Transport Modeling Using FLOW-3D for Siting and Optimization of the LCA Medium Diversion at White Ditch Randy Lagumbay, <i>ARCADIS</i> Lower Barataria Sediment Diversion Project - Summary of the Feasibility and Design Efforts at the 10% Stage - A Case Study David Escude, <i>ARCADIS</i> Development of Models and Tools for Planning for Sediment Diversions in a Systems Context - LA Joseph LeBlanc, <i>LA CPRA</i> Large-Scale Sediment Diversions: A Challenging and Essential Restoration Tool for LA Natalie Peyronnin, <i>Environmental Defense Fund</i> 	<p>MODERATOR:</p> <p>Helen Chabot, <i>NOAA</i></p> <ul style="list-style-type: none"> Landscape Conservation Design: Conserving Sustainable Landscapes for Natural Resources and People Rob Campellone, <i>USFWS</i> The Cape Fear River Partnership – A Model for Holistic Restoration of Migratory Fish Dawn York, <i>Cape Fear River Partnership and Dial Cordy and Associates</i> The Russian River Watershed Habitat Focus Area: A Place-Based, Objective-Driven Effort to Produce Significant Habitat Progress at a Landscape Scale Natalie Cosentino-Manning, <i>NOAA</i> Working With Coastal Communities at a Landscape Scale to Achieve Conservation Kim Hum, <i>TNC</i> 	<p>CHAIR:</p> <p>Ted Brown, <i>Biohabitats</i></p> <ul style="list-style-type: none"> Show Me the Money – Innovative Funding Models to Deliver Needed Restoration Outcomes Faster, Cheaper, Better Ted Brown, <i>Biohabitats</i> Private Investor/Advisor Model – Small-Scale Delivery to Meet New MS4 Requirements With Pay for Performance Conditions John Campagna, <i>Restore Capital</i> Private Equity Fund Model – Large-Scale Delivery to Fill the Supply Chain Nick Dilks, <i>Ecosystem Investment Partners</i> Turnkey Operators – Soup-To-Nuts Project Delivery George Kelly, <i>EBX</i> 	<p>CHAIR:</p> <p>Anitra Thorhaug, <i>Greater Caribbean Energy & Environment Foundation</i></p> <ul style="list-style-type: none"> The British Columbian Estuarine Experience in Canada: Seagrass Restoration Resilience Over Time and Policy for Restoration Cynthia Durance, <i>Precision Identification</i> The FL Seagrass Restoration Persistence and Resilience Over 40 years: Changing Policies for Sustaining Seagrasses Ecoservices Jeffrey Marcus, <i>Stantec</i> The TX Experience: Seagrass Restoration Resilience and Persistence Over Time and the TX Policies of Sustaining Seagrasses Charles Belaire, <i>Belaire Environmental, Inc.</i> The Jamaican Experience: Seagrass Restoration Resilience and Persistence and Jamaican Policies of Sustaining Seagrasses and Coastal Vegetation Barbara Carby, <i>Disaster Risk Reduction Center</i>

Session

Details

10:00 am – 10:30 am Morning Coffee Break Sponsored by: Battelle

	National Harbor 10 (NH-10)	National Harbor 11 (NH-11)	National Harbor 12 (NH-12)	National Harbor 13 (NH-13)	Chesapeake AB (CH-AB)	Chesapeake DE (CH-DE)
Session	<p>Monitoring and Assessment of Living Shorelines: Key Components in Informing Design and Evaluating Restoration Success Towards Adaptive Management</p> <p>Systematic monitoring is essential to evaluate the success of living shoreline projects as a form of shoreline protection and habitat restoration. This session will explore the development of universal metrics and a monitoring network for regional or national use on living shorelines to inform project designs and support adaptive management.</p>	<p>Exploring the Use of Natural Infrastructure in Areas Affected by Hurricane Sandy</p> <p>Following Hurricane Sandy there has been interest and activity in both understanding how natural infrastructure performed during Hurricane Sandy and how it can be used in the future to create coastal resilience and reduce risk to coastal populations. This session will examine the science, engineering, and policy behind this infrastructure.</p>	<p>Water: Too Much, Too Little...Almost Never Just Right</p> <p>Planning for and predicting water flows and patterns is critical to ensuring properly functioning ecosystems. The presentations in this session examine the wide breadth of challenges, along with tools and policies being developed to address these challenges.</p>	<p>Coastal and Marine Spatial Visualization and Planning: Approaches, Policies, and Tools</p> <p>Oceans and coasts provide tremendous resources to our communities, support numerous economic and recreational activities, and have many stakeholders. How can we best maximize the uses of our oceans and coasts while maintaining our precious resources? This session will explore international and national approaches to coastal and marine spatial planning. It will highlight financial, political, and technological challenges and opportunities.</p>	<p>Leveraging Carbon Markets to Support Ecosystem Restoration</p> <p>This session will explore the potential for carbon offset markets to fund estuarine restoration activities, particularly those that also improve water quality, with case studies that are underway.</p>	<p>Public-Private Partnerships: Harnessing Power Across Sectors</p> <p>Tapping into the strengths across sectors is vital to making programs and projects successful long-term. This session highlights examples of funding, collaborations, and approaches that make the most of these cross-sector partnerships.</p>
Details	<p>CHAIR: Donna Marie Bilkovic, <i>VA Institute of Marine Science</i></p> <ul style="list-style-type: none"> Practical Metrics for Living Shorelines Performance Monitoring on Sheltered Estuary Coasts, Chesapeake Bay Region Karen Duhring, <i>VA Institute of Marine Science</i> Monitoring Marsh-Sill Shoreline Stabilization Projects in NC: Results and Recommendations Carolyn Currin, <i>NOAA</i> Developing Hypothesis-Driven Monitoring Using Existing Data Joan Drinkwin, <i>Northwest Straits Foundation</i> Living Shoreline Project Monitoring in MS and AL Chris Boyd, <i>Troy University</i> 	<p>CHAIR: Paul Wagner, <i>White House Council on Environmental Quality</i></p> <ul style="list-style-type: none"> Habitat Restoration Approaches to Improve Community and Ecosystem Resiliency Richard Bennett, <i>USFWS</i> Examining Natural Infrastructure in the North Atlantic Coast Comprehensive Study Emily Vuxton, <i>USACE</i> Natural and Nature-Based Infrastructure Performance in Shoreline Projects in NY and NJ Jon Miller, <i>Stevens Institute of Technology</i> Conceptual Nature-Based and Gray Infrastructure for Flood Resiliency at Oakwood Beach, NY After Hurricane Sandy Matt Shultz, <i>Dewberry</i> 	<p>MODERATOR: Andrew Bohlander, <i>University of HI Sea Grant College Program</i></p> <ul style="list-style-type: none"> Incorporating Environmental Flows into Water Planning in TX: Balancing Water for the People and the Ecosystem in Galveston Bay, TX Emily Seldomridge, <i>Galveston Bay Foundation</i> Monitoring Current Patterns Within the Mission-Aransas and Guadalupe Estuaries, TX, With Tilt Current Meters Lindsay Scheef, <i>Mission-Aransas NERR</i> The Effect of Rapidly Changing Hydrology and Sheet Flow on a Marsh Restoration Project Lee Weishar, <i>Woods Hole Group</i> Hydrodynamic Modeling of a Tidal Estuary for Marsh Restoration and Optimization Prime Hook NWR, Milton, DE Todd DeMunda, <i>Atkins</i> 	<p>MODERATOR: Susan Farady, <i>University of New England</i></p> <ul style="list-style-type: none"> Application of a Suitability Assessment for Coastal Spatial Planning and Management in Korea Jiho Jung, <i>Korea Maritime Institute</i> Implementing the National Ocean Policy and Marine Spatial Planning Framework: Funding and Politics Sandra Whitehouse, <i>Ocean Conservancy</i> ShoreZone in Alaska, a Tool With Many Applications Cindy Hartmann Moore, <i>NOAA</i> 	<p>CHAIR: Beth McGee, <i>Chesapeake Bay Foundation</i></p> <ul style="list-style-type: none"> The Big Picture: Status and Opportunities for Agriculture, Forestry, and Other Land Use Projects in the U.S. Carbon Registries Debbie Reed, <i>Coalition on Agricultural Greenhouse Gases</i> Carbon Sequestration Benefits of Peatland Restoration at Pocosin Lakes, Great Dismal Swamp, and Alligator River NWR Sara Ward, <i>USFWS</i> The Chesapeake Carbon Reduction Fund: Using Carbon Offsets to Fund Projects That Improve Water Quality and Reduce GHGs Laura Pagliarulo, <i>Washington Gas Energy Services (WGES)</i> Evaluating the Potential for Nutrient Management Approaches to Reduce Nitrous Oxide Emissions and Generate Carbon Offsets Beth McGee, <i>Chesapeake Bay Foundation</i> 	<p>MODERATOR: Kal Stein, <i>EarthShare</i></p> <ul style="list-style-type: none"> The Clean Water State Revolving Fund: Flexible Funding for Watershed Protection and Restoration Projects Kelly Tucker, <i>EPA</i> Promoting Restoration on Public and Private Lands -- Just Like Peas and Carrots? Wendy Katagi, <i>CDM Smith</i> Evolution of the Gulf of Mexico Ecological Management Sites Program: An Information Exchange to Support Regional Conservation and Restoration Mikell Smith, <i>Gulf of Mexico Foundation</i> Comprehensive Planning for Freshwater Wetlands Will Help Direct Compensatory Mitigation Towards Most Impacted Freshwater Wetland Types in Tampa Bay Lindsay Cross, <i>Tampa Bay Estuary Program</i>

12:00 pm - 2:00 pm Lunch on your own or get your lunch and join one of the Brown-Bag Sessions

Chesapeake GH (CH-GH)	Chesapeake JK (CH-JK)	Maryland 1 (MD-1)	Maryland 2 (MD-2)	Maryland 3 (MD-3)	Maryland 4 (MD-4)
<p>Approaches and Tools to Support Watershed-Scale Fish Passage Restoration</p> <p>Access to spawning and rearing habitat is a significant limiting factor for diadromous fish. Given the scope of the problem, how can we maximize the impact of our fish passage restoration efforts? We will discuss new tools and approaches to support fish passage restoration at a watershed-scale, including on-the-ground examples.</p>	<p>The Human Element in Restoration and Management</p> <p>Humans are an inextricable part of the landscape and ecosystem, with all that entails. This session explores the anthropological, historical, and societal contexts for coastal and estuarine restoration and management in a changing world.</p>		<p>Successes and Lessons Learned in Community Engagement</p> <p>This session provides great examples of how to engage various segments of communities to meet restoration and management program goals. Come hear great success stories along with key lessons learned.</p>	<p>Chesapeake Bay Sentinel Site Cooperative: Leveraging Resources to Improve Community Resilience</p> <p>The Chesapeake Bay Sentinel Site Cooperative (CBSSC) leverages existing data-collection infrastructure and a strong community of practice to help decision-makers improve resilience of coastal communities, habitats, and economies. Focused monitoring at specific sites throughout a geographic area, the CBSSC collects and communicates critical information for coastal management and habitat restoration.</p>	<p>International Perspectives on Tropical Coastal and Estuarine Restoration and Management</p> <p>Tropical ecosystems require unique techniques, programs, and policies for their restoration and management. This session features presentations from around the world that showcase these approaches.</p>
<p>CHAIR:</p> <p>Melanie Harris, <i>NOAA</i></p> <ul style="list-style-type: none"> The U.S. Department of Energy (DOE) Basin Scale Opportunity Assessment Initiative: Investigating Opportunities to Improve Hydropower and Environmental Outcomes in U.S. River Basins Simon Geerlofs, <i>Pacific Northwest National Laboratory</i> From the Sea to the Summit: Working Toward the Historic Reintroduction of Salmon to California's Sierra Nevada Mountains Curt Aikens, <i>Yuba County Water Agency</i> Using the Chesapeake Fish Passage Prioritization Web Map and Tool to Prioritize Dams for Fish Passage Projects in the Chesapeake Bay Watershed Erik Martin, <i>TNC</i> Restoring Migratory Fish Habitat in the Patapsco River Watershed Through a Series of Dam Removals: Union Dam, Simkins Dam, Bloede Dam, and Daniels Dam Serena McClain, <i>American Rivers</i> 	<p>MODERATOR:</p> <p>Linda Manning, <i>The Council Oak</i></p> <ul style="list-style-type: none"> What Does Social-Ecological System Resilience Really Mean? Enhancing Our Understanding With Information From a Community-Based Collaborative Project Katherine Johnson, <i>University of MD College Park</i> Samish Traditional Ecological Knowledge and Wisdom: From Songs, Stories, and Practices to Environmental Restoration on Cypress Island, WA Christine Woodward, <i>Samish Indian Nation</i> A Maritime Cultural Landscape for the Outer Banks of NC Paul Ticco, <i>NOAA</i> Restorative Landscaping in a Coastal Ecosystem: Living Shorelines Rosmarie Lohnes, <i>Helping Nature Heal, Inc.</i> 		<p>MODERATOR:</p> <p>Linda Maxson, <i>Linda J Maxson Consulting</i></p> <ul style="list-style-type: none"> Natural Stewards: Partnering With NC Watermen in Abandoned Fishing Gear Removal Ladd Bayliss, <i>NC Coastal Federation</i> From Handouts to Hands-On: Building the Demand and Supply for Landscapes and Hardscapes That Prevent Pollution and Restore Coasts and Estuaries Paul Herzog, <i>Surfrider Foundation</i> Engaging Communities in Resiliency Efforts Post-Hurricane Sandy Lauren Klonsky, <i>CDM Smith</i> Finding Balance at the OR Coast: Insights on Science, Policy, and Management of Coastal Erosion and Shoreline Armoring Meg Gardner, <i>OR Coastal Management Program and OR Parks and Recreation Department</i> 	<p>CHAIR:</p> <p>Christine Gallagher, <i>NOAA</i></p> <ul style="list-style-type: none"> Sentinel Site Cooperatives Leverage Metadata to Foster Collaboration and Inform Strategic Investments Philippe Hensel, <i>NOAA</i> Understanding Wetland Vulnerability to Climate Change: An Analysis of Water Levels and Plant Species Composition in a Tidal Freshwater Marsh Patricia Delgado, <i>Jug Bay Wetlands Sanctuary</i> Development of an Open Source Tidal Datums Calculator Christopher Paternostro, <i>NOAA</i> Monitoring Wetland Elevation Capital Over Large Spatial Scales Using Real-Time GPS Laura Mitchell, <i>USFWS</i> Does <i>Kosteletzkya pentacarpos</i> Facilitate Upland Transition to Salt Marsh? Linda Blum, <i>University of VA</i> 	<p>MODERATOR:</p> <p>Nicole Adimey, <i>USFWS</i></p> <ul style="list-style-type: none"> Resilience and Restoration: A Holistic Approach to Coral Reef Conservation in the U.S. Virgin Islands Kemit-Amon Lewis, <i>TNC</i> Remote Sensing Method of Coral Reef Ecological Health Change: A Case Study in Southwest Coast of Leizhou Peninsula, South China Shuisen Chen, <i>Guangzhou Institute of Geography</i> Coral, Seagrass, and Mangrove Mitigation Associated With Port Expansion Projects William Precht, <i>Dial Cordy & Associates, Inc.</i> From Practice to Policy: Mainstreaming an Ecological Approach to Coastal Ecosystem Restoration and Management, Community Leadership in El Salvador Nathan Weller, <i>EcoViva</i>

Session

Details

12:00 pm - 2:00 pm Lunch on your own or get your lunch and join one of the Brown-Bag Sessions

Summit Details

Tuesday Lunch Sessions



*Brown-Bag Lunch Session: Latitude 41 –
Breaking Barriers to Regional Estuarine
Restoration From the Bronx to the Cape*

Maryland Ballroom

12:30 pm – 1:30 pm

Pre-registration is not required

Our estuaries form regional coastlines that share challenges and common objectives. Flying east from the Bronx along Latitude 41 for 260 miles we encompass three major estuaries – Long Island Sound, Narragansett Bay, and Cape Cod - Buzzards Bay. They share a history of early settlement, urbanized development, and host of coastal issues. The panelists will reflect on common threats and opportunities and the imperative for regional action. Bring your lunch and join us for a lively discussion!

Key Presenter and Panel Facilitator:

- **Curt Spalding**, *EPA Region I*

Panelists:

- **Curt Johnson**, *Save The Sound (Long Island Sound)*
- **Jonathan Stone**, *Save The Bay (Narragansett Bay)*
- **Paul Niedzwiecki**, *Cape Cod Commission*



RESTORE
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*NOAA Habitat Blueprint Brown-Bag
Lunch Discussion: What Are Focus Areas Anyway?*

Maryland 5-6

12:30 pm – 1:45 pm

Pre-registration is not required

All Summit attendees are invited to join this lunch side-session to learn more about the 10 NOAA Habitat Focus Areas that have been selected around the country since November 2012. You will be able to exchange ideas, explore opportunities for collaboration, and build partnerships. Representatives from NOAA leadership and many of the Focus Areas will be available to answer questions.



*Brown-Bag Lunch Wellness Session: Tapping
into the Stillness of Nature: Change Your
Perspective Without Leaving Your Chair*

Chesapeake I

12:50 pm – 1:50 pm

Sponsored by: Happy Spirit Yoga Therapy

Pre-registration is not required

The Japanese call it “Forest Bathing,” and science has confirmed that spending time in nature is super good for our health. Find out how you can set work aside to fully embrace nature “as is” and connect to its stillness and peace. Learn how to steady your mind and bring your favorite natural setting with you anywhere.

Coastal Rendezvous

Expo and Poster Hall

6:00 pm – 10:00 pm

Free for Summit Registrants/Guest Tickets \$40

Join your coastal colleagues for some world-class networking and great music! Catch up with existing colleagues and forge new partnerships while overlooking the beautiful Potomac River. Held in the Poster and Expo Hall, you will also have a chance to visit with exhibitors and check out any posters you may have missed during Monday's poster session. Appetizers and cash bar will be available.



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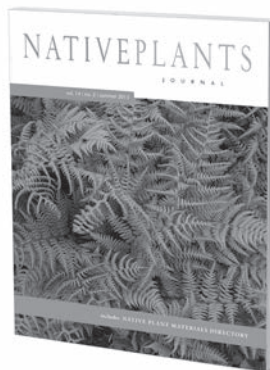
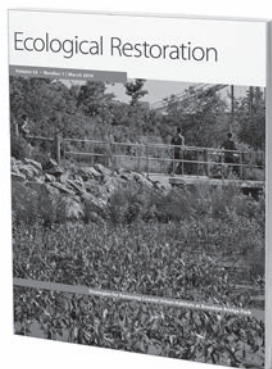
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Ecological Restoration

The Original Restoration Publication

Edited by Steven N. Handel

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Published 4 times per year

Ecological Restoration is a forum for people interested in all areas of ecological restoration. It features the technical and biological aspects of restoring landscapes, as well as emerging professional issues, the role of education, evolving theories of post-modern humans and their environment, land-use policy, the science of collaboration, and more. The quarterly publication offers peer-reviewed feature articles, short notes, and book reviews as well as abstracts of pertinent work published elsewhere.

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Education and Outreach in Ecological Restoration, 28 #2

Climate Change and Restoration, 27 #3

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Landscape Journal

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	National Harbor 10 (NH-10)	National Harbor 11 (NH-11)	National Harbor 12 (NH-12)	National Harbor 13 (NH-13)	Chesapeake AB (CH-AB)	Chesapeake DE (CH-DE)
Session	<p>Living Shorelines: Challenges and Opportunities for NOAA's Regulatory, Science, and Project Management Roles</p> <p>NOAA encourages the use of living shorelines techniques on a site-by-site level, as appropriate, to stabilize shorelines, create resiliency, and preserve and improve habitat value and ecosystem services along the coastline. We will present a variety of programs sponsored by NOAA that influence living shorelines projects.</p>	<p>Lessons Learned From Marine Planning Practitioners: Transferring Knowledge, Building the Network</p> <p>In this innovative session, the facilitator, Jennifer McCann, will engage a diverse panel of professionals in interactive discussion and Q&A about their marine planning experiences, with the goal of facilitating learning among both practitioners and the audience. Practitioners will have lessons learned to share with each other and the audience.</p>	<p>Collaborative Approaches to Coastal Restoration and Resiliency: Best Practices, Lessons Learned, and Moving Forward</p> <p>When it comes to the resiliency of our coasts, there is not a one-size-fits-all solution. This Roundtable Discussion focuses on the collaborative nature of successful coastal projects from a living shoreline to sustainable sediment management, and highlights how the key to resiliency is collaboration. We have gathered together a number of experts in the fields of coastal geology and engineering who have all successfully executed coastal restoration and sediment management projects. All of the projects share a collaborative nature and various levels of buy-in required to create success. Each panelist will focus on best practices, lessons learned, and forthcoming (or ongoing) projects.</p>	<p>Strategies for the Future: Restoration, Resiliency, and Improved Management Through the National Ocean Policy</p> <p>Ocean users, decision makers, and conservationists must develop and enact new strategies to ensure ecosystem conservation, habitat restoration, and climate resiliency. The session co-chairs will lead participants in an open and interactive "coffee house" workshop session meant to educate, question, and illuminate strategies through the National Ocean Policy to improve resiliency and coastal restoration efforts. This session will briefly introduce participants to the National Ocean Policy, its restoration and resiliency components, and spend the majority of time engaging participants in a discussion of how practitioners and managers can help shape implementation of the National Ocean Policy.</p>	<p>Watershed Restoration Methods and Case Studies</p> <p>Widespread hydrologic modifications of coastal watersheds cause significant degradation of estuary habitat and water quality due to increased stormwater runoff. This session showcases the application of a watershed restoration planning strategy in several coastal watersheds in NC whose estuaries have been impaired by different types of hydrologic modification.</p>	<p>Bridges Over Troubled Water: IOOS and Inundation</p> <p>Join us for a series of rapid and engaging presentations about how the U.S. Integrated Ocean Observing System (U.S. IOOS) and its partners are building bridges between scientists and stakeholders to address flooding in coastal and Great Lake communities by improving predictions of storm surge, improving observations and developing user products.</p>
	<p>CHAIR:</p> <p>Janine Harris, <i>ERT Contractor for NOAA</i></p> <ul style="list-style-type: none"> Essential Fish Habitat and Living Shorelines: Balancing Ecological Tradeoffs David O'Brien, <i>NOAA</i> National Estuarine Research Reserves as Platforms for Improving Our Knowledge and Understanding of "Living Shorelines" Emilie Hauser, <i>NY State Department of Environmental Conservation</i> Preliminary Design Consideration for Living Shoreline Projects Dan Van Nostrand, <i>NOAA</i> Post-Sandy Assessment of Living Shorelines: Valuing the Multiple Benefits Provided by Green Infrastructure to Improve Coastal Resilience Pete Wiley, <i>NOAA</i> 	<p>CHAIR:</p> <p>Jennifer McCann, <i>RI Sea Grant College Program/Coastal Resources Center</i></p> <p>PANELISTS:</p> <ul style="list-style-type: none"> Kris Ohleth, <i>Mid-Atlantic Regional Council on the Ocean</i> Rick Devoe, <i>SC Sea Grant Consortium</i> Jennifer Hennessey, <i>WA Department of Ecology</i> Grover Fugate, <i>Coastal Resources Management Council</i> 	<p>CHAIR:</p> <p>Paul Eickenberg, <i>HESCO Bastion, Inc.</i></p> <p>PANELISTS:</p> <ul style="list-style-type: none"> Gene Peck, <i>Viridian Alliance, Inc.</i> Eric Stern, <i>Environmental Adaptive Strategies, LLC</i> Craig Taylor, <i>Limno Tech</i> James H. Kirby, III, <i>The November 9th Group</i> 	<p>CO-CHAIRS:</p> <p>Sarah Winter Whelan, <i>American Littoral Society, and</i> Jennifer Felt, <i>Conservation Law Foundation</i></p>	<p>CHAIR:</p> <p>Todd Miller, <i>NC Coastal Federation</i></p> <ul style="list-style-type: none"> Coastal Watershed Restoration Guidebook Alyce Kanabrocki, <i>NC Coastal Federation</i> The Engineering Behind the Novel Stormwater Volume Reduction Method Hunter Freeman, <i>Withers & Ravenel</i> Stormwater Volume Reduction in Large Watersheds, NC Erin Carey, <i>City of Wilmington, NC</i> Restoring Wetlands to Meet NC Coastal Water Quality Standards: When Is Enough, Enough? Erin Fleckenstein, <i>NC Coastal Federation</i> 	<p>CHAIR:</p> <p>Zdenka Willis, <i>NOAA</i></p> <ul style="list-style-type: none"> Alaska Ocean Observing System (AOOS) – Arctic Coastal Erosion and Inundation: The Wave of the Future... Molly McCammon, <i>AOOS</i> Northeast Regional Association of Coastal Ocean Observing Systems (NERACOOS) – What's Modeling Got To Do With It? Inundation Modeling in the Northeast Ru Morrison, <i>NERACOOS</i> Mid-Atlantic Regional Association Coastal Ocean Observing System (MARACOOS) – Toto, I've Got a Feeling We're Not in Kansas Anymore... What To Do About Severe Weather in Coastal Areas Gerhard Kuska, <i>MARACOOS</i> Southern California Coastal Ocean Observing System (SCCOOS) – Making a Splash: Using Real Time Data for Managing Inundation for Coastal Management Eric Terrill, <i>SCCOOS</i> Pacific Island Ocean Observing System (PacIOOS) – Flooding in Paradise: Forecasting Inundation in the Pacific Islands Heather Kerker, <i>PacIOOS</i> Great Lakes Observing System (GLOS) – The Ups and Downs of the Great Lakes: Adaptively Managing Changing Lake Levels Bill Werick, <i>GLOS</i> Life in Hurricane Alley: Regional Inundation Maps for the Caribbean Aurelio Mercado-Irizarry, <i>University of PR at Mayagüez</i> Southeast Coastal Ocean Observing Regional Association (SECOORA) – Red Waves, White Waves, Blue Waves: Measuring Waves to Protect Community Debra Hernandez, <i>SECOORA</i> When, Where, and How: Predicting Storm Surge Jesse Feyen, <i>NOAA</i> Northwest Association of Network Ocean Observing System (NANOOS) – Stormy Weather: Using Observations to Lower Risks in the Pacific Northwest Jan Newton, <i>NANOOS</i>
Details						

3:30 pm – 4:00 pm

Afternoon Coffee Break

Sponsored by: Battelle

Chesapeake GH (CH-GH)	Chesapeake JK (CH-JK)	Maryland 1 (MD-1)	Maryland 2 (MD-2)	Maryland 3 (MD-3)	Maryland 4 (MD-4)
<p>Long-Term, Large-Scale Restoration: Big Effort, Big Payoff</p> <p>Taking the larger and longer path brings with it successes and challenges. This session highlights examples from around the country, including their successes and lessons learned.</p>	<p>Improving Water Quality: We Know What We Want, But How Do We Get There?</p> <p>Improving water quality demands a multi-faceted approach. This session showcases program, policies, and techniques that have been successful in making on-the-ground improvements in water quality.</p>	<p>Planning for Climate Change: Research, Policy, Data, Leadership, and Legal Implications</p> <p>This session will explore many different aspects of planning for climate change: on the state level, community level, in the maritime infrastructure sector, and in the courtrooms. What are the best ways to communicate about climate change for effective adaptation?</p>	<p>Oyster Restoration: Challenges, Opportunities, and Approaches</p> <p>Shellfish restoration involves, and is affected by, a myriad of factors. This session focuses on challenges, techniques, and strategies that have impacted restoration of this important habitat.</p>	<p>Is My Estuary Feeling Okay? How the NFHP Habitat Assessments Can Inform Decisions on Estuary Habitat – The Big Picture</p> <p>Nearly everyone who works in coastal habitat wants to know how their estuary or coasts is doing, whether their aquatic habitat is in trouble or could be in the future, and what and where should something be done about it. This session, the first of two, will explore the basis for the National Fish Habitat Partnership (NFHP), the science and data basis, and the status of our nation's estuaries.</p>	<p>Coastal Restoration in the Natural Resource Damage Assessment and Restoration Program</p> <p>Presentations feature Natural Resource Damage Assessment and Restoration projects along the Pacific, Atlantic, and Great Lakes coasts, emphasizing challenges and successes of bridging coastal land management objectives of NWRs and other land-holding partners with restoration projects designed to restore resources injured by hazardous substance releases and oil spills.</p>

Session

<p>MODERATOR:</p> <p>Greg Meyer, <i>University of NC at Wilmington</i></p> <ul style="list-style-type: none"> Managing for Large-Scale and Long-Term: Restoration of the South San Francisco Bay Salt Ponds John Bourgeois, <i>CA State Coastal Conservancy</i> The Salt River Ecosystem Restoration Project – Community-Based Watershed Restoration From the Mountains to the Sea Jeff McCreary, <i>Ducks Unlimited</i> The Great Lakes Restoration Initiative: Implementation at the Local Watershed-Scale, Maumee Area of Concern, OH – Successes and Challenges Patrick Lawrence, <i>University of Toledo</i> Sarasota Bay Restoration: “The Best Kept Secret” Mark Alderson, <i>Sarasota Bay Estuary Program</i> 	<p>MODERATOR:</p> <p>Bill Shadel, <i>Interstate Environmental Commission</i></p> <ul style="list-style-type: none"> Successes and Challenges in Restoring Water Quality Via Volunteer-Based Programs Erica Guttman, <i>WA State University Extension</i> Raising the Bar for Conservation With Farmers: How to Improve Water Quality, Farm Productivity, and Leverage Financial Resources Effectively Stephanie Eisenbise, <i>Chesapeake Bay Foundation</i> Engineered Ecosystems: A Cyborg Approach to Ecosystem Restoration – Grand Lake St. Mary's Littoral Wetland Restoration Christopher Overcash, <i>KCI Technologies, Inc.</i> Improving Coral Reef and Island Resilience by Addressing Land Based Sources of Pollution Paul Sturm, <i>Ridge to Reefs</i> 	<p>MODERATOR:</p> <p>Kristen Fletcher, <i>Fletcher Coastal Consulting</i></p> <ul style="list-style-type: none"> Research, Planning, and Policy Efforts to Support SLR Adaptation in HI: An Update From the NOAA Coastal Storms Program Andrew Bohlander, <i>University of HI Sea Grant College Program</i> Gap Analysis for Implementation of Hazard Science into the Community Dennis Hwang, <i>University of HI Sea Grant College Program</i> Building Leadership for Climate Adaptation: A Review of Approaches and Assessment of Applicability to the Maritime Infrastructure Sector Austin Becker, <i>University of RI, Department of Marine Affairs</i> Public Health, the Police Power, and Constitutional Takings: Using Public Health Connections to Promote Coastal Adaptation to Climate Change Robin Craig, <i>University of UT, S.J. Quinney College of Law</i> 	<p>MODERATOR:</p> <p>Serra Herndon, <i>Tampa Bay Watch</i></p> <ul style="list-style-type: none"> Recreational Boating and Oyster Reef Restoration: Compatible or Not? Linda Walters, <i>University of Central FL</i> Restoration on the Half-shell Todd Janeski, <i>VA Commonwealth University (VCU)</i> Innovative Oyster Reef Restoration in Matagorda Bay, TX Julie Sullivan, <i>TNC</i> Landscape Context Affects the Evolution and Ecosystem-Service Delivery of “Living Shoreline” Oyster Reefs Joel Fodrie, <i>University of NC at Chapel Hill</i> 	<p>CHAIR:</p> <p>Gary Whelan, <i>MI DNR</i></p> <ul style="list-style-type: none"> The NFHP Road – Linking System Processes to the Future Condition of Our Nation's Aquatic Habitat Gary Whelan, <i>MI DNR</i> U.S. Fish Habitat Data Within Reach Andrea Ostroff, <i>USGS</i> A Standardized Framework to Assess the Condition and Stresses of Estuary Ecosystems at Regional Scales Kristan Blackhart, <i>NOAA</i> National Assessment of Fluvial Habitats: Developing Approaches to Protect and Restore Rivers, the Life Blood of Estuaries Dana Infante, <i>MI State University</i> 	<p>CHAIR:</p> <p>Susan Kennedy, <i>U.S. Department of the Interior</i></p> <ul style="list-style-type: none"> Aquatic Habitat Restoration in Grand Calumet River Area of Concern, Lake County, IN: Implementation, Monitoring, and Long-term Sustainability James Smith, <i>IN Department of Environmental Management</i> The Athos I Oil Spill and the John Heinz NWR Marsh Restoration Project, Philadelphia, PA Al Rizzo, <i>USFWS</i> The Athos I Oil Spill and Natural Resource Damage Assessment: Incident, Scaling, and Restoration Alternatives Sherry Krest, <i>USFWS</i> Natural Resource Damage Assessment Restoration Projects for the Cosco Busan Oil Spill in San Francisco Bay Janet Whitlock, <i>USFWS</i>
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Details

3:30 pm – 4:00 pm

Afternoon Coffee Break

Sponsored by: Battelle

	National Harbor 10 (NH-10)	National Harbor 11 (NH-11)	National Harbor 12 (NH-12)	National Harbor 13 (NH-13)	Chesapeake AB (CH-AB)	Chesapeake DE (CH-DE)
Session	<p>Living Shorelines: Approaches and Assessments</p> <p>Where can living shorelines be used? How effective are they? What are they worth? These are some of the many questions that will be answered in this living shorelines session.</p>	<p>Preparing for the Next Storm: What Katrina and Sandy Taught Us About the Flood Risk Reduction Benefits of Natural Shorelines</p> <p>After Hurricanes Katrina and Sandy, affected regions have increased their focus on natural shorelines. Through an interactive conversation with experts from New Orleans and New York City, this session will explore how communities can maximize use of living shorelines as a strategy for risk reduction and resilience.</p>	<p>Replacing Aging Infrastructure and Enhancing Habitat – Opportunities for the Downtown Seattle Waterfront</p> <p>This session will describe how the City of Seattle has developed a science-based, partnership approach to creatively enhance habitat in an urban setting for the Elliott Bay Seawall Project and ultimately set the stage for a major transformation of the Seattle waterfront.</p>	<p>Digital Coast: Bringing Resilience to Local Communities</p> <p>This session will provide a few examples of recent activities and products within the Digital Coast that are focused on improving resilience at the local level. These activities range from interactive visualization tools to on-the-ground projects helping communities incorporate climate change adaptation concepts into hazard mitigation planning.</p>	<p>New Paradigms in Resource Management to Promote and Build Coastal Resilience</p> <p>This session highlights challenges Anne Arundel County, MD faces with 530 miles of shoreline; discusses benefits/lessons learned from best practices; identifies restoration approaches that adapt to changing coastal conditions; describes the need to reevaluate old resource management ideas; and ends with the use of coastal planning and adaptive management strategies that build coastal resilience.</p>	<p>Working Across Boundaries and Borders: Restoration and Management in Practice</p> <p>Ecosystems do not recognize political boundaries. As a result, their management and restoration requires cross-border efforts in order to be effective. This session highlights projects and programs that have successfully brought partners together to bring about change.</p>
Details	<p>MODERATOR:</p> <p>Jana Davis, <i>Chesapeake Bay Trust</i></p> <ul style="list-style-type: none"> Shoreline Stabilization at MacDill Air Force Base: An Ecosystem-Based Solution Peter Clark, <i>Tampa Bay Watch</i> Bio-Engineered Oyster Reef Living Shoreline Demonstration Project in St. Bernard Parish, LA Dean Goodin, <i>Tetra Tech, Inc.</i> 10 Years Later - A Retrospective Investigation of Design Elements Used to Develop Successful Living Shorelines in AL Kari Servold, <i>University of South AL</i> Development of a Standard Assessment Protocol for Shoreline Habitat Values in the NY-NJ Harbor Estuary Kate Boicourt, <i>Hudson River Foundation</i> 	<p>CO-CHAIRS:</p> <p>Kara E. Reeve and Sara Gonzalez-Rothi Kronenthal, <i>National Wildlife Federation;</i> Jessica Grannis, <i>Georgetown Climate Center and Harrison Institute for Law</i></p> <p>PANELISTS:</p> <ul style="list-style-type: none"> Mike Marella, <i>New York City Department of City Planning</i> Scott G. Davis, <i>U.S. Department of Housing and Urban Development</i> Adam Freed, <i>TNC</i> Paul Wagner, <i>White House Council on Environmental Quality</i> Natalie Peyronnin, <i>Environmental Defense Fund</i> Jordan Fischbach, <i>RAND Corporation</i> 	<p>CHAIR:</p> <p>Heather Page, <i>Anchor QEA, LLC</i></p> <ul style="list-style-type: none"> Challenges and Opportunities for Restoring Nearshore Habitat in Downtown Seattle, WA Peter Hummel, <i>Anchor QEA, LLC</i> Mitigating Negative Effects of Seawalls and Piers on Juvenile Pacific Salmon Along an Urban Waterfront – Effects of Adding Structure and Light Stuart Munsch, <i>University of WA</i> Methods and Approaches for Creating Habitat Enhancement in a Highly Urbanized Setting Merri Martz, <i>Tetra Tech, Inc.</i> Cohabitation: Designing a World-Class Urban Space for People, Co-Located With New Habitat for Endangered and Threatened Salmon Drew Gangnes, <i>Magnusson Klemencic Associates</i> 	<p>CHAIR:</p> <p>Lindsey Kraatz, <i>Coastal States Organization</i></p> <ul style="list-style-type: none"> Using Geospatial Technology to Address Climate Change Impacts: Results and Lessons Learned From a Digital Coast Fellowship Elizabeth Felter, <i>American Planning Association and Coastal States Organization</i> Coastal Resilience: Harnessing Habitat as a Natural Defense Against Hazards to Address Floodplain and Coastal Community Vulnerability Zach Ferdaña, <i>TNC</i> Updating Monterey County's Hazard Mitigation Plan - Lessons Learned Susan Fox, <i>The Baldwin Group at NOAA</i> Keeping Coastal Communities "Jersey Strong": Tools for Risk Awareness and Adaptation Planning Rick Lathrop, <i>Rutgers University</i> Product Aids Resilience By Identifying Potential Wetlands Rebecca Love, <i>The Baldwin Group at NOAA</i> 	<p>CHAIR:</p> <p>Joe Berg, <i>Biohabitats, Inc.</i></p> <ul style="list-style-type: none"> Coastal Plain Challenges, Current Restoration and Management Efforts, and Lessons Learned Janis Markusic, <i>Anne Arundel County Department of Public Works</i> Innovative Strategies and Adaptive Restoration Approaches for Tidal and Nontidal Areas Given Changing Coastal Conditions Darcy Turner, <i>Biohabitats, Inc.</i> A Perspective on Resource Management Fred Kelly, <i>Severn River Association</i> Moving Forward With Adaptive Strategies, and Promoting and Building Coastal Resilience in Resource Management Zoe Johnson, <i>MD DNR</i> 	<p>MODERATOR:</p> <p>Bryan Arroyo, <i>USFWS</i></p> <ul style="list-style-type: none"> Large-Scale Sustainable Fish and Wildlife Communities Through Habitat Restoration and Management in the Huron-to-Erie Corridor of the Great Lakes Mary Bohling, <i>MI Sea Grant Extension</i> Establishing the First Tribal National Park in the U.S. Chad Abel, <i>Red Cliff Band of Lake Superior Chippewa,</i> and Travis Olson, <i>Wisconsin Coastal Management Program</i> How We Are Building an International Wildlife Refuge in the Industrial Heartland James Boase, <i>USFWS</i> Wild Rice Restoration in the St. Louis River Estuary: Moving From Planning Today to Planting Tomorrow Mark Prancus, <i>Cardno JFNW</i>

6:00 pm – 10:00 pm

Coastal Rendezvous

Expo & Poster Hall

Chesapeake GH (CH-GH)	Chesapeake JK (CH-JK)	Maryland 1 (MD-1)	Maryland 2 (MD-2)	Maryland 3 (MD-3)	Maryland 4 (MD-4)
<p>Making Your Message Work: Communicating and Sharing More Effectively</p> <p>It's not enough for people to listen to words – they must really hear your message in order for it to be effective. This session provides unique and creative ways to make more messages more impactful so you can reach the desired outcomes.</p>	<p>How Do We Value Our Oceans and Coasts?</p> <p>This session will explore how we place value on our valuable resources during times of increasing threats. It will explore market values of oceanfront homes and tourism and the different methodologies for valuing estuaries, and how to value pollution impacts.</p>	<p>Is it Doing Any Good? Monitoring and Evaluation of Climate Adaptation Activities</p> <p>This interactive, facilitated session will explore examples of climate monitoring in coastal planning and management from attendees and projects on the ground, examine opportunities and challenges, and create a space for practitioners to discuss and develop ideas to support the evaluation of climate-smart strategies.</p>	<p>Coastal Wetland Loss: The Latest Trends and What's Being Done at National, State, and Watershed Scales</p> <p>Coastal watersheds of the continental U.S. are losing about 80,000 acres of coastal wetlands per year, an increase of 25% over the previous study period. This panel will highlight findings from recent studies on the nature and extent of coastal wetlands loss and ecologic condition. Engage in a discussion about what actions can be taken at the national, state, and local levels to reverse these trends.</p>	<p>A View of Estuarine and Coastal Habitat From the East and West Coasts</p> <p>Nearly everyone who works in coastal habitat wants to know how their estuary or coasts is doing, whether their aquatic habitat is in trouble or could be in the future, and what and where should something be done about it. This second of two sessions provides perspectives from the East and West Coasts about finer scale analyses of estuarine fish habitat and additional insights on how to prioritize habitat projects.</p>	<p>Ocean Frontiers II: A New England Story for Sustaining the Sea Film, Building Awareness and Support for Ocean Planning</p> <p>Join the filmmaker to view "Ocean Frontiers II: A New England Story for Sustaining the Sea". Learn how you can use the film to educate, inspire, and mobilize people around ocean planning. This session will feature a 30-minute screening of the film, followed by a discussion amongst the audience and a panel of experts working on regional ocean planning and the National Ocean Policy.</p>
<p>MODERATOR:</p> <p>Chad Nelsen, <i>Surfrider Foundation</i></p> <ul style="list-style-type: none"> Effective Communication Through Various Information Sources to Influence Attitudes and Behavior Mary Allen, <i>East Carolina University</i> Can You Hear Me? Effective Messaging Tips From Findings of a National Research Project K. Diane Hoskins, <i>Restore America's Estuaries</i> Telling Stories of Climate Resilience on the Great American Adaptation Road Trip Kirsten Howard, <i>NH Department of Environmental Services</i> and Allie Goldstein, <i>Ecosystem Marketplaces</i> Illusions of Science Delivery: Strategies for Overcoming the Implementation Bottleneck Kasey R. Jacobs, <i>Caribbean Landscape Conservation Cooperative (CLCC)</i> 	<p>MODERATOR:</p> <p>Lynette Cardoch, <i>HDR</i></p> <ul style="list-style-type: none"> Emergy Evaluation of the Total Pollution Load Management System in the Masan Bay Area in Korea Daeseok Kang, <i>Pukyong National University</i> Developing Indicators for a Resilient Tourism Sector Along the Central NC Coast and San Francisco Bay Areas Lou Nadeau, <i>ERG</i> Is the View Worth It? Michael Flynn, <i>East Carolina University</i> Individual Decision-Making and the Valuation of Varying Shoreline Protection Measures in Mobile Bay, AL Alyson Lewis, <i>East Carolina University</i> 	<p>CHAIR:</p> <p>Rachel Gregg, <i>EcoAdapt</i></p>	<p>CHAIR:</p> <p>Arleen O'Donnell, <i>ERG</i></p> <ul style="list-style-type: none"> Coastal Wetlands: Winning Some Battles but Losing the War? Susan-Marie Stedman, <i>NOAA</i> Delaware Wetlands: Status and Changes From 1992 to 2007 Mark Biddle, <i>DE DNR</i> and <i>Environmental Control, Watershed Assessment</i> Results From the National Wetland Condition Assessment and Implications for Coastal Wetland Management Gregg Serenbetz, <i>EPA</i> Building a Land Use and Wetlands Training Program for Local Decision Makers Erin O'Brien, <i>WI Wetlands Association</i> 	<p>CHAIR:</p> <p>Gary Whelan, <i>MI DNR</i></p> <ul style="list-style-type: none"> Successes and Challenges in Advancing Science for Aquatic Resource Conservation Across AK Jeff Davis, <i>Mat-Su Salmon Habitat Partnership Representative</i> Informing Estuary Resource Protection and Restoration Efforts Along the West Coast: The Pacific Marine and Estuarine Fish Habitat Partnership (PMEFHP) Nursery Assessment Lisa A. DeBruyckere, <i>PMEFHP</i> Between Waterfalls and Coral Reefs: Assessing the Overlooked Hawaiian Estuarine Fish Habitat Kimberly Peyton, <i>Hawaii Department of Land and Natural Resources - Division of Aquatic Resources</i> Conducting a Condition Assessment of Nearshore Fish Habitat in the Great Lakes Basin Catherine Riseng, <i>University of MI,</i> and Kevin Wehrly, <i>MI DNR</i> 	<p>CHAIR:</p> <p>Karen Ansbacher-Meyer, <i>Green Fire Productions</i></p> <p>PANELISTS:</p> <ul style="list-style-type: none"> Don Chapman, <i>Uncas Consulting Services</i> Sarah Winter Whelan, <i>American Littoral Society</i> Jennifer McCann, <i>RI Sea Grant College Program/Coastal Resources Center</i>

Session

Details

6:00 pm – 10:00 pm

Coastal Rendezvous

Expo & Poster Hall

Summit Details

Wednesday Plenary Session

The Future of Coastal Resilience - Innovations and Trends

8:30 am - 10:00 am

Maryland Ballroom

Our natural and built coastal resources are facing increasing threats and damages from climate change. Our society as a whole also struggles with the many risks associated with climate change. There is general agreement that we need to increase the resiliency of our coastal communities across all sectors, but trial and error dominates this emerging field. What new strategies are being tested, what can we learn from recent successes and failures, and what new innovations are required?

Join us for a highly energetic, thought-provoking panel discussion featuring leading thinkers and future forecasters from four key topical areas that will explore various dimensions of coastal resilience. The topics are:

- *Making the Most of Ecosystem Services;*
- *A Philanthropic Response to Superstorm Sandy;*
- *The Future of Ports;*
- *and Creating Strong Local Businesses.*



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ESTUARIES

The Coastal Society

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The session will lead off with an overview of the steps that one of our most urban coastal communities, New York City, has taken to improve its resiliency in the face of climate change impacts. Panelists will provide new insights into the goals of coastal resilience, and whether and how it can be attained. They will identify current trends, challenge traditional thinking, describe innovations and new initiatives, and identify strategies to improve coastal community resiliency. Lessons from the past and today's innovations can prepare us for the future. An audience Q & A will round out this session.

Introduction: Captain Peter Clark, President, Tampa Bay Watch
and *Board Chair, Restore America's Estuaries*



Moderator: Daniel Zarrilli, Director,
New York City Mayor's Office
of Recovery and Resiliency
"A Stronger, More Resilient New York City"

Daniel Zarrilli has been appointed by Mayor Bill de Blasio as the Director of the Mayor's Office of Recovery and Resiliency for the City of New York, leading the implementation of A Stronger, More Resilient New York, the City's efforts to improve resiliency by strengthening coastal protections, upgrading buildings, improving infrastructure, and making neighborhoods safer and more vibrant. He is also the Acting Director of the Office of Long-Term Planning and Sustainability. Prior to this, he served on the Mayor's Special Initiative for Rebuilding and Resiliency, leading the City's efforts to develop a comprehensive coastal protection plan for the five boroughs and was named the City's first Director of Resiliency in June 2013. He was the Senior Vice President for Asset Management at the New York City Economic Development Corporation (NYCEDC), responsible for maritime assets and operations, including the City's two cruise terminals and numerous other transportation and waterfront assets. Prior to joining NYCEDC, Daniel spent five years with Bechtel Infrastructure Corporation. He is a Professional Engineer in the State of NY and holds an MS in Civil and Environmental Engineering from MIT and a BS in Civil Engineering from Lehigh University.



Bill Dewey, Manager of Public
Policy and Communications,
Taylor Shellfish Farms
Creating Strong Local Business

Bill Dewey Since receiving his degree in shellfish biology from the University of WA in 1981 Bill Dewey has worked for more than 30 years as a shellfish farmer in WA State. He is Manager of Public Policy and Communications for Taylor Shellfish Farms, the largest producer of farmed shellfish in the U.S., and he owns and operates his own manila clam farm in Samish Bay. He serves on a number of boards and committees locally and nationally including the Board of Directors of the National Aquaculture Association, the Pacific Shellfish Institute, and the National Ocean Council's Ocean Research Advisory Panel. He also served on WA State's Ocean Acidification Blue Ribbon Panel in 2011 and was recently appointed to serve on the WA Marine Resources Advisory Council, a new Council in Governor Inslee's office advising the state on its ocean acidification response.

Summit Details



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The Coastal Society

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Dr. Geraldine Knatz, former Executive Director, Port of Los Angeles
The Future of U.S. Ports

Dr. Geraldine Knatz served as the Executive Director of the Port of Los Angeles for the past eight years, retiring in February, 2014. While she was CEO of North America's largest container port, she focused on setting the port's strategic direction to grow port business while addressing increased competition due to industry consolidation and shifts in world trade patterns. She was instrumental in creating and implementing an aggressive Clean Air Plan that cleared the way for major new developments at the West Coast's largest international trade hub and has been replicated internationally. Prior to this appointment, she was Managing Director of the Port of Long Beach. Dr. Knatz is a former Chairman of the American Association of Port Authorities and Immediate Past-President of the International Association of Port Authorities. In the fall of 2014, she begins an appointment at the University of Southern CA as Professor of The Practice of Policy and Engineering, a joint appointment in the USC's School of Engineering and School of Public Policy. She currently serves on the CA Ocean Protection Council, having been appointed by Governor Schwarzenegger and reappointed by Governor Brown. Dr. Knatz began her career at James J. Howard Marine Sciences Laboratory at Sandy Hook, NJ. She is also a Corporate Director for Bank of the West.



Margaret Waldock, Environment Program Director, Geraldine R. Dodge Foundation
A Philanthropic Focus on Resilience

Margaret Waldock brings extensive environmental and nonprofit experience to her current position as Environment Program Director at the Geraldine R. Dodge Foundation based in Morristown, NJ. In her current role, she manages all of the foundation's grantmaking in the environment, focused on supporting sustainable and healthy communities in NJ through watershed protection and restoration, urban greening, and regional food systems. Previously, she worked for more than 15 years in nonprofit land conservation and stewardship, beginning her career with the American Farmland Trust in Washington, DC, then working for the Trust for Public Land and the NJ Green Acres Program. For eight years, she was the executive director of the Hunterdon Land Trust, a land conservation organization working to preserve the rural landscapes of Hunterdon County. During her time at the land trust, Ms. Waldock built the organization from its early, volunteer origins, to a professionally staffed land trust, facilitating the permanent preservation of more than 5,000 acres of farmland and open space in the county. She is a 1992 graduate of VT Law School with a JD and MS in Environmental Law, as well as a graduate of S.U.N.Y. College at Brockport, with a BS degree in Biology.



Dr. David Yoskowitz, Chief Economist, NOAA, and Harte Research Institute's Endowed Chair of Socio-Economics
Making the Most of Ecosystem Services

Dr. David Yoskowitz is the Chief Economist for NOAA, as well as Endowed Chair for Socio-Economics at the Harte Research Institute and Professor of Economics

in the College of Business and the College of Science and Engineering, both at TX A&M University-Corpus Christi. His work is focused on elucidating the link between environmental well-being and human well-being and moving practice into policy. Currently he is leading efforts to inventory and value ecosystem services for the Gulf of Mexico region and quantifying the impact of sea-level rise on coastal community resiliency. His work has taken him through much of North and Central America including Cuba, Nicaragua, Belize, El Salvador, and Mexico. He led the effort to produce Gulf 360o State of the Gulf of Mexico which was a successful collaboration between governmental, academic, non-governmental organizations, and industry in both the U.S. and Mexico. Dr. Yoskowitz served on the National Research Council Committee on the Effects of the Deepwater Horizon MS Canyon-252 Oil Spill on Ecosystem Services in the Gulf of Mexico and currently sits on the Socio-Economic Scientific and Statistical Committee for the Gulf of Mexico Fishery Management Council.

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	National Harbor 10 (NH-10)	National Harbor 11 (NH-11)	National Harbor 12 (NH-12)	Chesapeake AB (CH-AB)	Chesapeake DE (CH-DE)	Chesapeake GH (CH-GH)
Session	<p>Living Shorelines in the Southeastern U.S.</p> <p>The implementation of softer shoreline stabilization projects, including living shorelines, varies regionally. This session showcases challenges and solutions regarding living shorelines in the Southeastern U.S.</p>	<p>The Wii® and You: Youth Education and Community Engagement With the WeTable</p> <p>This session is hands-on, interactive experience to help attendees become familiar with some great innovations in outreach and education. The weTable is an affordable, interactive, participatory planning and educational tool for decision makers and educators. The technology operates quietly in the background to facilitate a dynamic workspace with meaningful outcomes for participants. Explore uses of Google Earth, the weTable, GeoMapApp and ArcMap-Community Viz!</p>	<p>Approaches for Building Community Resilience to Coastal Hazards Through Green Infrastructure</p> <p>This session will use several local examples to describe how green infrastructure can increase community resilience to coastal flood hazards. Participants will learn how communities are assessing their exposure to coastal flood hazards, identifying areas for green infrastructure to reduce exposure, and evaluating the costs and benefits of implementing green infrastructure.</p>	<p>Marsh Restoration: Challenges, Opportunities, and Lessons Learned</p> <p>Around the U.S., practitioners are finding unique and creative ways to make the most of marsh restoration projects and their planning. This session features four undertakings that are making best use of their resources and finding success.</p>	<p>Bridging Social Sciences and Ecology Using Collaborative Science to Increase Habitat and Community Resilience</p> <p>This interactive session will explore the conceptual, methodological, and practical issues in studying and developing socio-ecological resilience through collaborative science research. It will include three oral presentations covering the topics of "Integrating Socio-Ecological Research and Collaborative Learning to Promote Marsh and Community Resilience" and "Balancing Land Use Decisions in Southern Maine." These presentations will be followed by a facilitated small-group discussion and will end with a report-back and open discussion period.</p>	<p>Protecting Working Waterfronts by Building Partnerships: The National Working Waterfront Network</p> <p>Working waterfronts have been historically underrepresented as an area of public policy development, academic research, and community organizing. This session will update participants on efforts to bring working waterfronts to the fore in these areas as exhibited by the evolution of the National Working Waterfront Network.</p>
Details	<p>MODERATOR:</p> <p>Debbie DeVore, <i>USFWS</i></p> <ul style="list-style-type: none"> Community-Based Living Shoreline Stabilization to Protect Historic Sites in Canaveral National Seashore Melinda Donnelly, <i>University of Central FL</i> Shoreline Erosion Control for a Changing Tide: Living Shorelines – Case Studies and Lessons Learned From Planning, Design, and Construction in VA J.C. Douglass, <i>Clark Nexsen Architecture and Engineering,</i> Jim Cahoon, <i>Bay Environmental, Inc.,</i> and Kevin DuBois, <i>City of Norfolk, VA</i> Alternative Shoreline Management in Coastal MS Melissa Pringle, <i>Allen Engineering and Science,</i> and Willa Brantley, <i>MS Department of Marine Resources</i> Living Shorelines From A to D in the FL Panhandle Melody Ray-Culp, <i>USFWS</i> 	<p>CO-CHAIRS:</p> <p>Vicky Carrasco, <i>University of MD Sea Grant Extension,</i> and Mindy Brooks, <i>LA State University AgCenter's 4-H Youth Wetlands Program</i></p> <p>PANELISTS:</p> <ul style="list-style-type: none"> Mindy Brooks, <i>LA State University AgCenter's 4-H Youth Wetlands Program</i> Vicky Carrasco, <i>University of MD Sea Grant Extension</i> Lauren Land, <i>LA Sea Grant</i> Ed Lewandowski, <i>DE Sea Grant Marine Advisory Service</i> 	<p>CHAIR:</p> <p>Bethney Ward, <i>NOAA</i></p> <ul style="list-style-type: none"> Coastal Flood Hazards and Green Infrastructure Lauren Long, <i>The Baldwin Group at NOAA</i> Assessing Flood Risks and Planning for Resiliency in NJ: Case Studies in the Use of Online Flood Mapping and Planning Tools Lisa Auermuller, <i>Jacques Cousteau NERR (JC NERR)</i> Methods to Identify Priority Areas for Green Infrastructure to Reduce Coastal Hazard Risks Holly Elwell, <i>The Trust for Public Land</i> Identifying the Costs and Benefits of Green Infrastructure for Flood Reduction Patekka Bannister, <i>City of Toledo Division of Environmental Services</i> 	<p>MODERATOR:</p> <p>Lee Weishar, <i>Woods Hole Group</i></p> <ul style="list-style-type: none"> Restoration of the Freshwater Emergent Wetland on the Southeast TX Coastal Plain Marissa Sipocz, <i>TX A&M AgriLife Extension Service</i> Constructing Pilot Studies in a Fringing Marsh Tidal Estuary: Logistical Challenges and Solutions Michael McNally, <i>The ELM Group, Inc.</i> Restoring Resiliency of Tillamook Bay by Incorporating Climate Change into Tidal Wetland Restoration Dick Vander Schaaf, <i>TNC</i> Louisiana's Coastwide Reference Monitoring System-Wetlands (CRMS): Past, Present, and Future Leigh Anne Sharp, <i>CPRA</i> 	<p>CHAIR:</p> <p>Brian Needelman, <i>University of MD</i></p> <p>PANELISTS:</p> <ul style="list-style-type: none"> Michael Paolisso, <i>University of MD Department of Anthropology</i> Sasha Land, <i>Chesapeake Bay NERR</i> Chris Feurt, <i>Wells NERR</i> <p>FACILITATORS AND GROUP DISCUSSION LEADS:</p> <ul style="list-style-type: none"> Katherine Johnson, <i>University of MD Department of Anthropology</i> Andrew Baldwin, Paul Leisnham, and Robert Tjaden, <i>University of MD Department of Environmental Science and Technology</i> Lisa Wainger, <i>University of MD Center for Environmental Science</i> 	<p>CHAIR:</p> <p>Jody Thompson, <i>Auburn University/MS-AL Sea Grant Consortium (MASGC)</i></p> <ul style="list-style-type: none"> The National Working Waterfront Network: The Rise of a National Network Jody Thompson, <i>Auburn University/ MASGC</i> Outreach and Education Efforts of the National Working Waterfront Network Kristen Grant, <i>ME Sea Grant and University of ME Cooperative Extension</i> Maine Working Waterfronts and How National Policy Impacts Them Natalie Springuel, <i>ME Sea Grant</i> 2013 National Working Waterfront Symposium in Tacoma, WA Jamie Doyle, <i>OR Sea Grant</i>

12:00 pm - 1:30 pm

Lunch on your own

Chesapeake JK (CH-JK)	Maryland 1 (MD-1)	Maryland 2 (MD-2)	Maryland 3 (MD-3)	Maryland 4 (MD-4)	Maryland 5 (MD-5)
A Regional Framework for Estuarine Habitat Restoration: Northeast FL as a Testing Ground for Success Habitat restoration in Northeast FL has been minimal and sporadic. In 2010 the Northeast Restoration Team (NERT) was created to systematically approach restoration activities in Northeast FL. This session focuses various initiatives the NERT has undertaken to build a regional framework for estuarine habitat restoration in Northeast FL.	Salt Marsh Adaptive Management and Assessment Techniques: Strategies for Salt Marshes to Adapt to SLR This session will explore new methods of salt marsh assessment, focused on SLR, as well as techniques being implemented from MD to ME to help marshes maintain and regain resiliency.	Eelgrass Restoration, Management, and Science Eelgrass beds provide a myriad of habitat and ecosystem services, yet are often at the forefront of anthropogenic impacts. This session examines how these effects are being lessened, how the resource is being tracked, and the potential for valuation of services.	Advancing Estuary Restoration, Awareness, and Science Through the Coastal Fish Habitat Partnerships This session will include presentations highlighting the work of the coastal fish habitat partnerships in three thematic areas: estuary protection and restoration; education and outreach; and science and data. This will be followed by a panel discussion addressing key challenges and issues associated with the three previously presented thematic areas.	Managing Coasts in the Face of Climate Change and SLR Communities are struggling to determine how they will manage their resources as climate change and SLR exert increasing pressure. This session examines a variety of responses and management options available and what their costs may be.	Advances in Technology and Tools in Coastal and Estuarine Management and Restoration So many data, so little time. What's the best way to harness information, technology, and tools to maximize their effectiveness? This session highlights advancements in technology and tools that help managers do just that.

Session

CHAIR:	CHAIR:	MODERATOR:	CHAIR:	MODERATOR:	MODERATOR:
Nicole Adimey, <i>USFWS</i> <ul style="list-style-type: none"> The Northeast FL Restoration Team: A Partnership Approach to Regional Restoration Nicole Adimey, <i>USFWS</i> Estuarine Habitat Restoration: A Planning Guide for FL and a Test Estuarine Restoration Plan for Northeast FL Denis W. Frazel, <i>Frazel, Inc.</i> Restoration of Coastal and Estuarine Habitats in Northeast FL Through NOAA's Coastal and Marine Habitat Restoration Grant Program Jeffrey L. Beal, <i>FL Fish and Wildlife Conservation Commission</i> Strengthening a Community of Citizen Scientists Through Northeast FL Living Shoreline Initiatives Jody Palmer, <i>Brevard Zoo</i> 	Susan Adamowicz, <i>USFWS</i> <ul style="list-style-type: none"> Results of a Two-Year Salt Marsh Assessment Focused on the Impacts of Rapid SLR in Southern New England Marci Cole Ekberg, <i>Save The Bay</i> Salt Marsh Adaptation Strategies in a Southern New England Estuary: Restoring Salt Marsh Hydrology With Runnels and Other Techniques Wenley Ferguson, <i>Save The Bay</i> The Blackwater Climate Adaptation Project David Curson, <i>Audubon MD-DC</i> Coupling the Goldilocks Elevations of <i>Spartina alterniflora</i> Growth to Alternative Means of Beneficial Reuse of Dredge Material in DE Wetlands Bart Wilson, <i>DE Center for the Inland Bays</i> 	Pamela Neubert, <i>Stantec</i> <ul style="list-style-type: none"> Conservation Moorings as a Tool for Eelgrass Restoration in MA Lisa Engler, <i>MA Bays National Estuary Program</i> Conservation Moorings: What Are They and How Do They Help Protect Eelgrass Beds? Kristin Uiterwyk, <i>Urban Harbors Institute, University of MA Boston</i> Mapping and Monitoring Eelgrass Beds in RI Robbie Hudson, <i>Save The Bay</i> Modeling and Measuring Carbon Dioxide Sequestration Due to Eelgrass (<i>Zostera marina</i>) Within an Estuary Royann Jean Petrell, <i>University of British Columbia</i> 	Lisa DeBruyckere, <i>Pacific Marine and Estuarine Fish Habitat Partnership, CA Fish Passage Forum</i> PANELISTS: <ul style="list-style-type: none"> David Wigglesworth, <i>USFWS</i> Kelly Hepler, <i>National Fish Habitat Partnership Board CHAIR</i> Buck Sutter, <i>NOAA</i> Rua Mordecai, <i>South Atlantic Landscape Conservation Cooperative</i> George Schuler, <i>TNC</i> 	Mark Jaworksi <i>CH2M HILL</i> <ul style="list-style-type: none"> Retreat or Stabilization: What is the Dominant Approach Going Forward? Jim London, <i>Clemson University and London & Associates</i> Incorporating the Concept of Geologic Resilience as a Core Stratagem for Managing Fire Island National Seashore Over the Long Term Paul Pinet, <i>Colgate University</i> Implementing a Community Coastal Resilience Plan in Guilford, CT David Murphy, <i>Milone & MacBroom, Inc.</i> Forecasting Bay State Vulnerabilities: Case Studies of Climate Change Adaptation and Planning in Boston, New Bedford, Acushnet, and Fairhaven Andy Lipsky, <i>SeaPlan</i> 	Angelina Freeman, <i>CPRA</i> <ul style="list-style-type: none"> Creating Resilience Together: Great Lakes Coastal Communities Inspire Action by Sharing Stories, Tools, and Lessons Learned in an Online Planning Guide Jeff Stone, <i>Association of State Floodplain Managers</i> Flood Control 2.0: Rebuilding Habitat and Shoreline Resilience Through a New Generation of Flood Control Design and Management Caitlin Sweeney, <i>San Francisco Estuary Partnership</i> Expanding Our Ability to Forecast Coastal Habitat Response to Sea Level: Can Remote Sensing Be Used to Populate or Validate Marsh Accretion Models? Lisamarie Windham-Myers, <i>USGS</i> A Geospatial Approach to Analyzing, Visualizing, and Communicating Shoreline Vulnerabilities to SLR and Storm Surge Christine May, <i>AECOM</i>

Details

12:00 pm - 1:30 pm

Lunch on your own

	National Harbor 10 (NH-10)	National Harbor 11 (NH-11)	National Harbor 12 (NH-12)	Chesapeake AB (CH-AB)	Chesapeake DE (CH-DE)	Chesapeake GH (CH-GH)
Session	<p>Exploring Regional Variations in the Use of Living Shorelines</p> <p>Recognizing there are a wide range of regional differences when looking at alternatives to hardened shoreline for erosion control, this session will highlight regional differences between four coastal areas. Looking at regional variations, practitioners will improve collaboration across geographies and help improve habitat and build resiliency to climate change within coastal communities. Interactive discussions and attendee engagement will occur following the presentations.</p>	<p>A Panel-Based Discussion About Re-Envisioning Restoration and Resilience in a Post-Sandy World</p> <p>This panel-based discussion session will look at how Superstorm Sandy highlighted the importance of natural infrastructure, such as salt marshes and barrier islands, and changed the conversation about restoration and resilience and how we view our coastal communities now and in the future.</p>	<p>Derelict Fishing Gear: Impacts and Solutions</p> <p>Derelict fishing gear can continue to capture and kill target and non-target species, causing pervasive ecological and economic impacts. This session will focus on the impacts of and solutions to a variety of types of derelict fishing gear in different regions of the U.S. and Canada.</p>	<p>Developing Municipal Resiliency Through a Regional Marsh Migration Project in ME</p> <p>This panel will provide highlights from Maine's NOAA POSM project Integrating Science into Policy: Adaptation Strategies for Marsh Migration, including: data development, education and outreach with six partner communities, successes, obstacles overcome, and lessons learned. This is highly transferable to other local and regional efforts on resiliency and marsh migration.</p>	<p>Finding Solutions in the Gulf of Mexico: Projects, Planning, and Partnerships</p> <p>The Gulf of Mexico is under a myriad of threats, which also provide an opportunity for creative and meaningful solutions. This session highlights the unique ways that project implementers are using sediments, planning for upcoming impacts, and relying on effective partnerships in this region.</p>	<p>What's It Worth? Economic Value of Habitats, Restoration, and Management</p> <p>Economics play a huge role in making decisions, but often key data are missing when it comes to coastal and estuarine restoration and management. This session showcases four efforts to determine the economic value of programs, projects, and habitats.</p>
Details	<p>CHAIR:</p> <p>Matt Chasse, <i>NOAA</i></p> <ul style="list-style-type: none"> A Continuum of Soft Shoreline Solutions on the Salish Sea Jim Johannssen, <i>Coastal Geologic Services</i> Living Shorelines in AL and MS Bill Sapp, <i>Southern Environmental Law Center</i> Chesapeake Bay Living Shorelines Rob Schnabel, <i>Chesapeake Bay Foundation</i> Hudson River Sustainable Shorelines Jon Miller, <i>Stevens Institute of Technology</i> 	<p>CHAIR:</p> <p>Christopher Clapp, <i>TNC</i></p> <ul style="list-style-type: none"> Restoring Coastal Marshes in a Eutrophic World Linda Deegan, <i>Marine Biological Laboratory Ecosystems Center</i> Scientists, Communities, and Regulatory Authorities Coming Together to Re-Envision What a Resilient Coastal Community Is Carl LoBue, <i>TNC</i> Resilient Coastal Communities and Valuing Our Natural Assets: Past, Present, and Future Elizabeth Smith, <i>TNC</i> Reclaiming Our Water: Nitrogen and Resiliency Sarah Lansdale, <i>Suffolk County</i> 	<p>CHAIR:</p> <p>Joan Drinkwin, <i>Northwest Straits Foundation</i></p> <ul style="list-style-type: none"> Derelict Fishing Gear in Chesapeake Bay, VA: Spatial Patterns and Implications for Marine Fauna Donna Bilkovic, <i>VA Institute of Marine Science</i> NOAA Marine Debris Program Efforts to Address Derelict Fishing Gear Along the West Coast Nir Barnea, <i>NOAA</i> Derelict Gillnets in the Salish Sea: Causes of Loss, Extent of Accumulation, and Development of a Predictive Transboundary Model Kyle Antonelis, <i>Natural Resources Consultants</i> Fishermen-Led Derelict Crab Gear Recovery on the Northern CA Coast Jennifer Rezullo, <i>UC Davis</i> Reporting, Response, and Retrieval of Newly Lost Fishing Nets in Puget Sound Joan Drinkwin, <i>Northwest Straits Foundation</i> 	<p>CHAIR:</p> <p>Peter Slovinsky, <i>ME Geological Survey</i></p> <p>PANELISTS:</p> <ul style="list-style-type: none"> Peter Slovinsky, <i>ME Geological Survey</i> Elizabeth Hertz, <i>ME Department of Agriculture, Conservation, and Forestry</i> Steve Walker, <i>ME Coast Heritage Trust</i> Judy Gates, <i>ME Department of Transportation</i> 	<p>MODERATOR:</p> <p>Bill Hanson, <i>Great Lakes Dredge and Dock</i></p> <ul style="list-style-type: none"> Flexibility in Design and Payment: The Keys to Success for the West Belle Pass Barrier Headland Project Gordon Thomson, <i>CB&I</i> So Close Yet So Different: Construction and Design Lessons From Adjacent Barrier Islands Cecelia Linder, <i>NOAA</i> Plaquemines Parish Programmatic Ridge Restoration Design and Management Brent Duet, <i>ARCADIS US</i> Community-Based Hydrological Restoration Program: Accomplishments and Lessons Learned From a NOAA Restoration Center and Sea Grant Partnership Jessica Berrio, <i>NOAA</i> 	<p>CHAIR:</p> <p>Chris Darnell, <i>USFWS</i></p> <ul style="list-style-type: none"> The Economic Case for Coastal Ecosystem Restoration: Three Case Studies From the American Recovery and Reinvestment Act of 2009 Shiva Polefka, <i>Center for American Progress</i> The Economic Value of Coastal Erosion Protection in Korea Jeong-In Chang, <i>Korea Maritime Institute</i> California's Disappearing Beaches: Mitigating for Ecosystem Services Lost From Shoreline Armoring Chad Nelsen, <i>Surfrider Foundation</i> Estimating Critical Energy Infrastructure Value at Risk From Coastal Erosion Siddhartha Narra, <i>LA State University</i>

3:00 pm – 3:30 pm

Afternoon Coffee Break

Chesapeake Foyer

Chesapeake JK (CH-JK)	Maryland 1 (MD-1)	Maryland 2 (MD-2)	Maryland 3 (MD-3)	Maryland 4 (MD-4)	Maryland 5 (MD-5)	Session
<p>Coastal Planning and Management in a Changing Climate</p> <p>Planning for and facing climate change inherently includes uncertainty, yet communities and their inhabitants strive for stability and predictability. How can these processes be addressed to create effective solutions that include habitats and humans? This session examines how communities are tackling climate change effects through planning and engagement.</p>	<p>Reclaiming a River, Conservation, and Community</p> <p>An overview of the impact, successes, and lessons learned for the community-led restoration of the Lower Bronx River Project. Ten years of community collaboration and habitat restoration has led to enhanced community engagement, an array of completed restoration projects, and a healthier ecosystem.</p>	<p>A Coastal Systems Approach to the USACE Resource Planning and Alternative Funding Mechanisms for Resilient Coastal Infrastructure</p> <p>The session will address coastal infrastructure policy, planning, and funding through a resilience perspective. Speakers will address potential opportunities for creative interstate and regional financing mechanisms aimed at leveraging funding sources for coastal projects. The session will also emphasize the need for collective visions for coastal systems infrastructure planning.</p>	<p>Ecosystem Services: Legal Context and Determination of Value</p> <p>Ecosystem services are increasingly becoming a key determinant in decision making, planning, and related efforts. The challenge is putting these services into a context that satisfies policy and legal needs while addressing societal and natural resource demands. This session highlights some of the latest thinking and methods for determining the value of ecosystem services.</p>	<p>Improving Data and Tools to Evaluate the Connections Between Coastal and Offshore Ecosystems to Support Coastal Resource Management</p> <p>A scientific basis is essential for managing, conserving, and restoring coastal habitats and the living resources and ecosystem services they provide. Understanding impacts to estuarine and coastal habitats to offshore fisheries is essential to improve the effectiveness of habitat conservation and protection.</p>	<p>Shoreline Management and Planning: Tools, Trends, and Techniques</p> <p>Around the world, leaders and communities are working to manage their shorelines as effectively as possible. This session explores approaches, techniques, and tools available to make management and planning strategic and meaningful for coastal communities and the habitats upon which they rely.</p>	
<p>MODERATOR:</p> <p>Matt Nixon, <i>ME Coastal Program</i></p> <ul style="list-style-type: none">10 Million by the Sea: Regional SLR Planning in Los Angeles, CA Alyssa Newton Mann, <i>USC Sea Grant</i>Estuarine Transition Zones of San Francisco Bay: Types and Conservation Strategies Donna Ball, <i>Save The Bay, San Francisco</i>Resilience Through a Research-Community Partnership: Stakeholder Engagement in the Mitigation and Adaptation Research Institute (MARI) at Old Dominion University Michelle Covi, <i>Old Dominion University</i>Engaging Recreational Users in Ocean Planning Pete Stauffer, <i>Surfrider Foundation</i>	<p>CHAIR:</p> <p>Linda Cox, <i>Bronx River Alliance</i></p> <ul style="list-style-type: none">Community-Based Conservation in an Urban Setting Kellie Terry, <i>The Point</i>Restoring the Bronx River for an Urban Estuary and Community: Achievements, Challenges, and Next Steps Marit Larson, <i>Natural Resources Group, New York City Parks Department</i>Bronx River Education Through Restoration Adam Green, <i>Rocking the Boat</i>Supporting Regional Partnerships for River Restoration James Turek, <i>NOAA</i>	<p>CHAIR:</p> <p>Bradley Watson, <i>Coastal States Organization</i></p> <ul style="list-style-type: none">Addressing the Need for Coastal Systems Planning Charles Chesnutt, <i>USACE</i>Regional Approaches to Implementing and Funding Coastal Water Resource Projects Howard Marlowe, <i>Marlowe and Company</i>A State Perspective on Coastal Systems Planning and Implementation Anthony Pratt, <i>DE DNR and Environmental Control</i>Creative Financing Mechanisms for a Coastal Systems Approach to Resilient Infrastructure Michael Curley, <i>Environmental Law Institute</i>	<p>MODERATOR:</p> <p>Tim Feather, <i>CDM Smith</i></p> <ul style="list-style-type: none">U.S. Coastal Restoration Law and Ecosystem Services Anastasia Telesetsky, <i>University of ID</i>Reviving Ecosystem Services While Supporting Communities: What the Social Sciences Can Teach Us About Habitat Restoration Susan Lovelace, <i>SC Sea Grant Consortium</i>Using Q-Sort to Enhance Understanding of How Stakeholders Value Marsh Ecosystems and the Socio-Ecological Services They Provide in Deal Island, MD Anna McMurray, <i>University of MD Center for Environmental Science</i>	<p>CHAIR:</p> <p>Kirsten Larsen, <i>NOAA</i></p> <ul style="list-style-type: none">New Tools Needed by Managers to Link Nearshore Habitat Reduction to Offshore Fisheries Production Korie Schaeffer, <i>NOAA</i>Estimating Fisheries Production of the Chesapeake Bay in the Ecosystem Context of a Variable Estuarine Habitat Thomas Ihde, <i>NOAA through Versar, Inc.</i>Estimating Biomass and Ecosystem Modelling in Relation to Habitat Availability for North Atlantic Diadromous Forage Fish Species Jillian Hager Osborne, <i>East Carolina University</i>	<p>MODERATOR:</p> <p>Bhaskaran Subramanian, <i>MD DNR</i></p> <ul style="list-style-type: none">Spatial Integration for Coastal Erosion Management in Korea: Words Into Action Jungho Nam, <i>Korea Maritime Institute</i>Non-Rock Alternative to Shoreline Protection Demonstration Project Jamie Bartel, <i>CDM Smith</i>The Coasts Ports Rivers Institute (COPRI) Living Shoreline Case Study Database Robert Walker, <i>Anchor QEA</i>An Inventory Map and Valuation of Social Uses of RI Estuaries: A Mixed Methods Approach Robert Thompson, <i>University of RI</i>	Details
<p>3:00 pm – 3:30 pm Afternoon Coffee Break Chesapeake Foyer</p>						

	National Harbor 10 (NH-10)	National Harbor 11 (NH-11)	National Harbor 12 (NH-12)	Chesapeake AB (CH-AB)	Chesapeake DE (CH-DE)	Chesapeake GH (CH-GH)
Session	<p>An Update on Recent Living Shorelines Projects and Activities in Coastal AL</p> <p>Alabama has been actively promoting living shorelines for at least the last 10 years. During recent years, the pace of these efforts has accelerated and this session will highlight these recent efforts, with an emphasis on partnerships and project implementation.</p>	<p>Pilot Model for Brook Trout Habitat Prioritization in the Chesapeake Bay Watershed</p> <p>North Atlantic Landscape Conservation Cooperative (LCC) partners are piloting a model for brook trout habitat prioritization in the Chesapeake watershed. It will assess habitat for biological endpoints in a framework that can be applied at various scales to decisions on restoration/protection of stream habitat for this and other species in five states.</p>	<p>Examining Resilience in the Shallow Coastal Zone: Effects of Multiple Stressors at the Land-Water Interface on Water Quality, SAV, Wetlands, and Fauna</p> <p>We examined effects of shoreline hardening, watershed land use, water clarity, hypoxia, and Phragmites invasion on habitat quality for SAV and estuarine fish, shellfish, and waterbirds. Four years of research on stressors in Chesapeake Bay, Delaware Bay, and Coastal Bays includes collaborations from 17 primary investigators comparing resilience among 40-plus systems.</p>	<p>Citizen-Powered Change: Engaging Communities, Making a Difference</p> <p>Citizens are an enormous, and often untapped, resource for making a difference in coastal communities. This session highlights four efforts from around the country that have successfully engaged citizens for long-term, meaningful change.</p>	<p>Ocean Acidification: The Response of State and Federal Governments</p> <p>Ocean acidification is a growing concern across the U.S. This panel will examine the impacts of this issue on coastal communities, ecosystems, and economies through federal and state perspectives with a focus on WA as a model for other states, such as ME, looking to address ocean acidification.</p>	<p>Oyster Restoration: Techniques, Costs, and Lessons Learned</p> <p>Practitioners are making strides in reestablishing populations of native oysters. This session highlights the results of different techniques, lessons learned, and provides cost comparisons between projects and sites.</p>
Details	<p>CHAIR:</p> <p>Carl Ferraro, <i>AL Department of Conservation and Natural Resources</i></p> <ul style="list-style-type: none"> Living Shorelines Training, Coordination, and Education and Outreach Activities in AL Carl Ferraro, <i>AL Department of Conservation and Natural Resources</i> Little Bay Versus Northeast Pointe Aux Pins: Three-Year Post-Construction Updates Just Cebrian, <i>Dauphin Island Sea Lab</i> Community-Based Restoration: A Living Shoreline for Mon Louis Island, AL Bret M. Webb, <i>University of South AL</i> Restoration of the Northern Tip of Mon Louis Island at the Mouth of Fowl River Tom Herder, <i>Mobile Bay National Estuary Program</i> 	<p>CHAIR:</p> <p>Jennifer Greiner, <i>USFWS</i></p> <ul style="list-style-type: none"> Decision Support Tools for Conservation Design in the North Atlantic Scott Schwenk, <i>North Atlantic LCC</i> Science Needs of the Eastern Brook Trout Joint Venture (EBTJV) and Application to State Resource Management Decisions Alan Heft, <i>MD DNR</i> Downstream Strategies Methodology and Modeling Process: Brook Trout Case Study Todd Petty, <i>WV University - Forestry and Natural Resources</i> Applying Science to Local Decisions: Where to Focus Stream Habitat Restoration and Protection in MD Sandra Davis, <i>USFWS</i> 	<p>CHAIR:</p> <p>Rochelle Seitz, <i>VA Institute of Marine Science</i></p> <ul style="list-style-type: none"> Effects of Watershed Land Cover and Proximity to Shore on Nutrients and Contaminants in Chesapeake Bay Subestuaries Thomas Jordan, <i>Smithsonian Environmental Research Center</i> Interacting Effects of Land-Use and Shoreline Hardening on Submerged Aquatic Vegetation Lee Karrh, <i>MD DNR</i> A Landscape-Scale Approach to Management of a Major Invasive Species, <i>Phragmites australis</i>, in Chesapeake Bay Tidal Wetlands Dennis Whigham, <i>Smithsonian Environmental Research Center</i> Ecological Impacts of Upland Use and Shoreline Hardening on Estuarine Benthos, Fish, and Waterbirds Rochelle Seitz, <i>VA Institute of Marine Science</i> 	<p>MODERATOR:</p> <p>Chris Ellis, <i>NOAA</i></p> <ul style="list-style-type: none"> Wading Deeper into Citizen Engagement With Local Residents: Three Projects With a Big Wow Factor Ginny Broadhurst, <i>Northwest Straits Commission</i> The Surfrider Foundation's Blue Water Task Force in Bellingham, WA: A Citizen Science Program Inspiring Action and Engaging Communities Eleanor Hines, <i>Northwest Straits Chapter of the Surfrider Foundation</i> Integrating Community Involvement With Sarasota Bay, FL Habitat Restoration Jay Leverone, <i>Sarasota Bay Estuary Program</i> Advancing Advocacy and Policy Goals Through Community-Based Restoration Hayley Zemel, <i>Save The Bay, San Francisco</i> 	<p>CHAIR:</p> <p>Julia Roberson, <i>Ocean Conservancy</i></p> <p>PANELISTS:</p> <ul style="list-style-type: none"> Jay Manning, <i>Co-CHAIR of the WA State Blue Ribbon Panel on Ocean Acidification</i> Bill Dewey, <i>Taylor Shellfish Farms</i> Rep. Mick Devin, <i>ME State House of Representatives</i> Libby Jewett, <i>NOAA</i> 	<p>MODERATOR:</p> <p>Teresa Doss, <i>Biohabitats</i></p> <ul style="list-style-type: none"> Large-Scale Native Oyster Restoration in the Chesapeake Bay Andy Lacatell, <i>TNC</i> Reef Balls as Effective Tools for Recreating Live Oyster Reef Structure Through Community-Based Restoration in Chesapeake Bay William Goldsborough, <i>Chesapeake Bay Foundation</i> Georgia DNR (GADNR) Lessons Learned and Cost Analyses From Multiple Oyster Reef Restoration Projects (2012-2014 Seasons) January Murray, <i>GA DNR</i> Utilizing Oyster Castles to Achieve Multiple Oyster Restoration Goals Bowdoin Lusk, <i>TNC</i>

Chesapeake JK (CH-JK)	Maryland 1 (MD-1)	Maryland 2 (MD-2)	Maryland 3 (MD-3)	Maryland 4 (MD-4)	Maryland 5 (MD-5)
Benefits and Challenges of Large-Scale Tidal Wetland Restoration in CA's Sacramento-San Joaquin Delta This session will explore the expected benefits and challenges of implementing what would be the largest wetland restoration program in the western U.S., the Bay Delta Conservation Plan in central CA. The program would restore and enhance habitat for more than 50 endangered species.	Social Resilience to Influence the Restoration, Conservation, and Protection of the Guayanilla Bay Estuary This session chronologically presents the resilience social work that the members of Madre Tierra Atabey have implemented in the coastal communities of Guayanilla, PR, which is home to the third-largest estuary on the island. These efforts demonstrate the importance and viability of the social vector in creating effective and long lasting environmental resilience in areas adversely affected by human action.	Driving Policy and Actions With Science Data, predictive models, and similar instruments can be powerful tools in creating and establishing policy, plans, and programs. This session focuses on how the use of data and related tools can help make better restoration and management decisions.	Living Shore: Building Communities in Greenbackville, VA Through Restoration Multiple methods used in development of living shoreline and marsh restoration projects in Greenbackville, VA will be shared. Presenters will discuss objectives, history, and approaches for invasive species control, water quality, thermal pollution, and sedimentation monitoring in a salt marsh adjacent to an oyster restoration site in Chincoteague Bay.	Creating Stewards: Programs and Lessons Learned in Outreach and Engagement Connecting people to habitats is an essential step in creating stewards and getting them excited about conservation, restoration, and management of coastal and estuarine systems. This session shines the spotlight on four exciting programs that do just that!	The Power of Partnerships Partnerships are a critical part of making long-term, lasting differences in coastal communities and ecosystems. This session showcases four efforts that have resulted in meaningful, on-the-ground changes as a result of their strong, dedicated partnerships.
CHAIR: David Zippin, <i>ICF International</i> <ul style="list-style-type: none"> The Bay Delta Conservation Plan: An Overview of a Large-Scale Wetland Restoration Program David Zippin, <i>ICF International</i> Ecosystem Benefits of Inter-tidal and Sub-tidal Restoration as Part of the Bay Delta Conservation Plan Carl Wilcox, <i>CA Department of Fish and Wildlife</i> Physical and Biological Challenges of Regional-Scale Restoration in the San Francisco Bay-Delta Michelle Orr, <i>ESA</i> Implementing Large-Scale Tidal Marsh Restoration in a Stressed Ecosystem: How to Overcome the Challenges Lenny Grimaldo, <i>ICF International</i> 	CHAIR: Emmanuel Vázquez <i>Madre Tierra Atabey</i> <ul style="list-style-type: none"> A Social Action Plan for Restoration, Protection, and Conservation of the Guayanilla Bay Estuary Héctor Nieves, <i>Madre Tierra Atabey</i> Profitability of Social Resilience Versus Ecological Resilience in Times of Crisis Luis Gonzalez, <i>Madre Tierra Atabey</i> Social Resilience Work in the Guayanilla Bay Estuary Alexandra Rodriguez, <i>Madre Tierra Atabey</i> The Guayanilla Bay Estuary Resilience as a New Model and Protocol Emmanuel Vázquez, <i>Madre Tierra Atabey</i> 	MODERATOR: Mo Lynch, <i>VA Institute of Marine Science</i> <ul style="list-style-type: none"> Application of Estuarine Evaluation Tools for Everglades Restoration Planning Patrick Pitts, <i>USFWS</i> Creating a Benchmark for Hypoxia Restoration Using a Neural Network Model for Chesapeake Bay Andrew Muller, <i>U.S. Naval Academy</i> Maryland's Phosphorus Management Tool as a Case Study of Science Trying to Become Policy Doug Myers, <i>Chesapeake Bay Foundation</i> From Headwaters to Coast: Influence of Human Activities on Water Quality of the Potomac River Estuary Suzanne Bricker, <i>NOAA</i> 	CHAIR: Anne Armstrong, <i>Chincoteague Bay Field Station</i> <ul style="list-style-type: none"> The Ghosts of Franklin City and Greenbackville, VA: The Legacy of Overharvesting and Mismanagement of Coastal Resources on the Chincoteague Bay Sean R. Cornell, <i>Shippensburg University</i> Chincoteague Bay Ecosystem Ecology: Establishing Baseline Diversity Surveys in Franklin City Salt Marsh and Monitoring Oyster Recruitment and Recovery James Hunt, <i>East Stroudsburg University</i> Stratigraphic Record From Mainland Side of Chincoteague Bay: Understanding Sedimentation and Patterns of Environmental Change in Franklin City Marsh Adrienne Oakley, <i>Kutztown University</i> Understanding Human Impacts in the Franklin City Marsh: Thermal Pollution, Biological Invasions, and Changes in Groundwater Systems Megan Kelsall, <i>Shippensburg University</i> 	MODERATOR: Michael Flynn, <i>East Carolina University</i> <ul style="list-style-type: none"> Rooting Environmental Resiliency: Connecting Local Youth to Conservation to Create the Next Generation of Environmental Stewards Laura Herrin, <i>Student Conservation Association</i> Making Room for Wildlife in Baltimore City Stephanie Pully, <i>National Aquarium</i> Connecting Educators for Hands-on, Place-Based Environmental Education to Inspire Life-Long Learning and Stewardship Shannon Sprague, <i>NOAA</i> Estuary EDventures Initiative – “Education Through Restoration” Megan Burford, <i>Tampa Bay Watch</i> 	MODERATOR: Keeley O'Connell, <i>EarthCorps</i> <ul style="list-style-type: none"> Narragansett Bay From the Air: Save The Bay's Flights with LightHawk Jonathan Stone, <i>Save The Bay,</i> and Jonathan Milne, <i>Lighthawk.org</i> Restoring Barrier Island Sand Dunes, Coastal Prairie, and Tidally-Influenced Wetlands Along the TX Coast Through Educational Outreach Programs Karla Klay, <i>Artist Boat</i> Restoration Alone Isn't the Answer: Protecting and Maintaining Healthy Watersheds Through Local Engagement Tuana Phillips, <i>Chesapeake Research Consortium</i> Smith Creek Watershed Partnership - A National Showcase Libby Norris, <i>Chesapeake Bay Foundation</i>

Summit Details

Thursday Workshops & Trainings



*From Discovery to Data Vis:
How to Communicate Science on the Web*

National Harbor 11

9:00 am – 12:30 pm

Pre-registration is required

Do you have science that you want to share? This interactive half-day workshop offers science, restoration, and conservation professionals the knowledge and skills needed to communicate scientific information on the web. Participants will gain insight into the world of online communications, where knowing your audience is key, and where the right combination of words and images will help you beat the limits of a short attention span.

Following this course, you will: Know how to use the common techniques of “discovery research” to learn about your audience and identify their needs; Recognize the importance of conducting discovery research before a digital product is built and know how to sell the case for this process to a management team; Understand how the tone, audience, and content of blog posts, Tweets, and other forms of web writing differ from traditional print communication; Be able to use your understanding of web writing to transform scientific information into content that is appropriate for the online audience; Recognize the elements of effective data visualization; and Understand how data visualization can allow you to impact and engage more people in your work.

Presenters:

- **Guy Stephens**, *Chesapeake Bay Program and University of MD Center for Environmental Science*
- **Catherine Krikstan**, *Chesapeake Bay Program and Alliance for the Chesapeake Bay*
- **Mike Land**, *NPS, Chesapeake Bay Office*



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*Restoring the Natural Functions of Wetlands:
Identifying Common Goals for Advancing
Wetland Restoration Success*

National Harbor 9

9:30 am – 5:00 pm

Pre-registration is strongly advised, walk-ins allowed if space is available

EPA would like to encourage a national discussion on ways to advance wetland restoration and is interested in hearing about your wetland restoration stories and challenges. Where do we, as a community want to be in 5 years? 10 years? What types of collaborations, technical information, and training would be helpful?

Objectives: 1) Identify how can we work together to accomplish better wetland restoration projects; 2) Share and invite feedback on the usefulness of the National Wetlands Condition Assessment (a national report on the health of the nation's wetlands) and associated wetland monitoring tools in voluntary restoration efforts 3) Promote new collaborations among volunteer wetlands restoration efforts; 4) Develop a common strategy of specific actions; and 5) Identify ways that EPA can assist.

Morning Session: 9:30 am – Noon

Hands-on Training: EPA Office of Wetlands Oceans and Watersheds' Tools for Restoration

Afternoon Listening Session: 1:00 pm – 5:00 pm

1. Welcome and Introductions
2. Raising the Bar on Wetlands Restoration: Specific Goals of this Listening Session
3. Summary of Feedback Data on the Role of EPA in Supporting Restoration Success
4. Facilitated Discussion
5. Agreement on Future Collaborations and Actions

Summit Details

Thursday Workshops & Trainings (continued)



Coastal Community Resilience Training Course

National Harbor 12

8:00 am – Noon (Also offered on Sunday)

Pre-registration is required

This 4-hour Coastal Community Resilience course will assist to raise awareness of the hazards faced by coastal communities, the potential social, economic, and environmental impacts of these hazards, approaches to prevent or mitigate hazard impacts, and tools to increase resilience. The course will emphasize target capabilities to enhance preparedness for and response to natural disasters, demonstrate how to integrate risk and community-based collaborative strategies into plans and programs, and introduce tools that help communities assess individual risks and vulnerabilities.

This is a FEMA Certified course. This course is listed in the FEMA National Training and Education Division Catalog. It is taught by the National Disaster Preparedness Training Center at the University of HI.



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Improving Restoration Monitoring Design

National Harbor 10

8:30 am – 5:00 pm

Pre-registration is required

Have you ever questioned the effectiveness of your monitoring or been frustrated with its limitations? (Be honest!) This interactive, full-day workshop will offer restoration practitioners valuable knowledge, skills, and tools to enhance their ability to design and implement restoration projects that account for ecosystem services, quality of non-quantitative data, and ecological and non-ecological constraints on monitoring implementation. Participants will gain insight into developing monitoring approaches for adaptive management using a logic model-based framework. Applying this thoughtful planning method will avoid some of the pitfalls that restoration practitioners often encounter in monitoring efforts. Geared toward experienced practitioners, this training does not focus on a specific monitoring protocol, but rather improving planning of monitoring strategies.

This workshop will be led by experienced NOAA staff. Veteran coastal restoration professionals will assist with the development and presentation of the training to make it “field tested,” relevant, and meaningful for attendees.



Poster Presentations



RESTORE
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The Poster Hall features posters grouped into the following categories: Community Engagement and Education (CE); Policy and Planning (PP); and Science, Technology, and Practice (STP).

For the most up-to-date information and for poster abstracts and coauthors, please visit:
www.RAETCS14.sched.org or scan:



Community Engagement and Education (CE) Posters

- CE1.** *Reaching New Audiences and Fostering Stewardship for the Morro Bay Estuary*
Lexie Bell, Morro Bay National Estuary Program (MBNEP)
- CE2.** *Learning Through Research and Restoration: New York City Working in Hudson and Bronx River Habitats (While Building Boats, Careers, and Life Skills)*
Peter Malinowski, New York Harbor School
- CE3.** *Green Harbors Project: Biomimicry LivingLabs for Teaching and Learning by Doing Restoration in Urban Estuaries*
Anamarija Frankic, Green Harbors Project, UMass Boston
- CE4.** *Facilitating and Measuring Social Learning During a Workshop Designed to Develop Adaptive Collaborative Management*
Althea Hotaling, University of FL
- CE5.** *Stewardship Training in the Coastal Zone for Petrochemical Industrial Workers*
Karla Klay, Artist Boat
- CE6.** *Development of a Systematic Stakeholder Identification System for 3VS Modeling in the Snohomish Basin, WA*
Kate Mulvaney, EPA
- CE7.** *Citizen Science and the National Sea Grant Network*
Tamara Newcomer Johnson, MD Environmental Service
- CE8.** *Reconnecting Urban Communities to the Environment*
Stephanie Peters, MD Environmental Service
- CE9.** *Incorporating Outreach into a State Wetland Assessment Program*
Margaret Pletta, DNREC Wetland Monitoring and Assessment Program
- CE10.** *Water Quality, Master Gardeners, and the Coastal Certificate Program*
Judy Preston, Long Island Sound Study
- CE11.** *The Sound Behavior Index: A Management Tool for the Social Side of Ecosystem Restoration*
Emily Sanford, Puget Sound Partnership
- CE12.** *Leveraging the Geek in All of Us – New Tools for Coastal Engagement*
Wesley Shaw, Blue Urchin Digital
- CE13.** *Point Molate Beach Park's Coastal Education Program*
Pam Stellp, Citizens for a Sustainable Point Molate
- CE14.** *The Terrapin Tally: A Pilot Project to Engage Volunteers in Citizen Science to Inspire Action, Increase Understanding, and Protect Estuaries*
Hope Sutton, NC NERR
- CE15.** *Resources for Creating Lifelong Ocean Science Literacy*
Kristin Uiterwyk, COSEE OCEAN
- CE16.** *The Great Lakes Have Rip Currents Too: MI's Strategy to Improve Swimmer Safety From Dangerous Nearshore Currents*
Matthew Warner, MI CZM Program
- CE17.** *Community-Based Wetland Management: Collaborative Learning and Assessment in Douglas County, WI*
Sarah Wilkins, NOAA
- CE18.** *The Municipal Blue Star Program: Inspiring Resiliency in NJ Municipalities Through Sustainable Actions*
Cassandra Ornell, Clean Ocean Action
- CE19.** *Holding on to Historic Managers: Providing a Forum for River Herring Wardens in MA*
Abigail Archer, Cape Cod Cooperative Extension
- CE20.** *Engaging Fishermen in Ocean Planning: Lessons From the New England's Commercial Fisheries Spatial Characterization and Potential Future Steps*
Nick Battista, Chincoteague Bay Field Station
- CE21.** *Building Community Through Public Participation in Research*
Anne Armstrong, Chincoteague Bay Field Station
- CE22.** *Living Shorelines and the National Sea Grant Network*
Elizabeth Bevan, NOAA

Poster Presentations



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- CE23.** *Tidal Freshwater Wetland Restoration: Volunteer-Based Wetland Restoration in the Anacostia River*
Jorge Bogantes, Anacostia Watershed Society (AWS)
- CE24.** *Salt Marsh Trends Analysis for New York City*
Rebecca Boger, Brooklyn College-CUNY
- CE25.** *The Marine Meadows Program: Linking Land-Based Participants to Underwater Restoration in Efforts to Restore Eelgrass (*Zostera marina* L.) in NY Waters*
Kimberly Barbour, Cornell Cooperative Extension of Suffolk County, NY
- CE26.** *Community-Based Restoration in an Urban Setting: Using "Eco-Volunteers" to Help Restore Oysters in New York City*
Allison Fitzgerald, NY/NJ Baykeeper
- CE27.** *Teaching about Human Health and the Constructed Environment through the Design of a Restored Wetland Park*
Phoebe Crisman, University of VA

- CE28.** *Inspiring River Restoration and Environmental Education through Design: Five Seasons of the Learning Barge*
Phoebe Crisman, University of VA

Policy and Planning (PP) Posters

- PP1.** *Blueprints: Comprehensive Coastal and Marine Spatial Planning for Northeastern U.S. Waters*
Anna Campbell, Smith College
- PP2.** *Texas Coastal and Marine Spatial Planning Initiative*
Diana Del Angel, Harte Research Institute at TX A&M University - Corpus Christi
- PP3.** *Sharing Our Seas: Understanding Ocean Use in the Northeast to Support Sound Decision-Making*
Andy Lipsky, SeaPlan
- PP4.** *Operationalizing Climate-Informed Coastal and Marine Planning*
Rachel Gregg, EcoAdapt
- PP5.** *The State of Adaptation: Assessing Climate Adaptation Activities Through a Sustained Research Initiative*
Rachel Gregg, EcoAdapt

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PP6. *Building Resilience into Protected Coastal Landscapes: NERRS Disaster Response Planning*
Matthew Chasse, NOAA

PP7. *Assessing the Impact of Climate Change on the Sustainability of Proposed Restoration Activities in the Chesapeake Bay*
Emily Egginton, VA Institute of Marine Science, College of William & Mary

PP8. *Incorporating Ecosystem Services and Socioeconomic Analysis into Ocean, Coastal, and Great Lakes Governance and Decision Making*
Thomas Fish, US DOI / CESU Network

PP9. *Identifying Cultural Resources Sites Affected by SLR at Cape Hatteras National Seashore*
Michael Flynn, East Carolina University

PP10. *North Carolina Coastal Atlas: Transforming Information to Empower Decisions*
Michael Flynn, East Carolina University

PP11. *Biological Resources and Habitats Vulnerable to SLR and Storm Activity in the Northeast U.S.*
Christopher Guy, USFWS

PP12. *Protecting Beaches and Sea Turtles: An Analysis of Beach Nourishment, Loggerhead Sea Turtles, and SLR in NC*
Kimberly Hernandez, Duke University

PP13. *Protecting the Benefits People Get From NH's Great Bay Estuary: An Ecosystem Services Approach*
Kirsten Howard, NH Coastal Program

PP14. *Biodiversity on the Brink: the Role of Assisted Migration in Managing South FL Species Threatened With Rising Seas*
Catherine Kilduff, Center for Biological Diversity

PP15. *Large-Scale Search for Tidal Mitigation Sites on the Elizabeth River, VA*
Travis Comer, ARCADIS



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- PP21. *Review of Social Indicator Efforts: Identifying Best Practices for Coastal Governance and Decision Making*
Victoria Ramenzoni, NOAA
- PP22. *Prioritization of Management Objectives in Korean Estuaries Using AHP-SWOT Model*
Jongseong Ryu, Anyang University
- PP23. *Woe is the Working Waterfront: The Challenge and Potential Solutions to the Prevalence of Industrial Uses and Brownfields in Coastal Floodplains*
Judd Schechtman, Rutgers University
- PP24. *Applying Coastal and Marine Ecological Classification Standard (CMECS) to Classify OR Estuary Habitats, Lessons Learned From a Resource Inventory Classification of OR Estuaries and Shorelands*
Patty Snow, OR Coastal Management Program
- PP25. *Emergent Wetlands Status and Trends in the Northern Gulf of Mexico: 1950-2010*
Kate Spear, USGS
- PP26. *A Climate Change Adaptation Plan in Response to SLR for the Chitimacha Tribe of LA*
Kate Spear, USGS

- PP16. *The City of Seattle's Aquatic Habitat Matching Grant Program: A Model for Restoration on Private and Public Lands in Partnership With Community*
Kathy Minsch, Seattle Public Utilities
- PP17. *Role of Land Acquisition as Conservation, Management, and Restoration Strategy: Las Cucharillas Marsh Project*
Carlos R. Morales-Agrinzoni, Ana G. Mendez University System
- PP18. *Evaluating the Impact of the NOAA Coastal Storms Program in the Gulf of Mexico Project Area*
Lou Nadeau, ERG
- PP19. *Identifying and Tracking Healthy Watersheds in the Chesapeake Bay Region*
Tuana Phillips, Chesapeake Research Consortium
- PP20. *Interactions Between Climate Change, Contaminants, Nutrients, and Ecosystems in the North Atlantic Landscape Conservation Cooperative*
Alfred Pinkney, USFWS



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PP27. *Assessing Climate Change Vulnerability in a Small Estuary: Lessons Learned From a Pilot Project in Coquille, OR*
Chris Swenson, USFWS

PP28. *Implementing a Hazard Resilience Tool in the Gulf of Mexico: The Community Resilience Index*
Jody Thompson, AUMERC/MASGC

PP29. *Wetland Mitigation Banking as Significant Contributors to Coastal Landscape-Scale Restoration and the State of Restoration Science*
Pamela Fetterman, ecoGENESIS LLC

PP30. *Legal and Policy Framework as it Pertains to PR Coastal Vegetative Wetlands*
Luis Villanueva-Cubero, University of PR Rio Piedras Campus

PP31. *Development of the NOAA Chesapeake Bay Habitat Tool*
Michelle Canick, TNC

PP32. *Prioritization of Parcels Using Climate Change GIS Modeling Tools to Facilitate Habitat Resiliency to SLR*
Leslie Gerlich, USFWS

PP33. *Climate and Collaboration in CZM: Resources From the American Planning Association*
Elizabeth Felter, American Planning Association and Coastal States Organization

PP34. *Rethinking Subsistence Fishing: Combining Biological and Socio-Economic Factors*
Liz Brown-Pickren, East Carolina University

PP35. *Chesapeake Bay Fisheries Management: A Multi-Jurisdictional Effort Applying Science to Management*
Emilie Franke, Chesapeake Research Consortium, and Andrew Turner, Versar

PP36. *Implementing a Community-Based Watershed Planning Approach to Identify FL RESTORE Priorities*
Darryl Boudreau, TNC

PP37. *Current Floodplain Management Trends in the Gulf of Mexico Coastal Programs*
Hank Hodde, NOAA

PP38. *Lessons Learned from the Hudson River Sustainable Shorelines Project: Trade-offs and Opportunities in Shoreline Decision Making*
Benjamin Ganon, SCA/NYSDEC

PP39. *Applying the Findings of the Hudson River Sustainable Shorelines Project: Crossing Boundaries and Bringing it all Together*
Lisa Graichen, Hudson River NERR and University of NH

PP40. *Context-Dependent Value of Wetlands for Protection Against Coastal Storms*
J. Luke Boutwell, LA State University, LSU AgCenter

PP41. *Development of the CPRA Oyster Lease Acquisition and Compensation Program (OLACP) – From Litigation to Legislation*
Jason Shackelford, SWCA Environmental Consultants

PP42. *The Chesapeake Bay Watershed Agreement: An Integrated and Adaptive Ecosystem Approach to Protecting and Restoring a National Treasure*
Gregory Barranco, EPA

PP43. *Chesapeake Bay Water Quality: Policy Alternatives to Negate the Impact of Nonpoint Pollutant Sources Caused by Agricultural Runoff*
Kaitlyn Cox, Roger Williams University School of Law/University of RI

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PP44. *Creating a Low Impact Development Manual for Coastal SC*

April Turner, S.C. Sea Grant Consortium

PP45. *San Francisco Bay Transition Zone Conservation and Management Decision Support System*

Brian Fulfroft, Brian Fulfroft and Associates

PP46. *Sea Level Rise Vulnerability of San Juan County, WA – An approach for Assessing Erosion and Inundation Vulnerability at the County Scale*

Alexis Blue, Coastal Geologic Services

PP47. *Connecting Property Owners with Shorelines – A Comprehensive Database of Shoreline Data at the Parcel Scale*

Alexis Blue, Coastal Geologic Services

Science, Technology, and Practice (STP) Posters

STP1. *Role of Landscape Architects in Coastal Planning*

Peter Alexander, Coastal Revitalization, LLC

STP2. *Coastal Observations in the NERR System: Filling the Information Gap Between Land and Ocean for Coastal Management*

Marie H. Bundy, NOAA

STP3. *The Michigan Dune Alliance – Restoring Eastern Lake Michigan Coastal Ecosystems Through Invasive Terrestrial Plant Species Control*

Shaun Howard, TNC

STP4. *Elizabeth B. Karter Watch Rock Preserve, Old Lyme, CT – Coastal Moist Forest Restoration and Invasive Plant Management*

Maribeth Chassey, Sacred Heart University

STP5. *Shoreline and Habitat Change at Zeke's Island, NC*

Paul Cole, UNCW

STP6. *Critical Coastal Habitat Assessment Program to Detect Impacts to Habitats From Climate Change in Tampa Bay, FL*

Lindsay Cross, Tampa Bay Estuary Program

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- STP7.** *Conservation Paleobiology: Using the Past to Inform Coastal and Estuarine Restoration*
Stephen Durham, Cornell University
- STP8.** *ShoreZone in AK and in the Pacific Northwest*
Cindy Hartmann Moore, NOAA
- STP9.** *The Proper Management of Broad Brook Mills Superfund Site*
Daniel Kielbania, Sacred Heart University
- STP10.** *Assessment of Juvenile Horseshoe Crab Nursery Habitat Requirements in Long Island Sound*
Jaclyn Lange, Sacred Heart University
- STP11.** *Restoring Hurricane-Damaged Shorebird and Horseshoe Crab Habitat on Delaware Bay, NJ*
Larry Niles, American Littoral Society (ALS)
- STP12.** *Restoration of Horseshoe Crab and Migratory Shorebird Habitat on Delaware Bay Beaches Damaged by Superstorm Sandy*
Joseph Smith, American Littoral Society
- STP13.** *Recent Expansion of Osprey Nesting in San Francisco Bay*
Anthony Brake, Golden Gate Raptor Observatory

- STP14.** *Contaminant Threats and Osprey Productivity in the Chesapeake Bay Estuary From Historic and Contemporary Perspectives*
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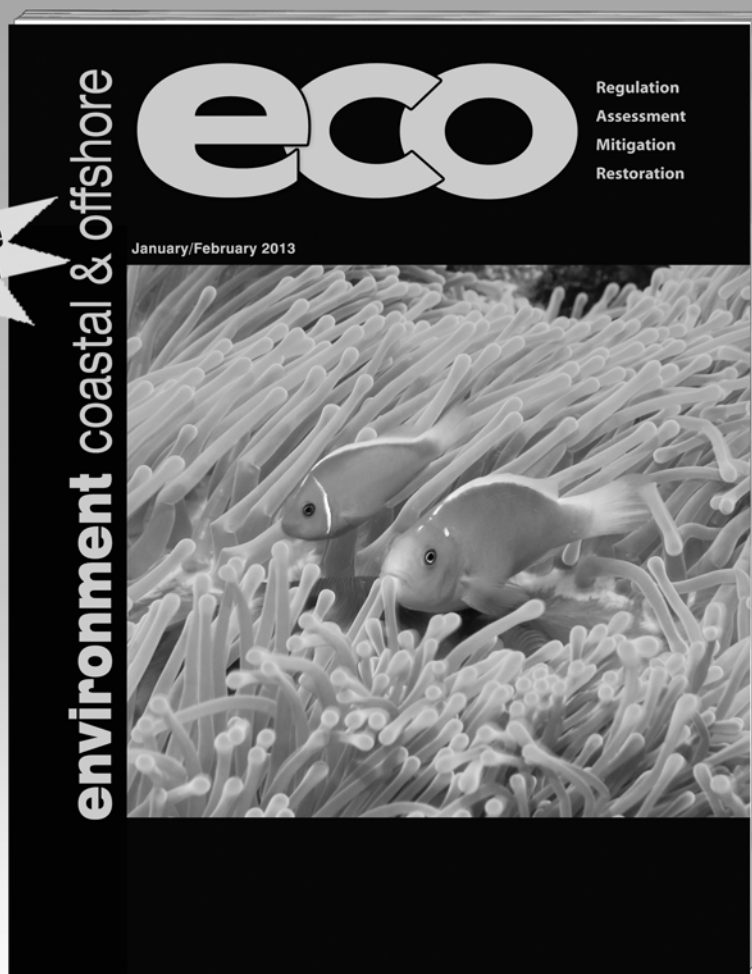
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David Tomasko, Environmental Science Associates



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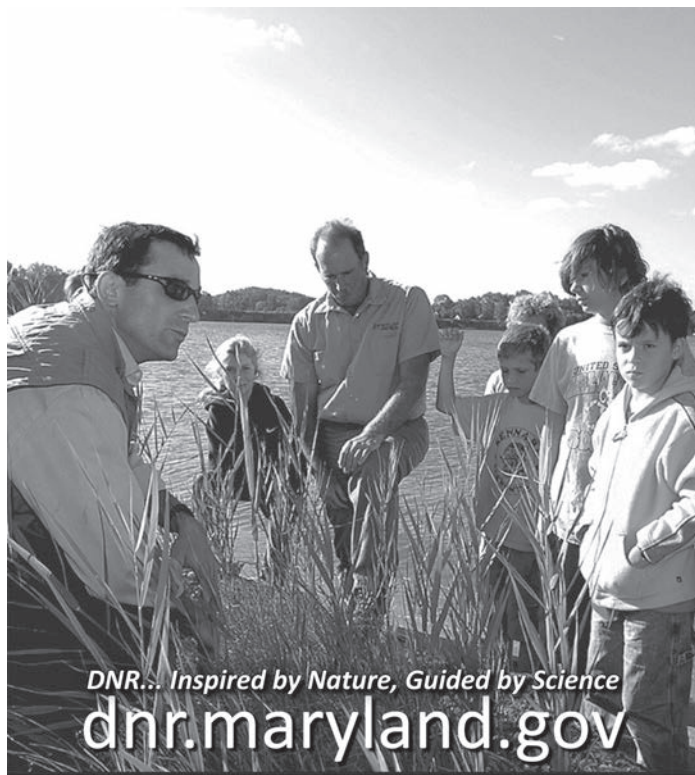
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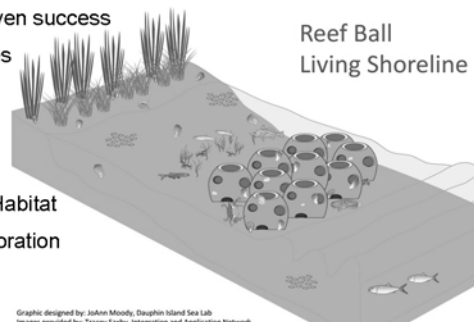
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Charter, R. - Tues. 8:30 am (NH-13)
Chasse, M. - Wed. 1:30 pm (NH-10), PP6
Chassey, M. - STP4
Chen, S. - Tues. 10:30 am (MD-4)
Chesnutt, C. - Mon. 2:00 pm (CH-DE),
Wed. 1:30 pm (MD-2)
Clapp, C. - Wed. 1:30 pm (NH-11)
Clark, P. - Mon. 2:00 pm (CH-JK),
Tues. 4:00 pm (NH-10)
Coffin, A. - Mon. 4:00 pm (MD-2)
Cohen, S. - STP22

Cole, P. - STP5
Cole, Z. - Mon. 4:00 pm (MD-2)
Cole Ekberg, M. - Wed. 10:30 am (MD-1)
Collins, K. - Tues. 8:30 am (NH-12)
Collis, H. - STP89
Comer, T. - PP15
Cooper, A. - STP51
Cornell, S.R. - Wed. 3:30 pm (MD-3)
Cosentino-Manning, N. - Tues. 8:30 am (MD-2)
Covi, M. - Wed. 1:30 pm (CH-JK)
Cox, K. - PP43
Cox, L. - Wed. 1:30 pm (MD-1)
Craghan, M. - Mon. 11:00 am (NH-13)
Craig, R. - Tues. 2:00 pm (MD-1)
Crisman, P. - CE27, CE28
Crooks, S. - Mon. 11:00 am (CH-GH)
Cross, L. - Tues. 10:30 am (CH-DE), STP6
Curley, M. - Wed. 1:30 pm (MD-2)
Currin, C. - Tues. 10:30 am (NH-10)
Curson, D. - Wed. 10:30 am (MD-1)

D

Dalbom, C. - Mon. 11:00 am (MD-4)
Daoust, R. - Mon. 11:00 am (MD-4)
Darnell, C. - Wed. 1:30 pm (CH-GH)
Davidson, M. - Mon. 11:00 am (NH-11),
Mon. 2:00 pm (NH-12)
Davis, C. - Mon. 11:00 am (MD-2)
Davis, Jana - Tues. 4:00 pm (NH-10)
Davis, Jenny - STP23
Davis, Jeff - Tues. 4:00 pm (MD-3)
Davis, M. - Mon. 11:00 am (MD-1)
Davis, Sandra - Wed. 3:30 pm (NH-11)
Davis, Scott - Tues. 4:00 pm (NH-11)
DeBruyckere, L. - Tues. 4:00 pm (MD-3),
Wed. 10:30 am (MD-3)
Deegan, L. - Wed. 1:30 pm (NH-11)
Del Angel, D. - PP2
Delgado, P. - Tues. 10:30 am (MD-3)
DeMunda, T. - Tues. 10:30 am (NH-12)
Dennison, W. - Mon. 11:00 am (CH-AB)
Derby, R.K. - STP24

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Devier, D. - Mon. 4:00 pm (CH-GH)

Devin, M. - Wed. 3:30 pm (CH-DE)

DeVoe, M.R. - Mon. 4:00 pm (CH-AB),
Tues. 2:00 pm (NH-11)

DeVore, D. - Wed. 10:30 am (NH-10)

Dewey, B. - Wed. 3:30 pm (CH-DE)

Diamond, J. - Mon. 11:00 am (MD-1)

Dilks, N. - Tues. 8:30 am (MD-3)

Dillingham, T. - Mon. 11:00 am (NH-10),
Mon. 2:00 pm (NH-10)

Dingle, R. - STP53

Dobberstine, J. - Tues. 8:30 am (CH-JK), STP38

Doherty, J. - Tues. 8:30 am (NH-11)

Dolan, A. - STP33

Donnelly, M. - Wed. 10:30 am (NH-10)

Doss, T. - Mon. 2:00 pm (MD-2),
Wed. 3:30 pm (CH-GH)

Douglass, J.C. - Wed. 10:30 am (NH-10)

Douglass, S. - Mon. 11:00 am (NH-10)

Doyle, J. - Wed. 10:30 am (CH-GH)

Drinkwin, J. - Tues. 10:30 am (NH-10),
Wed. 1:30 pm (NH-12)

DuBois, K. - Mon. 2:00 pm (NH-10),
Wed. 10:30 am (NH-10)

Duet, B. - Wed. 1:30 pm (CH-DE)

Duhring, K. - Tues. 10:30 am (NH-10)

Durance, C. - Tues. 8:30 am (MD-4)

Durham, S. - STP7

E

Egginton, E. - PP7

Eickenberg, P. - Tues. 2:00 pm (NH-12)

Eisenbise, S. - Tues. 2:00 pm (CH-JK)

Ellis, C. - Mon. 2:00 pm (NH-13),
Wed. 3:30 pm (CH-AB)

Elwell, H. - Wed. 10:30 am (NH-12)

Emmer, I. - Mon. 4:00 pm (CH-GH)

Emmett-Mattox, S. - Mon. 2:00 pm (CH-GH),
Mon. 4:00 pm (CH-GH)

Engler, L. - Wed. 10:30 am (MD-2)

Enloe, M. - Mon. 2:00 pm (NH-11)

Erickson, M. - Mon. 2:00 pm (CH-AB)

Ernst, N. - STP77

Escude, D. - Tues. 8:30 am (MD-1)

F

Farady, S. - Tues. 10:30 am (NH-13)

Farrell, J. - Mon. 4:00 pm (NH-11)

Farrell, P. - Mon. 4:00 pm (MD-4)

Feather, T. - Wed. 1:30 pm (MD-3)

Felt, J. - Tues. 2:00 pm (NH-13)

Felter, E. - Tues. 4:00 pm (NH-13), PP33

Ferdaña, Z. - Tues. 4:00 pm (NH-13)

Ferguson, W. - Wed. 10:30 am (MD-1)

Ferraro, C. - Wed. 3:30 pm (NH-10)

Fetterman, P. - PP29

Feurt, C. - Wed. 10:30 am (CH-DE)

Feyen, J. - Tues. 2:00 pm (CH-DE)

Fikes, R. - Tues. 8:30 am (NH-13)

Fischbach, J. - Tues. 4:00 pm (NH-11)

Fish, T. - PP8

Fisher, M. - Mon. 4:00 pm (NH-11)

Fitzgerald, A. - CE26

Fleckenstein, E. - Tues. 2:00 pm (CH-AB)

Fletcher, K. - Tues. 2:00 pm (MD-1)

Floberg, J. - Mon. 4:00 pm (NH-12)

Florez Bossio, C. - Tues. 8:30 am (NH-12)

Flynn, M. - Tues. 4:00 pm (CH-JK),
Wed. 3:30 pm (MD-4), PP9, PP10

Fodrie, J. - Tues. 2:00 pm (MD-2)

Foster, J. - Tues. 8:30 am (NH-11)

Fox, S. - Tues. 4:00 pm (NH-13)

Franke, E. - PP35

Frankic, A. - CE3

Frazel, D.W. - Wed. 10:30 am (CH-JK)

Freed, A. - Tues. 4:00 pm (NH-11)

Freeman, A. - Mon. 2:00 pm MD-1,
Wed. 10:30 am (MD-5)

Freeman, H. - Tues. 2:00 pm (CH-AB)

French, N. - Mon. 11:00 am (MD-2)

Friis, M. - Mon. 11:00 am (NH-12)

Fugate, G. - Tues. 2:00 pm (NH-11)

Fulfrost, B. - PP45

G

Gallagher, C. - Tues. 10:30 am (MD-3)

Gangnes, D. - Tues. 4:00 pm (NH-12)

Ganon, B. - PP38

Gardner, M. - Tues. 10:30 am (MD-2)

Garner, M. - Mon. 11:00 am (NH-13)

Gates, J. - Wed. 1:30 pm (CH-AB)

Geerlofs, S. - Tues. 10:30 am (CH-GH)

Gerlich, L. - PP32

Gittman, R. - Mon. 11:00 am (NH-10)

Goldsborough, W. - Wed. 3:30 pm (CH-GH)

Goldstein, A. - Tues. 4:00 pm (CH-GH)

Gonzalez, L. - Wed. 3:30 pm (MD-1)

Gonzalez-Rothi Kronenthal, S. -
Mon. 11:00 am (NH-12), Tues. 4:00 pm (NH-11)

Goodin, D. - Tues. 4:00 pm (NH-10)

Gorham, S. - Mon. 2:00 pm (CH-JK)

Graichen, L. - PP39

Grannis, J. - Mon. 4:00 pm (NH-10),
Tues. 4:00 pm (NH-11)

Grant, K. - Wed. 10:30 am (CH-GH)

Green, A. - Wed. 1:30 pm (MD-1)

Gregg, R. - Tues. 4:00 pm MD-1, PP4, PP5

Greiner, J. - Wed. 3:30 pm (NH-11)

Grimaldo, L. - Wed. 3:30 pm (CH-JK)

Gross, K. - Mon. 4:00 pm (CH-DE)

Gruber, M. - Mon. 11:00 am (CH-JK)

Grunden, D. - STP83

Guiteras, S. - Mon. 4:00 pm (CH-JK), STP78

Guttman, E. - Tues. 2:00 pm (CH-JK)

Guy, C. - PP11

H

Hancock, B. - Mon. 11:00 am (MD-3)

Hanisak, M.D. - Mon. 2:00 pm (CH-JK)

Hanson, B. - Wed. 1:30 pm (CH-DE)

Harris, J. - Tues. 2:00 pm (NH-10)

Harris, M. - Tues. 10:30 am (CH-GH)

Hartmann Moore, C. - Tues. 10:30 am
(NH-13), STP8

Hauser, E. - Tues. 2:00 pm (NH-10)

Heft, A. - Wed. 3:30 pm (NH-11)

Helvarg, D. - Mon. 4:00 pm (MD-4)

Henderson, R. - Mon. 11:00 am (CH-JK)

Hennessey, J. - Tues. 2:00 pm (NH-11)

Hensel, P. - Tues. 10:30 am (MD-3)

Hepler, K. - Wed. 10:30 am (MD-3)

Herder, T. - Wed. 3:30 pm (NH-10)

Hernandez, D. - Tues. 2:00 pm (CH-DE)

Hernandez, K. - PP12

Herndon, S. - Tues. 2:00 pm (MD-2)

Herrin, L. - Wed. 3:30 pm (MD-4)

Hertz, E. - Wed. 1:30 pm (CH-AB)

Herzog, P. - Tues. 10:30 am (MD-2)

Hicks, S. - Mon. 2:00 pm (NH-13)

Hillier, T. - Mon. 4:00 pm (MD-3)

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all our most pleasing responsibility.
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foster its renewal is our only hope.

—Wendell Berry

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Biohabitats

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Hines, E. - Wed. 3:30 pm (CH-AB)

Hinson, A. - STP26

Hodde, H. - PP37

Hodgson, C. - STP27

Holcomb, K. - Mon. 4:00 pm (CH-JK), STP80

Holm, G. - STP25

Hooker, B. - Mon. 4:00 pm (MD-4)

Hoskins, K.D. - Tues. 4:00 pm (CH-GH)

Hotaling, A. - Mon. 2:00 pm (CH-JK), CE4

Howard, J. - Mon. 11:00 am (CH-GH)

Howard, K. - Tues. 4:00 pm (CH-GH), PP13

Howard, S. - STP3

Huang, L. - Mon. 11:00 am (NH-13)

Hudson, R. - Wed. 10:30 am (MD-2)

Hum, K. - Tues. 8:30 am (MD-2)

Hummel, P. - Tues. 4:00 pm (NH-12)

Hunt, J. - Wed. 3:30 pm (MD-3)

Hwang, D. - Tues. 2:00 pm (MD-1)

I

Ihde, T. - Wed. 1:30 pm (MD-4)

Infante, D. - Tues. 2:00 pm (MD-3)

Isdell, R. - STP45

J

Jacobs, A. - STP101

Jacobs, K.R. - Tues. 4:00 pm (CH-GH)

Janeski, T. - Tues. 2:00 pm (MD-2)

Janiec, D. - Mon. 4:00 pm (NH-13)

Jaworksi, M. - Wed. 10:30 am (MD-4)

Jeffrey, L. - Mon. 4:00 pm (CH-AB)

Jennette, M. - STP39

Jesien, R. - STP46, STP47

Jewett, L. - Wed. 3:30 pm (CH-DE)

Johannessen, J. - Mon. 2:00 pm (MD-2), STP40

Johannsen, J. - Wed. 1:30 pm (NH-10)

Johnson, K. - Tues. 10:30 am (CH-JK),
Wed. 10:30 am (CH-DE)

Johnson, Z. - Tues. 4:00 pm (CH-AB)

Jordan, T. - Wed. 3:30 pm (NH-12)

Jung, J. - Tues. 10:30 am (NH-13)

Jurado, J. - Mon. 11:00 am (NH-12)

K

Kamal, A.H.M. - STP85

Kamber, D. - Mon. 11:00 am (NH-13),
Tues. 8:30 am (MD-1)

Kanabrocki, A. - Tues. 2:00 pm (CH-AB)

Kang, D. - Tues. 4:00 pm (CH-JK)

Karrh, L. - Wed. 3:30 pm (NH-12)

Katagi, W. - Tues. 10:30 am (CH-DE)

Katkowski, M. - STP92

Kelly, F. - Tues. 4:00 pm (CH-AB)

Kelly, G. - Tues. 8:30 am (MD-3)

Kelsall, M. - Wed. 3:30 pm (MD-3), STP52

Kennedy, S. - Tues. 2:00 pm (MD-4)

Kerkering, H. - Tues. 2:00 pm (CH-DE)

Kerns, T. - Mon. 2:00 pm (MD-3)

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Kielbania, D. - STP9

Kilduff, C. - PP14

Kirby III, J. - Tues. 2:00 pm (NH-12)

Kirshen, P. - Mon. 4:00 pm (NH-13)

Klay, K. - Wed. 3:30 pm (MD-5), CE5

Klonsky, L. - Tues. 10:30 am (MD-2)

Koslow, D. - Mon. 4:00 pm (CH-AB)

**Kraatz, L. - Mon. 11:00 am (NH-12),
Tues. 4:00 pm (NH-13)**

Krest, S. - Tues. 2:00 pm (MD-4)

Krikstan, C. - Mon. 2:00 pm (NH-11)

Kuska, G. - Tues. 2:00 pm (CH-DE)

L

Lacatell, A. - Wed. 3:30 pm (CH-GH)

Lagumbay, R. - Tues. 8:30 am (MD-1)

Land, L. - Wed. 10:30 am (NH-11)

Land, S. - Wed. 10:30 am (CH-DE)

Lange, J. - STP10

Lansdale, S. - Wed. 1:30 pm (NH-11)

Larsen, K. - Wed. 1:30 pm (MD-4)

Larson, M. - Wed. 1:30 pm (MD-1)

Lathrop, R. - Tues. 4:00 pm (NH-13)

Latta, M. - STP41

Lawler, S. - Mon. 2:00 pm (MD-4)

Lawrence, P. - Tues. 2:00 pm (CH-GH)

Lazar, J. - Mon. 4:00 pm (CH-DE)

Lazarus, R.S. - STP14

**LeBlanc, J. - Mon. 2:00 pm (MD-1),
Tues. 8:30 am (MD-1)**

Lederhouse, T. - Mon. 2:00 pm (MD-3)

Leduc-Lapierre, M. - STP102

Leigh, T. - Mon. 11:00 am (NH-10)

Leisnham, P. - Wed. 10:30 am (CH-DE)

Lentsch, L. - Mon. 2:00 pm (MD-4)

Leverone, J. - Wed. 3:30 pm (CH-AB)

Lewandowski, E. - Wed. 10:30 am (NH-11)

Lewis, A. - Tues. 4:00 pm (CH-JK)

Lewis, K. - Tues. 10:30 am (MD-4)

Linder, C. - Wed. 1:30 pm (CH-DE)

Linderth, P. - STP16

Lipsky, A. - Wed. 10:30 am (MD-4), PP3

LoBue, C. - Wed. 1:30 pm (NH-11)

Loerzel, J. - Mon. 4:00 pm (MD-2)

Lohnes, R. - Tues. 10:30 am (CH-JK), STP42

London, J. - Wed. 10:30 am (MD-4)

Long, L. - Wed. 10:30 am (NH-12)

Lord, C. - Mon. 11:00 am (MD-2)

Love, R. - Tues. 4:00 pm (NH-13)

Lovelace, S. - Wed. 1:30 pm (MD-3)

Lubetkin, J. - Tues. 8:30 am (CH-AB)

Lundberg, D. - STP54

Lusk, B. - Wed. 3:30 pm (CH-GH)

Lyerly, C. - Mon. 11:00 am (CH-AB)

Lynch, M. - Wed. 3:30 pm (MD-2)

M

Mackinnon, J. - STP35

MacDonald, T. - Mon. 2:00 pm (NH-13)

MacLeaod, S. - Wed. 1:30 pm (CH-JK)

Magnuson, G. - Mon. 2:00 pm (NH-13)

Maher, N. - STP79

Malinowski, P. - CE2

Malizzi, L. - STP43

Manning, J. - Wed. 3:30 pm (CH-DE)

Manning, L. - Tues. 10:30 am (CH-JK)

Mansfield, M. - Mon. 4:00 pm (MD-3)

Marcus, J. - Tues. 8:30 am (MD-4)

Marella, M. - Tues. 4:00 pm (NH-11)

Markusic, J. - Tues. 4:00 pm (CH-AB)

Marlowe, H. - Wed. 1:30 pm (MD-2)

Martin, E. - Tues. 10:30 am (CH-GH)

Martz, M. - Tues. 4:00 pm (NH-12)

Mason, P. - Mon. 11:00 am (NH-11)

Maxson, L. - Tues. 10:30 am (MD-2)

May, C. - Wed. 10:30 am (MD-5)

McCammon, M. - Tues. 2:00 pm (CH-DE)

**McCann, J. - Tues. 2:00 pm (NH-11),
Tues. 4:00 pm (MD-4)**

McCarty, A. - Mon. 2:00 pm (CH-GH)

McClain, S. - Tues. 10:30 am (CH-GH)

McCreary, J. - Tues. 2:00 pm (CH-GH)

McFarlane, J. - STP34

McGee, B. - Tues. 10:30 am (CH-AB)

McGowan, P. - STP15

McMurray, A. - Wed. 1:30 pm (MD-3)

McNally, M. - Wed. 10:30 am (CH-AB)

Mercado-Irizarry, A. - Tues. 2:00 pm (CH-DE)

Merrill, S. - STP55

Meyer, G. - Tues. 2:00 pm (CH-GH)

Meyer, J. - STP56

Meyers, E. - Mon. 11:00 am (NH-11)

**Miller, J. - Tues. 10:30 am (NH-11),
Wed. 1:30 pm (NH-10)**

**Miller, T. - Mon. 2:00 pm (NH-10),
Tues. 2:00 pm (CH-AB)**

Milne, J. - Wed. 3:30 pm (MD-5), STP17

Minsch, K. - PP16

Mitchell, L. - Tues. 10:30 am (MD-3)

Modjeski, A. - STP108

Moore, C. - Mon. 2:00 pm (MD-3)

Morales-Agrinzoni, C.R. - PP17

Mordecai, R. - Wed. 10:30 am (MD-3)

Morgereth, E. - STP44

Morningstar, D. - Mon. 4:00 pm (NH-10)

Morrison, R. - Tues. 2:00 pm (CH-DE)

**Moser, S. - Mon. 2:00 pm (NH-12),
Mon. 4:00 pm (NH-11)**

Motwani, D. - Mon. 2:00 pm (CH-DE)

Muller, A. - Wed. 3:30 pm (MD-2)

Muller, C. - Mon. 4:00 pm (CH-AB)

Muller, D. - STP105

Mullin, K. - Mon. 11:00 am (CH-JK)

Mulvaney, K. - CE6

Munsch, S. - Tues. 4:00 pm (NH-12)

Murphy, D. - Wed. 10:30 am (MD-4)

Murray, J. - Wed. 3:30 pm (CH-GH)

Musa, J.C. - STP86

Myers, D. - Wed. 3:30 pm (MD-2)

N

Nadeau, L. - Tues. 4:00 pm (CH-JK), PP18

Nam, J. - Wed. 1:30 pm (MD-5)

Narra, S. - Wed. 1:30 pm (CH-GH)

Needelman, B. - Wed. 10:30 am (CH-DE)

**Nelsen, C. - Tues. 4:00 pm (CH-GH),
Wed. 1:30 pm (CH-GH)**

Neubert, P. - Wed. 10:30 am (MD-2)

Newcomer Johnson, T. - CE7

**Newton, J. - Mon. 11:00 am (CH-DE),
Tues. 2:00 pm (CH-DE)**

Newton Mann, A. - Wed. 1:30 pm (CH-JK)

Niemi, K. - Mon. 4:00 pm (MD-3)

Nieves, H. - Wed. 3:30 pm (MD-1)

Niles, L. - STP11

Nixon, M. - Wed. 1:30 pm (CH-JK)

Norman, W. - Mon. 4:00 pm (CH-AB)

Norris, L. - Wed. 3:30 pm (MD-5)

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Oakley, A. - Wed. 3:30 pm (MD-3)

O'Brien, D. - Tues. 2:00 pm (NH-10)

O'Brien, E. - Tues. 4:00 pm (MD-2)

O'Connell, K. - Mon. 4:00 pm (NH-12), Wed. 3:30 pm (MD-5)

O'Donnell, A. - Tues. 4:00 pm (MD-2)

Ohleth, K. - Tues. 2:00 pm (NH-11)

Olson, T. - Tues. 4:00 pm (CH-DE)

Oreska, M. - STP28

Ornell, C. - CE18

Orr, M. - Wed. 3:30 pm (CH-JK)

Ortego, T. - Tues. 8:30 am (NH-10), STP93

Osborne, J.H. - Wed. 1:30 pm (MD-4)

Ostroff, A. - Tues. 2:00 pm (MD-3)

Overcash, C. - Tues. 2:00 pm (CH-JK)

P

Pace, N. - Mon. 2:00 pm (NH-10),
Mon. 4:00 pm (NH-10)

Page, H. - Tues. 4:00 pm (NH-12)

Pagliarulo, L. - Tues. 10:30 am (CH-AB)

Palmer, J. - Wed. 10:30 am (CH-JK), STP94

Paolisso, M. - Wed. 10:30 am (CH-DE)

Pap, R. - Mon. 4:00 pm (NH-13)

Parson, W. - Mon. 2:00 pm (NH-11)

Paternoster, J. - STP18

Paternostro, C. - Tues. 10:30 am (MD-3)

Paterson, S. - Tues. 8:30 am (CH-DE)

Pawlak, B. - Mon. 2:00 pm (CH-GH)

Paynter, K. - Mon. 4:00 pm (CH-DE)

Peck, G. - Tues. 2:00 pm (NH-12)

Perez, B. - Mon. 4:00 pm (CH-GH)

Perry, Cameron - STP58

Perry, Carey Lynn - Tues. 8:30 am (NH-13)

Peters, S. - CE8

Petrell, R.J. - Wed. 10:30 am (MD-2)

Petrosians, H.A. - STP84

Petty, M. - STP100

Petty, T. - Wed. 3:30 pm (NH-11)

Peyronnin, N. - Tues. 8:30 am (MD-1),
Tues. 4:00 pm (NH-11)

Peyton, K. - Tues. 4:00 pm (MD-3)

Pfeifer, C. - Tues. 8:30 am (CH-JK)

Phillips, S. - Mon. 11:00 am (CH-AB)

Phillips, T. - Wed. 3:30 pm (MD-5), PP19

Pichon Battle, C. - Mon. 11:00 am (MD-1)

Pidgeon, E. - Mon. 2:00 pm (CH-GH)

Pinet, P. - Wed. 10:30 am (MD-4)

Pinkney, A. - PP20

Pitts, P. - Wed. 3:30 pm (MD-2)

Pletta, M. - CE9

Polefka, S. - Wed. 1:30 pm (CH-GH)

Porthouse, J. - Mon. 2:00 pm (CH-AB)

Prancus, M. - Tues. 4:00 pm (CH-DE)

Pratt, A. - Wed. 1:30 pm (MD-2)

Precht, W. - Tues. 10:30 am (MD-4)

Preston, J. - CE10

Pringle, M. - Wed. 10:30 am (NH-10)

Pully, S. - Wed. 3:30 pm (MD-4)



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R

Rahman, F. - Mon. 11:00 am (CH-GH)

Ramenzoni, V. - PP21

Raulerson, G. - Mon. 11:00 am (MD-3)

Ravit, B. - Mon. 11:00 am (MD-3)

Ray, C. - STP31

Ray-Culp, M. - Wed. 10:30 am (NH-10)

Reed, Debbie - Tues. 10:30 am (CH-AB)

Reed, Denise - Mon. 11:00 am (NH-11)

Reeve, K.E. - Tues. 4:00 pm (NH-11)

Reiner, E.L. - Mon. 2:00 pm (MD-4), STP59

Retana, G. - Mon. 2:00 pm (MD-1)

Rezullo, J. - Wed. 1:30 pm (NH-12)

Richards, C. - Mon. 2:00 pm (MD-4), STP60

Richards, H. - Mon. 4:00 pm (NH-12)

Richardson, K. - Mon. 11:00 am (CH-GH)

Ries, T. - Mon. 2:00 pm (NH-10),
Tues. 8:30 am (CH-JK)

Riseng, C. - Tues. 4:00 pm (MD-3)

Rivera-De Jesús, W.O. - STP57

Rizzo, A. - Tues. 2:00 pm (MD-4)

Roberson, J. - Wed. 3:30 pm (CH-DE)

Roche, D. - Mon. 11:00 am (MD-1)

Rodriguez, A. - Wed. 3:30 pm (MD-1)

Rogers, T. - Tues. 8:30 am (CH-GH)

Ross, A. - Tues. 8:30 am (CH-DE)

Ross, B. - Mon. 2:00 pm (NH-10)

Russonello, J. - Tues. 8:30 am (CH-AB)

Ruth, M. - Mon. 2:00 pm (MD-2)

Ryu, J. - PP22

S

Sanborn, S. - Mon. 2:00 pm (MD-1)

Sandoval, I. - Tues. 8:30 am (NH-12)

Sanford, E. - CE11

Sapp, B. - Wed. 1:30 pm (NH-10)

Saunders, K. - Tues. 8:30 am (NH-11)

Savercool, D. - Mon. 4:00 pm (NH-13)

Scaggs, B. - Mon. 2:00 pm (CH-AB)

Schaeffer, K. - Wed. 1:30 pm (MD-4)

Schechtman, J. - PP23

Scheef, L. - Tues. 10:30 am (NH-12)

Schile, L. - STP61

Schnabel, R. - Wed. 1:30 pm (NH-10)

Schuler, G. - Wed. 10:30 am (MD-3)

Schwenk, S. - Wed. 3:30 pm (NH-11)

Scoggin, S. - STP19

Seitz, R. - Wed. 3:30 pm (NH-12)

Sekich-Quinn, S. - Mon. 4:00 pm (MD-4)

Seldomridge, E. - Tues. 10:30 am (NH-12), STP103

Serenbetz, G. - Tues. 4:00 pm (MD-2)

Servold, K. - Tues. 4:00 pm (NH-10)

Shackelford, J. - PP41

Shadel, B. - Tues. 2:00 pm (CH-JK)

Shannon, J. - STP90

Sharp, L.A. - Wed. 10:30 am (CH-AB), STP66

Shaw, W. - CE12

Shed, L. - Mon. 2:00 pm (NH-13)

Shelley, P. - Tues. 8:30 am (NH-12)

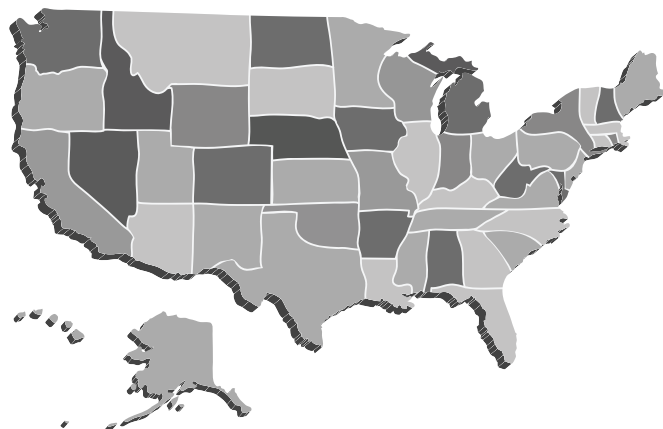
Sherrouse, B. - Mon. 4:00 pm (MD-2)

Shultz, M. - Tues. 10:30 am (NH-11)

Sipocz, M. - Wed. 10:30 am (CH-AB)

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Skaggs, K. - Mon. 11:00 am (NH-12)

Slacum, W. - Mon. 4:00 pm (CH-DE)

Slovinsky, P. - Wed. 1:30 pm (CH-AB)

Smith, E. - Wed. 1:30 pm (NH-11)

Smith, J. - Tues. 2:00 pm (MD-4)

Smith, J. - STP12

Smith, L. - STP62

Smith, M. - Tues. 10:30 am (CH-DE)

Smith, T. - Tues. 8:30 am (CH-GH)

Snow, P. - Mon. 11:00 am (MD-4), PP24

Soto, K. - STP104

Spear, K. - PP25, PP26

Spent, R. - Mon. 11:00 am (MD-4)

Sprague, S. - Wed. 3:30 pm (MD-4)

Springuel, N. - Wed. 10:30 am (CH-GH)

Stauffer, P. - Wed. 1:30 pm (CH-JK)

Stedman, S. - Tues. 4:00 pm (MD-2)

Stein, K. - Tues. 10:30 am (CH-DE)

Stellp, P. - CE13

Stern, E. - Tues. 2:00 pm (NH-12)

Stites, D. - Mon. 2:00 pm (CH-JK)

Stoddard, A. - Mon. 2:00 pm (MD-1)

Stone, Jeff - Wed. 10:30 am (MD-5)

Stone, Jonathan - Wed. 3:30 pm (MD-5)

Sturm, P. - Tues. 2:00 pm (CH-JK)

Subramanian, B. - Mon. 4:00 pm (NH-10), Wed.
1:30 pm (MD-5)

Suedel, B. - Tues. 8:30 am (NH-10)

Sullivan, J. - Tues. 2:00 pm (MD-2), STP95

Sutter, B. - Tues. 8:30 am (NH-13), Wed. 10:30 am
(MD-3)

Sutton, H. - CE14

Sutton-Grier, A. - Mon. 11:00 am (CH-GH),
Mon. 2:00 pm (CH-GH)

Sweeney, C. - Wed. 10:30 am (MD-5)

Swenson, C. - PP27

T

Tang, J. - Tues. 8:30 am (CH-GH)

Taylor, C. - Tues. 2:00 pm (NH-12)

Taylor, S. - Mon. 11:00 am (NH-11), STP63

Telesetsky, A. - Wed. 1:30 pm (MD-3)

Terril, E. - Tues. 2:00 pm (CH-DE)

Terry, K. - Wed. 1:30 pm (MD-1)

Testroet- Bergeron, S. - Mon. 4:00 pm (MD-4)

Thompson, J. - Wed. 10:30 am (CH-GH), PP28

Thompson, R. - Wed. 1:30 pm (MD-5)

Thomson, G. - Wed. 1:30 pm (CH-DE)

Thorhaug, A. - Tues. 8:30 am (MD-4)

Ticco, P. - Tues. 10:30 am (CH-JK)

Tjaden, R. - Wed. 10:30 am (CH-DE)

Toline, C.A. - Mon. 11:00 am (MD-3), STP20

Tomasko, D. - STP87

Tomaszewski, L. - STP64

Tori, G. - Tues. 8:30 am (CH-AB)



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Townsend, H. - Mon. 4:00 pm (CH-DE)
Tromble, G. - Mon. 2:00 pm (MD-3)
Tucker, K. - Tues. 10:30 am (CH-DE)
Turek, J. - Wed. 1:30 pm (MD-1)
Turner, Andrew - PP35
Turner, April - PP44
Turner, D. - Tues. 4:00 pm (CH-AB)

U

Uiterwyk, K. - Wed. 10:30 am (MD-2), CE15
Ullrich, D. - Mon. 11:00 am (MD-2)
Uphoff, J. - Mon. 2:00 pm (MD-3)

V

Valente, J. - Mon. 2:00 pm (NH-11)
Valoppi, L. - Mon. 2:00 pm (MD-4)

Van der Tak, L. - Mon. 2:00 pm (MD-2)
Van Nostrand, D. - Tues. 2:00 pm (NH-10)
van Riper, C. - Mon. 4:00 pm (MD-2)
Vander Schaaf, D. - Wed. 10:30 am (CH-AB)
Vázquez, E. - Wed. 3:30 pm (MD-1)
Villanueva-Cubero, L. - PP30
Vuxton, E. - Tues. 10:30 am (NH-11)

W

Waddell, K. - Mon. 2:00 pm (CH-AB)
Wagner, P. - Tues. 10:30 am (NH-11), Tues. 4:00 pm (NH-11)
Wainger, L. - Wed. 10:30 am (CH-DE)
Walker, N. - Mon. 11:00 am (MD-4)
Walker, R. - Wed. 1:30 pm (MD-5)
Walker, S. - Wed. 1:30 pm (CH-AB)
Walker, T. - Tues. 8:30 am (CH-GH)
Walls, M. - Mon. 11:00 am (NH-13)
Walters, L. - Tues. 2:00 pm (MD-2)
Wang, F. - STP65
Ward, B. - Wed. 10:30 am (NH-12)
Ward, S. - Tues. 10:30 am (CH-AB)
Warner, M. - CE16
Washburn, A. - Mon. 2:00 pm (CH-DE)
Washburn, E. - Mon. 4:00 pm (NH-11)
Watson, B. - Wed. 1:30 pm (MD-2)
Webb, B.M. - Wed. 3:30 pm (NH-10)
Wehrly, K. - Tues. 4:00 pm (MD-3)
Weis, J. - STP67
Weishar, L. - Tues. 10:30 am (NH-12), Wed. 10:30 am (CH-AB)
Weissberger, E. - Mon. 4:00 pm (CH-DE), STP91
Weller, N. - Tues. 10:30 am (MD-4)
Wenzel, L. - Tues. 8:30 am (NH-12)



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Whelan, G. - Tues. 2:00 pm (MD-3),
Tues. 4:00 pm (MD-3)

Whigham, D. - Wed. 3:30 pm (NH-12)

Whitbeck, M. - Mon. 4:00 pm (CH-JK)

White, D. - Tues. 8:30 am (NH-13)

Whitehouse, S. - Tues. 10:30 am (NH-13)

Whitlock, J. - Tues. 2:00 pm (MD-4)

Wigglesworth, D. - Mon. 11:00 am (MD-4),
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Wilcox, C. - Wed. 3:30 pm (CH-JK)

Wiley, P. - Tues. 2:00 pm (NH-10)

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Wiley, K. - STP96

Willis, Z. - Tues. 2:00 pm (CH-DE)

Wilson, B. - Wed. 10:30 am MD-1, STP68

Wilson, C. - Mon. 2:00 pm (CH-AB)

Wilson, W.D. - STP21

Windham-Myers, L. - Wed. 10:30 am (MD-5),
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Winter Whelan, S. - Tues. 2:00 pm (NH-13),
Tues. 4:00 pm (MD-4)

Wollenberg, J. - STP69

Woodward, C. - Tues. 10:30 am (CH-JK)

Wowk, K. - Mon. 2:00 pm (CH-DE)

XYZ

Xia, M. - STP106

Yactayo, G. - STP107

Yepsen, M. - STP71


York, D. - Tues. 8:30 am (MD-2)

Yoskowitz, D. - Tues. 8:30 am (CH-DE)


Yu, M. - STP72

Zemel, H. - Wed. 3:30 pm (CH-AB), STP73

Zippin, D. - Wed. 3:30 pm (CH-JK)



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Many thanks to everyone who helped make the Summit an overwhelming success.
Thanks to our host, Chesapeake Bay Foundation, and to the
2014 Summit Program Committee for all of their long hours and hard work!

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Restore America's Estuaries

Julia Wyman,
*Marine Affairs Institute at Roger Williams University School of
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Stephanie Westby, *NOAA*
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David Yoskowitz, *Harte Research Institute*

Thank You



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Local Planning Committee

We are grateful to our local host, the Chesapeake Bay Foundation, 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.

Joe Berg, *Biohabitats, Inc.*

Carli Bertrand, *NOAA*

Kimberly Burke, *Restore America's Estuaries*

Elsa Carlisle-Schwartz, *Restore America's Estuaries*

Kim Coble, *Chesapeake Bay Foundation*

Alexandra Hatcher, *Chesapeake Bay Foundation*

Danielle Hodgkin, *Chesapeake Bay Foundation*

Bart Jaeger, *Chesapeake Bay Foundation*

Jen McDonnell, *Arlington County Environmental Services*

James (Sam) Stribling, *Tetra Tech, Inc.*

Camera Thomas, *Chesapeake Bay Foundation*

Julia Wyman, *The Coastal Society*

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

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