Restore America’s Estuaries 7th National Summit on Coastal and Estuarine Restoration and 24th Biennial Meeting of The Coastal Society

Inspiring Action, Creating Resilience

Gaylord National Convention Center
National Harbor, Maryland
November 1-6, 2014

Summit 2014 App!
Download and Personalize Your National Summit Agenda Here!
www.RAETCS14.sched.org

www.estuaries.org/summit
#RAETCS14

"Heron on the Bay" by John Brandon Sills
Welcome to the 7th National Summit on Coastal and Estuarine Restoration and 24th Biennial Meeting of 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 ad collectors reception at the Academy Art Museum in Easton, MD.

*For more information on John Brandon Sills, please visit: [www.johnbrandonsills.com](http://www.johnbrandonsills.com)*
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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.
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

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.
## Saturday, November 1, 2014

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<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tr>
<td>8:30 am – 1:30 pm</td>
<td>Community Restoration Project at Heritage Marsh in the Anacostia Watershed</td>
<td>Depart from Maryland Bus Loop</td>
</tr>
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## Sunday, November 2, 2014

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
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<tbody>
<tr>
<td>9:00 am – 4:30 pm</td>
<td>An Introduction to Blue Carbon for the Coastal Restoration and Management Community: Linking Climate Mitigation and Adaptation With Conservation</td>
<td>National Harbor 11</td>
</tr>
<tr>
<td>9:30 am – 4:30 pm</td>
<td>Field Sessions</td>
<td>Depart from Maryland Bus Loop</td>
</tr>
<tr>
<td>1:00 pm – 5:00 pm</td>
<td>Weaving Your Coastal Network: Environmental Leadership Program Training for Coastal Professionals</td>
<td>National Harbor 9</td>
</tr>
<tr>
<td>1:00 pm – 5:00 pm</td>
<td>Coastal Community Resilience Training</td>
<td>Maryland 1</td>
</tr>
<tr>
<td>1:00 pm – 5:00 pm</td>
<td>Implementing Marine Spatial Planning: Techniques and Strategies for Practitioners</td>
<td>National Harbor 10</td>
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<tr>
<td>3:00 pm – 3:45 pm</td>
<td>Afternoon Yoga</td>
<td>Chesapeake I</td>
</tr>
<tr>
<td>4:30 pm – 6:00 pm</td>
<td>Chesapeake Bay Clean-Up Effort – Are We on Track?</td>
<td>Maryland Ballroom</td>
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<tr>
<td>5:00 pm – 7:30 pm</td>
<td>Registration Open</td>
<td>Expo &amp; Poster Hall Foyer</td>
</tr>
<tr>
<td>6:00 pm – 8:30 pm</td>
<td>Presidents’ Opening Reception and Opening of the Restoration and Management Expo</td>
<td>Expo &amp; Poster Hall</td>
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## Monday, November 3, 2014

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<th>Event</th>
<th>Location</th>
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<tr>
<td>7:00 am – 5:30 pm</td>
<td>Registration Open</td>
<td>Expo &amp; Poster Hall Foyer</td>
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<tr>
<td>7:00 am – 7:45 am</td>
<td>Morning Yoga</td>
<td>Chesapeake I</td>
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<tr>
<td>7:00 am – 8:15 am</td>
<td>Continental Breakfast</td>
<td>Expo &amp; Poster Hall</td>
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<tr>
<td>8:30 am – 10:30 am</td>
<td>Plenary and Mark J. Hershman Keynote Address: “Taken by Storm: America's Impending Resilience Revolution”</td>
<td>Maryland Ballroom</td>
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<tr>
<td>10:30 am – 11:00 am</td>
<td>Morning Coffee Break</td>
<td>Expo &amp; Poster Hall</td>
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<tr>
<td>11:00 am – 12:30 pm</td>
<td>Concurrent Session I</td>
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<tr>
<td>12:30 pm – 2:00 pm</td>
<td>Lunch on your own</td>
<td></td>
</tr>
<tr>
<td>Time</td>
<td>Event</td>
<td>Location</td>
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<td>12:50 pm – 1:50 pm</td>
<td>Brown-Bag Wellness Session: Replenishing Your Energy While Helping the Coasts</td>
<td>Chesapeake I</td>
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<tr>
<td>2:00 pm – 3:30 pm</td>
<td>Concurrent Session II</td>
<td>Expo &amp; Poster Hall</td>
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<tr>
<td>3:30 pm – 4:00 pm</td>
<td>Afternoon Coffee Break</td>
<td>Battelle</td>
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<tr>
<td>3:40 pm – 3:50 pm</td>
<td>Yoga Mini-Break</td>
<td>Chesapeake I</td>
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<tr>
<td>4:00 pm – 5:30 pm</td>
<td>Concurrent Session III</td>
<td>Expo &amp; Poster Hall</td>
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<tr>
<td>5:30 pm – 7:30 pm</td>
<td>Poster Session Happy Hour</td>
<td>Biohabitats</td>
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<td><strong>Tuesday, November 4, 2014</strong></td>
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<tr>
<td>7:00 am – 7:45 am</td>
<td>Morning Yoga</td>
<td>Chesapeake I</td>
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<tr>
<td>7:00 am – 8:15 am</td>
<td>Continental Breakfast</td>
<td>ARCADIS</td>
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<tr>
<td>7:15 am – 8:15 am</td>
<td>The Coastal Society Annual Meeting</td>
<td>Maryland Ballroom</td>
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<td>8:30 am – 10:00 am</td>
<td>Concurrent Session IV</td>
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<td>10:00 am – 10:30 am</td>
<td>Morning Coffee Break</td>
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<tr>
<td>10:30 am – Noon</td>
<td>Concurrent Session V</td>
<td>Exn &amp; Poster Hall</td>
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<tr>
<td>Noon – 2:00 pm</td>
<td>Lunch on your own</td>
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<tr>
<td>12:30 pm – 1:30 pm</td>
<td>Brown-Bag Lunch Session: Latitude 41 – Breaking Barriers to Regional Estuarine Restoration From the Bronx to the Cape</td>
<td>Maryland Ballroom</td>
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<tr>
<td>12:30 pm – 1:45 pm</td>
<td>NOAA Habitat Blueprint Brown-Bag Lunch Discussion: What Are Focus Areas Anyway?</td>
<td>Maryland 5-6</td>
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<td>12:50 pm – 1:50 pm</td>
<td>Brown-Bag Wellness Session: Tapping Into the Stillness of Nature – Change Your Perspective Without Leaving Your Chair</td>
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<td>2:00 pm – 3:30 pm</td>
<td>Concurrent Session VI</td>
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<td>3:30 pm – 4:00 pm</td>
<td>Afternoon Coffee Break</td>
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<td>3:40 pm – 3:50 pm</td>
<td>Yoga Mini-Break</td>
<td>Chesapeake I</td>
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<td>4:00 pm – 5:30 pm</td>
<td>Concurrent Session VII</td>
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<td>6:00 pm – 10:00 pm</td>
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## Summit Schedule

### Wednesday, November 5, 2014

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<tr>
<td>7:00 am – 7:45 am</td>
<td>Morning Yoga</td>
<td>Chesapeake I</td>
</tr>
<tr>
<td></td>
<td>Sponsored by: Happy Spirit Yoga Therapy</td>
<td></td>
</tr>
<tr>
<td>7:00 am – 8:15 am</td>
<td>Continental Breakfast</td>
<td>Expo &amp; Poster Hall</td>
</tr>
<tr>
<td></td>
<td>Sponsored by: ARCADIS</td>
<td></td>
</tr>
<tr>
<td>8:30 am – 10:00 am</td>
<td>Plenary: “The Future of Coastal Resilience - Innovations and Trends”</td>
<td>Maryland Ballroom</td>
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<tr>
<td></td>
<td>Sponsored by:</td>
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<tr>
<td>10:00 am – 10:30 am</td>
<td>Morning Coffee Break</td>
<td>Expo &amp; Poster Hall</td>
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<tr>
<td>10:30 am – Noon</td>
<td>Concurrent Session VIII</td>
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<tr>
<td>Noon – 1:30 pm</td>
<td>Lunch on your own</td>
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<tr>
<td>1:30 pm – 3:00 pm</td>
<td>Concurrent Session IX</td>
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<tr>
<td>3:00 pm – 3:30 pm</td>
<td>Afternoon Coffee Break</td>
<td>Chesapeake Foyer</td>
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<tr>
<td>3:30 pm – 5:00 pm</td>
<td>Concurrent Session X</td>
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<th>Time</th>
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<th>Location</th>
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<tbody>
<tr>
<td>8:00 am – Noon</td>
<td>Coastal Community Resilience Training</td>
<td>National Harbor 12</td>
</tr>
<tr>
<td>8:30 am – 5:00 pm</td>
<td>Improving Restoration Monitoring Design</td>
<td>National Harbor 10</td>
</tr>
<tr>
<td>9:00 am – 12:30 pm</td>
<td>From Discovery to Data Vis: How to Communicate Science on the Web</td>
<td>National Harbor 11</td>
</tr>
<tr>
<td>9:30 am – 5:00 pm</td>
<td>Restoring the Natural Functions of Wetlands: Identifying Common Goals for Advancing Wetland Restoration Success</td>
<td>National Harbor 9</td>
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### 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!
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
2014 Farm Bill
Conservation for You

To learn more, visit:
www.nrcs.usda.gov/farmbill
www.nrcs.ustra.gov/getstarted

Helping People Help the Land.
USDA is an equal opportunity provider and employer.
Facility Map

Gaylord National Convention Center

Level 2

CONCURRENT SESSIONS
National Harbor 9-13

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](http://www2.epa.gov/cre)

• Coastal Wetlands Initiative [http://water.epa.gov/type/wetlands/cwt.cfm](http://water.epa.gov/type/wetlands/cwt.cfm)

• Green Infrastructure for Climate Resiliency [http://water.epa.gov/infrastructure/greeninfrastructure/climate_res.cfm](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
Sponsored by:

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.

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
Sponsored by: Arcadis

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.

Poster Session Happy Hour

Monday, November 3, 5:30 pm – 7:30 pm
Gaylord Convention Center Expo and Poster Hall
Free for Summit Registrants
Sponsored by: Biohabitats

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.
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!

Sustainable Solutions for Coastal Restoration

We’ve got what it takes to deliver—right here, right now.
From initial planning and financing through engineering, design and construction management, ARCADIS offers smart solutions from start to finish.

Together we can do a world of good.

www.arcadis-us.com
Imagine the result
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

Find out more at www.estuaries.org/summit
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-Madanes 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

CDM Smith
cdmsmith.com

WATER + ENVIRONMENT + TRANSPORTATION + ENERGY + FACILITIES
**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!
## Exhibitor List

Listed by Booth Number

<table>
<thead>
<tr>
<th>Booth</th>
<th>Company/Organization</th>
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<tr>
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<td>208</td>
<td>Maryland Department of Natural Resources</td>
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<td>U.S. Department of Agriculture, Natural Resources Conservation Service</td>
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<td>SeaPlan</td>
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<td>404</td>
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<td>U.S. Environmental Protection Agency - Office of Wetlands, Oceans, and Watersheds</td>
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<td>Chesapeake Bay Program</td>
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<td>Ecology and Environment, Inc.</td>
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Expo & Poster Hall
Welcome to the Hub of the Summit!

Restoration and Management Expo

Please join us for the Presidents’ Opening Reception and the Opening of the Restoration and Management Expo on Sunday, 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.

Blue Room: Wave of the Future

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

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

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.
AECOM
Booth # 623
Lead Contact: Steve Mathies
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www.aecom.com

American Littoral Society
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www.littoralsociety.org

Anacostia Watershed Society
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pfalexla@gmail.com

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mmunson@coastalstates.org
www.coastalstates.org

Coastal Wetlands Planning, Protection, and Restoration Act
(CWPPRA)
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bergeron@usgs.gov
www.lacoast.gov/new/About

Coasts, Oceans, Ports, and Rivers Institute
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tchase@asce.org
www.asce.org/copri

Conservation Law Foundation
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robin@earthshare.org
www.earthshare.org
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.

CH2MHILL.com
| National Parks Conservation Association | Lead Contact: Chad Lord  
| Booth # 525  
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| clord@npca.org  
| www.npca.org  |
| National Wildlife Federation | Lead Contact: Adam Kolton  
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| kolton@nwf.org  
| www.nwf.org  |
| Newmark Grubb Knight Frank | Lead Contact: Gregg Brown  
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| www.ngkf.com  |
| North Carolina Coastal Federation | Lead Contact: Todd Miller  
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| www.nccoast.org  |
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| www.estuaries.org  |
| Save The Bay - Narragansett Bay | Lead Contact: Jonathan Stone  
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| www.savebay.org  |
| Save The Bay - San Francisco | Lead Contact: Donna Ball  
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| www.savefbay.org  |
| Save the Sound, a program of Connecticut Fund for the Environment | Lead Contact: Curt Johnson  
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| www.ctenvironment.org/save-the-sound  |
| SeaPlan | Lead Contact: Andy Lipsky  
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| alipsky@seaplan.org  
| www.seaplan.org  |
| Sterling Planet | Lead Contact: Alden Hathaway  
| Booth # 721  
| (540) 207-3142  
| aha@sterlingplanet.com  
| www.sterlingplanet.com  |
Elevating coastal conservation projects with RAE and its partners.

Visit www.lighthawk.org to partner with LightHawk
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<tr>
<th>Exhibitor</th>
<th>Booth Number</th>
<th>Lead Contact</th>
<th>Phone Number</th>
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<tr>
<td>T. Allen Marine</td>
<td>#715</td>
<td>Todd Allen</td>
<td>(410) 804-1495</td>
<td><a href="mailto:tallen08@aol.com">tallen08@aol.com</a></td>
<td><a href="http://www.tallenmarine.com">www.tallenmarine.com</a></td>
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<tr>
<td>Tampa Bay Watch</td>
<td>#616</td>
<td>Peter Clark</td>
<td>(727) 867-8166</td>
<td><a href="mailto:pclark@tampabaywatch.org">pclark@tampabaywatch.org</a></td>
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<td>Taylor &amp; Francis</td>
<td>#311</td>
<td>Amanda Myrkalo</td>
<td>(215) 606-4239</td>
<td><a href="mailto:amanda.myrkalo@taylorandfrancis.com">amanda.myrkalo@taylorandfrancis.com</a></td>
<td><a href="http://www.taylorandfrancis.com">www.taylorandfrancis.com</a></td>
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<td>Taylor Engineering, Inc.</td>
<td>#316</td>
<td>Chris Ellis</td>
<td>(904) 731-7040</td>
<td><a href="mailto:cellis@taylorengineering.com">cellis@taylorengineering.com</a></td>
<td><a href="http://www.taylorengineering.com">www.taylorengineering.com</a></td>
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<td>Tetra Tech</td>
<td>#313</td>
<td>Erin Hague</td>
<td>(561) 218-8559</td>
<td><a href="mailto:greg.coles@pginw.com">greg.coles@pginw.com</a></td>
<td><a href="http://www.polymergroupinc.com">www.polymergroupinc.com</a></td>
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<td>The Nature Conservancy</td>
<td>#720</td>
<td>Boze Hancock</td>
<td>(401) 874-6121</td>
<td><a href="mailto:bhancock@tnc.org">bhancock@tnc.org</a></td>
<td><a href="http://www.nature.org">www.nature.org</a></td>
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<td>Tulane Institute on Water Resources Law and Policy</td>
<td>#318</td>
<td>Mark Davis</td>
<td>(504) 865-5982</td>
<td><a href="mailto:mtdavis@tulane.edu">mtdavis@tulane.edu</a></td>
<td><a href="http://www.law.tulane.edu/enlaw">www.law.tulane.edu/enlaw</a></td>
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<td>Craig Goodwin</td>
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<td>U.S. Environmental Protection Agency - Office of Wetlands, Oceans, and Watersheds</td>
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<tr>
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<tr>
<td>Washington Gas Energy Services</td>
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<td>Waterman Industries</td>
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<td>Woods Hole Group</td>
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We help the world grow the food it needs and promote 4R Nutrient Stewardship to protect precious natural resources.

Over half of the world’s crop yields are attributable to fertilizer. When properly managed, crop nutrients support agriculture’s shared economic, environmental and social goals.

As the world’s largest combined producer of phosphate and potash crop nutrients, The Mosaic Company is committed to the sustainable production and use of our products. We invest in partnerships and promote 4R Nutrient Stewardship—a science-based approach to using the Right fertilizer source, at the Right rate, at the Right time and in the Right place.

nutrientstewardship.com

It’s our responsibility and our nature.

SeaGrass Grow

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.”

Offset your carbon footprint with our innovative Blue Carbon Calculator.

www.seagrassgrow.org
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 Goose (RCG), an introduced non-migratory subspecies of Canada Goose 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**

**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
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

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
- 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
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.

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
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
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!
### Session Details

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<tr>
<td><strong>A Softer Approach: An Introduction to Living Shorelines</strong></td>
<td><strong>A Systems Approach to Geomorphic Engineering</strong></td>
<td><strong>Coastal Zone Management: Empowering Local Communities to Enhance Coastal Resilience</strong></td>
<td><strong>Innovative Tools That Enhance Management and Restoration</strong></td>
<td></td>
<td><strong>Acidifying Our Estuaries – Global Problems, Local Effects</strong></td>
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<td>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.</td>
<td>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.</td>
<td>State coastal programs, local officials, and other key stakeholders around the country 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.</td>
<td>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.</td>
<td></td>
<td>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.</td>
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### A Softer Approach: An Introduction to Living Shorelines

- **Moderator:** Tim Dillingham, American Littoral Society
- **Chair:** Susan Taylor, ART Associates
- **Overview of SAGE:** Margaret Davidson, NOAA
- **Science to Support Coastal Resilience: The Role of Natural Systems**
  - Denise Reed, The Nature Institute of the Gulf
- **Implementing SAGE: Planning, Policies, and Funding**
  - Erik Meyers, The Conservation Fund
- **SAGE Communication Tools**
  - Pamela Mason, Virginia Institute of Marine Science, College of William and Mary
- **Building More Resilient Coastal Communities: Impact of State Coastal Management Programs and Partnerships**
  - Mike Fris, Wisconsin Department of Administration
- **Maryland’s CoastSmart Communities: Helping MD’s Local Communities Plan for SLR, Coastal Hazards, and the Next Sandy Kate Skaggs, MD DNR
- **Building Capacity and Furthering Community Resilience Through Regional Planning, Local Projects, and the Support of the CZM Program**
  - Jennifer Jurado, Broward County Natural Resources Planning and Management Division
- **The HI Ocean Resources Management Program: Integrated Collaboration and Partnerships Across Multiple Jurisdictions**
  - Leo Asuncion, HI CZM Program
- **Coastal Zone Management: A Tool to Advance Gulf of Mexico Restoration and Resilience**
  - Sara Gonzalez-Roth Kronenthal, National Wildlife Federation
- **Threatened Protection: The Status of Coastal Protected Areas on the Atlantic Seaboard**
  - Margaret Walls, Resources for the Future
- **EPA’s New “Being Prepared for Climate Change” Workbook for Creating Risk-Based Adaptation Plans**
  - Michael Craghan, EPA
- **High and Low Marsh Habitat and SAV Mapping, Vulnerability, and Responses to SLR in the Southern Albemarle-Pamlico Sound Estuary System**
  - Margaret Garner, East Carolina University
- **Marsh Analysis and Planning Tool Incorporating Tides and Elevations (MAPTITE): A Geospatial Tool for Estuary Restoration**
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### A Systems Approach to Geomorphic Engineering

- **Moderator:** Dennis Kamber, ARCADIS
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### Coastal Zone Management: Empowering Local Communities to Enhance Coastal Resilience

- **Moderator:** Lindsay Kraatz, Coastal States Organization
- **Building More Resilient Coastal Communities: Impact of State Coastal Management Programs and Partnerships**
  - Mike Fris, Wisconsin Department of Administration
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  - Margaret Walls, Resources for the Future

### Innovative Tools That Enhance Management and Restoration

- **Moderator:** Scott Phillips, USGS
- **Building More Resilient Coastal Communities: Impact of State Coastal Management Programs and Partnerships**
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### Acidifying Our Estuaries – Global Problems, Local Effects

- **Chair:** Denise Breitburg, Smithsonian Environmental Research Center
- **Ocean Acidification Observing Systems: Local to Global**
  - Jan Newton, Applied Physics Laboratory, University of WA
- **Two Sides of the Same Coin: Seasonal Acidification and Hypoxia in U.S. East Coast Estuaries and How It May Impact Organisms**
  - Hannes Baumann, University of CT, Department of Marine Sciences
- **Ocean Acidification Meets the Shoreline: How Will Our Coastal Marshes and Seagrasses Respond?**
  - Tom Arnold, Dickinson College
- **Vulnerability of Estuarine Waters to Acidification Due to Eutrophication and Uptake of Anthropogenic Carbon Dioxide**
  - Wei-Jun Cai, School of Marine Science and Policy, University of DE

### Summit Details

- **Session:** Living Shorelines
- **Location:** National Harbor 10 (NH-10) to 13 (NH-13), Chesapeake AB (CH-AB), and Chesapeake DE (CH-DE)
- **Time:** Monday, November 3, 11:00 AM – 12:30 PM
- **Activities:** Talks, Panel Discussions, Q&A, Networking
- **Speakers:** Various experts in coastal science, policy, and management

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

www.estuaries.org • www.thecoastalsociety.org
### Monday, November 3, 11:00 AM – 12:30 PM

#### Concurrent Session I

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<td><strong>Building Bridges Between Deepwater Horizon Restoration and the Long-Term Health and Resiliency of the Gulf of Mexico</strong></td>
<td><strong>Revitalizing the Great Lakes: How the Great Lakes Community is Collaborating to Protect and Restore the Great Lakes</strong></td>
<td><strong>Shellfish Restoration – What Works...and What’s Been Learned</strong></td>
<td><strong>Large-Scale Projects and Programs: Challenges and Opportunities</strong></td>
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<td>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.</td>
<td>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 multi-scale action. This session will explore how the recovery efforts are being linked with existing restoration, conservation, and resiliency planning efforts to maximize success.</td>
<td>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.</td>
<td>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.</td>
<td>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.</td>
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#### Session Details

- **Chair:** Ariana Sutton-Grier, NOAA
- **Combined Use of Multi-Sensor Remote Sensing for Improved Mapping of Blue Carbon Ecosystems**
  - Fauz Rahman, University of IN
- **New Manual to Provide Standardized Methods for Field Measurements of Blue Carbon**
  - Jennifer Howard, Moore Center for Science and Oceans, Conservation International
- **Remaining Priority Science Gaps to Advance Coastal Blue Carbon**
  - Steve Crooks, ESA PWA
- **Enhancing Blue Carbon Mapping, Science, and Policy in North America**
  - Karen Richardson, Commission for Environmental Cooperation

- **Chair:** Rani Henderson, Galveston Bay Foundation
- **Best Practices of Stewardship in Action: Restoration Education for K-12**
  - 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; newsletters; unique planting sites; monitoring methods; and funding.

- **Chair:** Jordan Diamond, Environmental Law Institute
- **Building Bridges Between Deepwater Horizon Restoration and the Long-Term Health and Resiliency of the Gulf of Mexico**
  - Engaging Coastal Communities in Coastal Restoration and Resiliency
  - Colette Pichon Battle, EPA
  - Linking Disaster-Specific and Existing State and Federal Restoration Processes
  - David Roche, Environmental Law Institute
  - Integrating Deepwater Horizon Restoration Processes With Large-Scale Ecosystem Planning, Monitoring, and Management
  - Mark Davis, Tulane University Law School
  - The Legal Framework for Restoration of the Gulf of Mexico
  - Jordan Diamond, Environmental Law Institute

- **Chair:** Chad Lord, Healing Our Waters-Great Lakes Coalition
- **National and International Coordination of the Great Lakes Restoration Initiative**
  - Cameron Davis, EPA
  - Ensuring Broad Stakeholder Engagement in the Great Lakes Restoration Initiative
  - David Ullrich, Great Lakes and St. Lawrence Cities Initiative
  - Building State and Local Partnerships to Ensure Restoration Success
  - Nelson French, MN Pollution Control Agency
  - Demonstrating the Economic Importance of Great Lakes Restoration Regionally
  - Kathryn Buckner, Council on Great Lakes Industries

- **Moderator:** Tom Bigford, American Fisheries Society
- **Reintroducing the Eastern Oyster into One of the Largest Urban Estuaries in the World**
  - Beth Ravits, Rutgers Center for Environmental Sustainability
  - Protecting and Restoring Australia’s “Great Southern Seascapes”
  - Jason Hancock, TNC

- **Moderator:** Robert Dunau, ARCADIS U.S.
- **Too Big To Fail, Too Big To Succeed**
  - Christopher Dalbom, Tulane Institute on Water Resources Law and Policy
  - Kenai Mountains to Sea – A Landscape-Scale Strategic Habitat Conservation Initiative on the Kenai Peninsula, AK
  - David Wigglesworth, USFWS, and Nathan Walker, Audubon
  - Two Decades of Progress Towards Restoring North San Francisco Bay
  - Renee Spence, Ducks Unlimited

- **Oregon’s Estuary Management System – A Perspective View of More Than 35 Years of Estuary Planning and Management**
  - Patty Snow, OR Coastal Management Program

#### Summit Details

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

**National Harbor 10 (NH-10)**

**Advancing Living Shorelines Implementation:**
- Turning Institutional Barriers into Opportunities
  - 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.

**Coast in the Crosshairs of Climate Change and SLR: Successful Adaptation in a World of Constraints and Tradeoffs**

**Coastal Zone Management: Challenges, and Opportunities**

**Science Supporting the Resiliency and Long Term Sustainability of the Gulf of Mexico**

**Panelists:**
- Margaret Enloe, Chesapeake Bay Program and Alliance for the Chesapeake Bay
- Catherine Krikstan, Chesapeake Bay Program and Alliance for the Chesapeake Bay
- Will Parson, Chesapeake Bay Program and Alliance for the Chesapeake Bay
- Jenna Valente, Chesapeake Bay Program and Chesapeake Research Consortium

**Coastal Zone Act Reauthorization Amendments of 1990 – A Critical Time for Coastal Management**

**Coastal Zone Management: Alive, Dead, or Somewhere in Between?**

**Insights into Coastal Management Needs From NOAA’s Customer Survey**

**Texas Coastal Infrastructure Resiliency Study - Risk Assessment and Project Identification**

**Panelists:**
- Margaret Enloe, Chesapeake Bay Program and Alliance for the Chesapeake Bay
- Catherine Krikstan, Chesapeake Bay Program and Alliance for the Chesapeake Bay
- Will Parson, Chesapeake Bay Program and Alliance for the Chesapeake Bay
- Jenna Valente, Chesapeake Bay Program and Chesapeake Research Consortium

**Chair:**
- Todd Miller, NC Coastal Federation

**Panelists:**
- Bill Cary, Brooks Pierce
- Tim Dillingham, American Littoral Society
- Kevin Dubois, City of Norfolk, VA
- Niki Pace, MS-AL Sea Grant Legal Program
- Tom Ries, Scheda Ecological Associates
- Bill Ross, Brooks Pierce

**Moderator:**
- Tony MacDonald, Urbane Coast Institute at Monmouth University

**Chair:**
- Mary Erickson, NOAA RESTORE Act Science Program

**Panelists:**
- Ben Scagg, Gulf Coast Ecosystem Restoration Council
- Chuck Wilson, Gulf of Mexico Research Initiative
- Kim Waddell, National Academy of Sciences Gulf Research Program
- Jonathan Porthouse, National Fish and Wildlife Federation Gulf Benefit Program

**Chair:**
- Kateryna Wowk, NOAA

**Panelists:**
- Valuing Green Infrastructure – How Far Have We Come and Where Do We Go From Here? Holly Bamford, NOAA
- Federal Perspective: Use of Valuation Information and Implementation of Plans for Nature-Based Features – Challenges and Opportunities
  - Charles Chesnutt, USACE
- City Planner Perspective: Use of Valuation Information and Implementation of Plans for Nature-Based Features – Challenges and Opportunities
  - Alex Washburn, Stevens Institute of Technology
- Coastal Developer Perspective: Use of Valuation Information and Implementation of Plans for Nature-Based Features – Challenges and Opportunities
  - Dev Motwani, Chieftain Holdings, LP

**Chair:**
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**Details:**

**3:30 pm – 4:00 pm**

Afternoon Coffee Break

Sponsored by: Battelle

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www.estuaries.org • www.thecoastalsociety.org
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 marsh and wetland restoration.

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 Pilgeon, Moore Center for Science and Oceans, Conservation International

Ecological Modeling of Channel Deepening Effects on the Lower St. Johns River Estuaries
David Stites, Taylor Engineering, Inc.

After the Blooms: Is Seagrass Recovery in the Indian River Lagoon Recruitment Limited?
M. Dennis Hanisak, FAI 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

Adapting a Coastal Ocean Model to Predict the Movement of an Oil Spill Stck 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
Angélica 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

Green Infrastructure, Eco-Logical, 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

Rebuilding Habitat-Limited Stocks
Galen Tromble, NOAA

From Rebuilding to Resiliency: Strategies for Sustainable Mid-Atlantic Fisheries
Christopher Moore, Mid-Atlantic Fishery Management Council (MAMC)

Achieving Sustainable and Resilient Interstate Fisheries Through Habitat Conservation
Tony Kerns, Atlantic States Marine Fisheries Commission

Managing Chesapeake Bay's Land Use, Fish Habitat, and Fisheries
James Uphoff, MD DNR

Building Habitat-Limited Stocks
Galen Tromble, NOAA

Rebuilding Habitat-Limited Stocks
Galen Tromble, NOAA

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Rebuilding Habitat-Limited Stocks
Galen Tromble, NOAA
The New Coastal Professional: Innovative Career Paths for Inspiring Action (A Mentoring Session Organized by TCS Education Committee)

This session will highlight coastal professionals who have pursued careers outside of government, established non-profit organizations, or academia. It will tell their stories and share their successes and challenges.

Adapting in a Changing World

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.

PERMITTING LIVING SHORELINES – CHALLENGES AND OPPORTUNITIES

This session will address efforts to communicate shorelines – challenges and opportunities for permitting living shorelines. Practitioners from MD, AL, and the USACE will discuss regulatory program permitting living shorelines – USACE requirements for living shorelines. Chris Boyd, School of Law and University of MS-AL Sea Grant, Niki Pace, Permitting Living Shorelines General Consultant from MD DNR Subramanian, Bhaskaran Center Georgetown Climate Center, Jessica Grannis, MD DNR.

WORKING ON THE EDGE:

Community Impact Program: Leveraging Partnerships to Promote Purpose and Engagement

New York Harbor School: Coastal Stewardship Through Public School Students

Community Impact Program: Leveraging Partnerships to Promote Purpose and Engagement

New York Harbor School: Coastal Stewardship Through Public School Students


SUMMIT DETAILS

Chair: Jessica Grannis, Georgetown Climate Center

Panelists:

- Commencement Bay Stewardship Collaborative: How a Community-Based Ecosystem Approach Will Last into Perpetuity (How’s That for Building Resilience?)

- New York Harbor School: Coastal Stewardship Through Public School Students

- Community Impact Program: Leveraging Partnerships to Promote Purpose and Engagement

- Protecting Our Nation’s Investments in Restoration: Making Good on the Promise of Long-Term Stewardship

- John Floberg, NOAA

- Douglas Janiec, Sovereign Consulting

- Eric Weissberger, MD DNR

- Howard Townsend, NOAA

- Howard Townsend, NOAA

- Innovative Permitting Requirements for Living Shorelines – USACE

- Community Participation: Stephanie Westby, NOAA

- Monitoring to Measure Against Success Criteria

- Creating and Implementing the Oyster Restoration Plan for Harris Creek

- Kim Gross, USACE

- Oyster Restoration in Chesapeake Bay – The Whole Package: Setting Metrics, Planning, Implementation, Monitoring, and Measuring Ecosystem Services

- 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.
<table>
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<tr>
<th>Chesapeake GH (CH-GH)</th>
<th>Chesapeake JK (CH-JK)</th>
<th>Maryland 1 (MD-1)</th>
<th>Maryland 2 (MD-2)</th>
<th>Maryland 3 (MD-3)</th>
<th>Maryland 4 (MD-4)</th>
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<td><strong>Coastal Blue Carbon Application in Estuaries</strong>&lt;br&gt;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.</td>
<td><strong>Hurricane Sandy Resilience Projects at NWRs</strong>&lt;br&gt;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.</td>
<td><strong>Problem SolVEd?: Investigating the Spatial Dynamics of Social Values for Ecosystem Services in Coastal Contexts</strong>&lt;br&gt;This session provides an overview of a GIS tool called “Social Values for Ecosystem Services” (SoVSES) 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.</td>
<td><strong>Resilience: What Is It and How Do We Reach It?</strong>&lt;br&gt;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.</td>
<td><strong>Inspiring Action: Engaging Citizens to Catalyze Change</strong>&lt;br&gt;Engaging and motivating people often be the hardest part in any project or program. This session provides examples of successful efforts and tools.</td>
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**CHAIR:** Steve Emmett-Mattox, Restore America’s Estuaries
- Carbon Sequestration Potential of a Young Brackish Marsh Restoration Project Located in Eastern NC<br>Michael Burchell, NC State University
- Snohomish Estuary Blue Carbon Tidal Wetland Assessment<br>Danielle Devier, Environmental Science Associates
- Grouping Estuary Restoration Projects for Carbon Markets - Efficiencies at Scale<br>Ignino Emmer, Silvertstream

**CHAIR:** Susan Adamowicz, USFWS
- Designing Shoreline Protection Projects on Chesapeake Marshlands NWR Refuge Complex<br>Matt Whitteck, USFWS
- Tidal Marsh Restoration Design at Prime Hook NWR in DE<br>Susan Guiteras, USFWS
- Salt Marsh Erosion and Application of Living Shoreline Strategies in Narrow River, RI<br>David Steven Brown, TNC

**“Ignite” rapid-fire talks:**
- Salt Marsh Integrity Assessment Baseline Monitoring Results: 15 NWRs, ME to VA, 2012 - 2014<br>Susan Adamowicz, USFWS
- Tidal Marsh Restoration at Edwin B. Forsythe and Cape May NWR<br>Paul Castelli, USFWS
- Oyster Reef Restoration at Chincoteague NWR in VA<br>Kevin Holcomb, USFWS
- Measuring Tidal Wetland Resilience Across Region Five: Monitoring Protocol for Hurricane Sandy Mitigation Projects<br>Georgia Basso, USFWS

**CHAIR:** Alisa Coffin, Land Systems Research Consultants
- Assessing Social Values in Coastal Ecosystems with SoVSES<br>Benson Sherrouse, USGS
- A Spatial Analysis of Social and Ecological Values of Channel Islands National Park<br>Carena van Riper, University of IL at Urbana-Champaign
- Mash-Up in the Mission-Aransas NERR: Combining Social Science and GIS Methods to Aid Management<br>Jarrod Loerzel, NOAA and JHT
- Stakeholder Perceptions of Resource Condition, Management, Access, and Use in Sarasota Bay, FL: Findings Across Values and Space<br>Chadno Cole, University of NC at Greensboro

**MODERATOR:** Tim Hillier, CDM Smith
- Coastal Barrier Resources System Map Modernization: Supporting Coastal Resilience and Sustainability<br>Katie Niemi, USFWS, and Cynthia Bohn, USFWS
- Resilience: Clarified and Quantified in the USACE<br>Katherine Tourinsky, USACE
- Assessing Beach Nourishment as an Adaptation Approach to Increase Resiliency in Coastal MA<br>Margot Mansfield, MA CZM
- Post-Tropical Cyclone Sandy’s Water Level Frequency Analysis: A Critical Component of the Disaster Recovery Hazard Mitigation Efforts<br>Frannie Bui, CDM Smith

**MODERATOR:** Susan Testroet- Bergeron, USGS
- Saving Point Molate: How Citizen Action Stopped a Casino and Restored a Headland<br>David Helvarg, Blue Frontier Campaign
- Offshore Fracking: How Undisclosed Offshore Fracking Practices Are Inadvertently Reshaping Coastal Zone Regulatory Frameworks<br>Stefanie Sekich-Quinn, Surfrider Foundation
- MyCoast-SouthCarolina–Enhancing Public Awareness of Coastal Hazards Through Citizen Engagement<br>Dan Burger, SC Department of Health and Environmental Control
### Summit Details

**Coastal Change and Ecosystem Services: Towards a Better Understanding of Ecosystem Service Resilience**

**Chair:** Just Cebrian, Dauphin Island Sea Lab

- **Building Disaster Resilience: Lessons From the Gulf Coast**
  - Ashley Ross, Sam Houston State University
- **Putting “System” Back into Ecosystem Services and Connecting the Resilience of Both**
  - David Yoskowitz, Harte Research Institute, TX A&M University - Corpus Christi

**Assessing the Resilience of Ecosystem Services: A Synthetic Framework for Ecological, Economic, and Social Dimensions**

**Chair:** Cristina Carollo, Harte Research Institute, TX A&M University - Corpus Christi

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### Approaches for Environmentally Enhancing Coastal Shorelines and Structures for Improved Sustainability

**Chair:** Burton Suedel, USACE

- **Using Dredged Material Best Practices and Nature to Create River Island Habitat in Coastal LA**
  - Burton Suedel, USACE
- **Building Oyster Reefs and Living Shorelines in Coastal AL**
  - Mary Kate Brown, TNC
- **Cleveland Harbor Green Breakwaters Demonstration Project**
  - Cynthia Banks, USACE
- **Case Studies on the Integration of Oyster Restoration with Coastal Infrastructure**
  - Tyler Ortega, Wayfarer Environmental Technologies

### Conservation, Restoration, and Citizen Engagement Along the Nation’s River – The Potomac

**Chair:** Jonathan Doherty, NPS

- **The Potomac Over Time – History, Degradation, Early Conservation Milestones**
  - Jonathan Doherty, NPS
- **Upstream in the Potomac Watershed**
  - Pedro Belin, Potomac Conservancy
- **The Urban Center of the Potomac**
  - James Foster, Anacostia Watershed Society
- **The Lower Potomac**
  - Kristin Saunders, MD DNR

### The Roles of Conservation and Protected Areas in Coastal and Estuarine Management and Restoration

**Moderator:** Peter Shelley, Conservation Law Foundation

- **Marine Protected Areas as a Restoration Option**
  - Lauren Wenzel, NOAA
- **Natural Protected Areas Under Change and Uncertainty: The Tumbs Mangrove Sanctuary Case**
  - Camila Floroz Bosio, Freiburg University
- **Building a North American Marine Protected Area Network: Trinational Efforts to Enhance and Strengthen Conservation of Biodiversity in Marine Habitats**
  - Itzia Sandoval, Commission for Environmental Cooperation
- **Coastal Land Conservation in MD: Incorporating Climate Change Spatial Data into Land Conservation Policy and Conservation Easements**
  - Kelly Collins, MD DNR

### The Gulf of Mexico: Past, Present, and Future

**Moderator:** Ryan Fikes, National Wildlife Federation (NWF)

  - Buck Sutter, NOAA
- **Integrating Sound Science and Prudent Policy for a Healthy Gulf Coast Post-Deepwater Horizon**
  - David White, NWF
- **RESTORE Act Implementation: NGO Recommendations for Restoration Project and Program Selection**
  - Carey Lynn Perry, Coalition to Restore Coastal Louisiana
- **Restore America’s Gulf of Mexico: Hope for the Future in Lessons From the Past**
  - Richard Charter, The Ocean Foundation

### Communicating Restoration Success Stories to Maintain Support From Public Officials

**Chair:** Jordan Lubetkin, Healing Our Waters-Great Lakes Coalition

- **Restoration Messages That Resonate With Voters**
  - John Russonello, Belden Russonello Strategists
- **Delivering Restoration Success Stories to Public Officials in the Field and in Washington, DC**
  - Gildo Torsi, Ducks Unlimited Great Lakes/Atlantic Region
- **Using Social Media to Amplify Success Story Messages to Targeted Audiences**
  - Anna Brunner, Healing Our Waters-Great Lakes Coalition
Linking Blue Carbon Science to Practice at the Waquoit Bay NERR

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.

Chesapeake GH (CH-GH)

Marsh Restoration: Techniques and Lessons Learned

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 didn’t.

Chesapeake JK (CH-JK)

The Application of Sediment Diversions for a Sustainable Delta

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 CIPRA Coastal Louisiana Master Plan approach to implementation; detailed hydrodynamic and sediment transport modeling; and the associated engineering challenges.

Maryland 1 (MD-1)

Thinking Big: Real-World Examples of the Benefits, Challenges, and Lessons Learned From a Landscape-Scale Approach to Coastal Habitat Conservation

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.

Maryland 2 (MD-2)

Show Me the Money – Innovative Funding Models to Deliver Needed Restoration Outcomes Faster, Cheaper, Better

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.

Maryland 3 (MD-3)

Resilience of Persistent Restored Seagrass Beds: Assessing Long-Term Seagrass Restoration Projects, Their Products, and Their Policies

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?

Maryland 4 (MD-4)

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Chair: Tonna-Marie Rogers, Waquoit Bay NERR

Coastal Blue Carbon as a Restoration Incentive: Using Stakeholder Engagement to Link Science to Community Goals

Tonna-Marie Rogers, Waquoit Bay NERR

Quantifying Salt Marsh Blue Carbon: Research to Enable Calculation of Carbon and CHG Budgets

Jianwu (Jim) Tang, Marine Biological Laboratory

Blue Carbon as a Restoration Incentive: Application in the Herring River Restoration in Wellfleet, MA

Timothy Smith, Cape Cod National Seashore (NPS)

Economic Analysis of Coastal Blue Carbon: A Tool for Advancing Restoration of Coastal Ecosystems

Thomas Walker, Manomet Center for Conservation Sciences

Chair: Donna Ball, Save The Bay, San Francisco

Habitat Restoration of Tidally Influenced Wetlands – What Didn’t Work and Why?

Thomas Ries, Schoda Ecological Associates, Inc.

Comparing Salt Marsh Ecosystem Responses to Different Restoration Techniques

Jim Dubberstein, Lee College

Ecological Re-Engineering of a Fallow Agricultural Dikedland for Tidal Wetland Restoration in a Macro-Tidal System

Tony Bowron, CBWEIS Inc.

Restoring Historically Ditched Salt Marsh in a Mid-Atlantic Estuary: Application to SLR and Coastal Resiliency

Chris Pfeifer, Cordino ENTRIX

Moderator: Dennis Kamber, ARCADIS

Hydrodynamic and Sediment Transport Modeling Using FLOW-3D for Sizing and Optimization of the LCA Medium Diversion at White Ditch

Randy Lagumbay, ARCADIS

Lower Barataria Sediment Diversion Project - Summary of the Feasibility and Design Efforts at the 10% Stage - A Case Study

David Escude, ARCADIS

Development of Models and Tools for Planning for Sediment Diversions in a Systems Context - LA

Joseph LeBlanc, LA CPRA

Large-Scale Sediment Diversions: A Challenging and Essential Restoration Tool for LA

Natalie Peyronnin, Environmental Defense Fund

Chair: Helen Chabot, NOAA

Landscape Conservation Design: Conserving Sustainable Landscapes for Natural Resources and People

Rob Campellone, USFWS

The Cape Fear River Partnership – A Model for Holistic Restoration of Migratory Fish

Dawn York, Cape Fear River Partnership and Dial Cordy and Associates

The Russian River Watershed Habitat Focus Area: A Place-Based, Objective-Directed Effort to Produce Significant Habitat Progress at a Landscape Scale

Natalie Cosentino-Manning, NOAA

Working With Coastal Communities at a Landscape Scale to Achieve Conservation

Kim Hurn, TNC

Moderator: Ted Brown, Biohabitats

Show Me the Money – Innovative Funding Models to Deliver Needed Restoration Outcomes Faster, Cheaper, Better

Ted Brown, Biohabitats

Private Investor/Advisor Model – Small-Scale Delivery to Meet New M45 Requirements With Pay for Performance Conditions

John Campagna, Restore Capital

Private Equity Fund Model – Large-Scale Delivery to Fill the Supply Chain

Nick Dills, Ecosystem Investment Partners

Chair: Anita Thorhaug, Greater Caribbean Energy & Environment Foundation

The British Columbian Estuarine Experience in Canada: Seagrass Restoration Resilience Over Time and Policy for Restoration

Cynthia Durance, Precision Identification

The FL Seagrass Restoration Persistence and Resilience Over 40 years: Changing Policies for Sustaining Seagrasses Ecoservices

Jeffrey Marcus, Stantec

The TX Experience: Seagrass Restoration Resilience and Persistence Over Time and the TX Policies of Sustaining Seagrasses

Charles Belaire, Belaire Environmental, Inc.

The Jamaican Experience: Seagrass Restoration Resilience and Persistence and Jamaican Policies of Sustaining Seagrasses

Barbara Carby, Disaster Risk Reduction Center

Chair: Helen Chabot, NOAA

Landscape Conservation Design: Conserving Sustainable Landscapes for Natural Resources and People

Rob Campellone, USFWS

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Charles Belaire, Belaire Environmental, Inc.

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Chair: Helen Chabot, NOAA

Landscape Conservation Design: Conserving Sustainable Landscapes for Natural Resources and People

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The Cape Fear River Partnership – A Model for Holistic Restoration of Migratory Fish

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The Russian River Watershed Habitat Focus Area: A Place-Based, Objective-Directed Effort to Produce Significant Habitat Progress at a Landscape Scale

Natalie Cosentino-Manning, NOAA

Working With Coastal Communities at a Landscape Scale to Achieve Conservation

Kim Hurn, TNC

Moderator: Ted Brown, Biohabitats

Show Me the Money – Innovative Funding Models to Deliver Needed Restoration Outcomes Faster, Cheaper, Better

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Private Investor/Advisor Model – Small-Scale Delivery to Meet New M45 Requirements With Pay for Performance Conditions

John Campagna, Restore Capital

Private Equity Fund Model – Large-Scale Delivery to Fill the Supply Chain

Nick Dills, Ecosystem Investment Partners

Chair: Anita Thorhaug, Greater Caribbean Energy & Environment Foundation

The British Columbian Estuarine Experience in Canada: Seagrass Restoration Resilience Over Time and Policy for Restoration

Cynthia Durance, Precision Identification

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Barbara Carby, Disaster Risk Reduction Center
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<td>Monitoring and Assessment of Living Shorelines: Key Components in Informing Design and Evaluating Restoration Success Towards Adaptive Management 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.</td>
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**Moderator:** Andrew Bohlander, University of HI Sea Grant College Program

- Incorporating Environmental Flows into Water Planning in TX: Balancing Water for the People and the Ecosystem in Galveston Bay, TX Emily Seldorn, Galveston Bay Foundation
- Examining Natural Infrastructure in the North Atlantic Coast Comprehensive Study Emily Vaxson, USACE
- Natural and Nature-Based Infrastructure Performance in Shoreline Projects in NY and NJ Jon Miller, Stevens Institute of Technology
- Conceptual Nature-Based and Gray Infrastructure for Flood Resiliency at Oakwood Beach, NY After Hurricane Sandy Matt Shultz, Dewberry
- The Effect of Rapidly Changing Hydrology and Sheet Flow on a Marsh Restoration Project Lee Weihart, Wood Hole Group
- Hydrodynamic Modeling of a Tidal Estuary for Marsh Restoration and Optimization Prime Hook NWR, Milton, DE Todd DeMund, Atkins

**Chair:** Donna Marie Bilkovic, VA Institute of Marine Science

- Practical Metrics for Living Shorelines Performance Monitoring on Sheltered Estuary Coasts, Chesapeake Bay Region Karen Duhring, VA Institute of Marine Science
- Monitoring Marsh-Sill Shoreline Stabilization Projects in NC: Results and Recommendations Carolyn Curran, NOAA
- Developing Hypothesis-Driven Monitoring Using Existing Data Joan Drinkwine, Northwest Straits Foundation
- Living Shoreline Project Monitoring in MS and AL Chris Boyd, Troy University

**Moderator:** Paul Wagner, White House Council on Environmental Quality

- Habitat Restoration Approaches to Improve Community and Ecosystem Resiliency Richard Bennett, USFWS
- Examining Natural Infrastructure in the North Atlantic Coast Comprehensive Study Emily Vaxson, USACE
- Natural and Nature-Based Infrastructure Performance in Shoreline Projects in NY and NJ Jon Miller, Stevens Institute of Technology
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**Chair:** Susan Farady, University of New England

- Application of a Suitability Assessment for Coastal Spatial Planning and Management in Korea Jiho Jung, Korea Maritime Institute
- Implementing the National Ocean Policy and Marine Spatial Planning Framework: Funding and Politics Sandra Whitehouse, Ocean Conservancy
- ShoreZone in Alaska, a Tool With Many Applications Cindy Hartmann Moore, NOAA

**Moderator:** Beth McGee, Chesapeake Bay Foundation

- The Big Picture: Status and Opportunities for Agriculture, Forestry, and Other Land Use Projects in the U.S. Carbon Registries Debbie Reed, Coalition on Agricultural Greenhouse Gases
- Carbon Sequestration Benefits of Peatland Restoration at Pocosin Lakes, Great Dismal Swamp, and Alligator River NWR Sara Ward, USFWS
- Evaluating the Potential for Nutrient Management Approaches to Reduce Nitrous Oxide Emissions and Generate Carbon Offsets Beth McGee, Chesapeake Bay Foundation

**Chair:** Kal Stein, EarthShare

- The Clean Water State Revolving Fund: Flexible Funding for Watershed Protection and Restoration Projects Kelly Tucker, EPA
- Promoting Restoration on Public and Private Lands – Just Like Peas and Carrots? Wendy Katagi, CDM Smith
- Evolution of the Gulf of Mexico Ecological Management Sites Program: An Information Exchange to Support Regional Conservation and Restoration Mikell Smith, Gulf of Mexico Foundation
- Comprehensive Planning for Freshwater Wetlands Will Help Direct Compensatory Mitigation Towards Most Impacted Freshwater Wetland Types in Tampa Bay Lindsay Cross, Tampa Bay Estuaries Program

**Moderator:** John A. Sabo, Chesapeake Bay Foundation
Approaches and Tools to Support Watershed-Scale Fish Passage Restoration

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.

The Human Element in Restoration and Management

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.

Successes and Lessons Learned in Community Engagement

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.

Chesapeake Bay Sentinel Site Cooperative: Leveraging Resources to Improve Community Resilience

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.

International Perspectives on Tropical Coastal and Estuarine Restoration and Management

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.

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

**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.
We are proud to support the 7th National Summit on Coastal and Estuarine Restoration

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The Original Restoration Publication
Edited by Steven N. Handel
ISSN: 1543-4060
e-ISSN: 1543-4079
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.

Special Issues:
Education and Outreach in Ecological Restoration, 28 #2
Climate Change and Restoration, 27 #3
Urban Ecological Restoration, 26 #3

Native Plants Journal
Edited by R. Kasten Dumroese
ISSN 1522-8339
e-ISSN 1548-4785
Published 3 times per year

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

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ISSN 0277-2426
e-ISSN 1553-2704
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Landscape Journal offers in-depth exploration of ideas and challenges that are central to contemporary design, planning, and teaching. In publication for more than 25 years, Landscape Journal continues to be a valuable resource for academics and practitioners. The mission of landscape architecture is supported by research and theory in many fields. Besides scholarly features, Landscape Journal also includes editorial columns, creative work, reviews of books, conferences, technology, and exhibitions.

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Living Shorelines: Challenges and Opportunities for NOAA’s Regulatory, Science, and Project Management Roles

NOAA encourages the use of living shoreline 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 shoreline projects.

Lessons Learned From Marine Planning Practitioners: Transferring Knowledge, Building the Network

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.

Strategies for the Future: Restoration, Resiliency, and Improved Management Through the National Ocean Policy

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.

Watershed Restoration Methods and Case Studies

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.

Bridges Over Troubled Water: IOOS and Inundation

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.
### Chesapeake GH (CH-GH)

**Long-Term, Large-Scale Restoration: Big Effort, Big Payoff**

Taking the larger and longer path brings it successes and challenges. This session highlights examples from around the country, including their successes and lessons learned.

### Chesapeake JK (CH-JK)

**Improving Water Quality: What We Want, But How Do We Get There?**

Improving water quality demands a multi-faceted approach. This session showcases program, policy, and techniques that have been successful in making on-the-ground improvements in water quality.

### Maryland 1 (MD-1)

**Planning for Climate Change: Research, Policy, Data, Leadership, and Legal Implications**

This session will explore many different aspects of planning for climate change: on the state level; an Update From the NOAA Coastal Storms Program; and Gap Analysis for Implementation of Hazard Science into the Community.

### Maryland 2 (MD-2)

**Oyster Restoration: Challenges, Opportunities, and Approaches**

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.

### Maryland 3 (MD-3)

**Is My Estuary Feeling Okay? How the NFHP Habitat Assessments Can Inform Decisions on Estuary Habitat – The Big Picture**

Nearly everyone who works in coastal habitat wants to know how their estuarine or coastal conditions are 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 condition and status of our nation’s estuaries.

### Maryland 4 (MD-4)

**Coastal Restoration in the Natural Resource Damage Assessment and Restoration Program**

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.
**Living Shorelines: Approaches and Assessments**

Where can living shorelines be used? How effective are they? What are they worth? These are some of the many questions that will be addressed in this living shorelines session.

**Moderator:**
- Jana Davis, Chesapeake Bay Trust

**Co-Chairs:**
- Kara E. Reeve, Anchor QEA, LLC
- Sara Gonzalez-Rothi Kronenthal, National Wildlife Federation
- Jessica Granini, Georgetown Climate Center and Harrison Institute for Law

**Panelists:**
- Mike Marella, New York City Department of City Planning
- Scott G. Davis, U.S. Department of Housing and Urban Development
- Adam Freed, TNC
- Paul Wagner, White House Council on Environmental Quality

**Other Participants:**
- Natalie Peyronnin, Environmental Defense Fund
- Jordan Fischbach, RAND Corporation
- Challenges and Opportunities for Restoring Nearshore Habitat in Downtown Seattle, WA
- Peter Hummel, Anchor QEA, LLC
- Mitigating Negative Effects of Seawalls and Piers on Juvenile Pacific Salmon Along an Urban Waterfront – Effects of Adding Structure and Light
- Stuart Munsch, University of WA
- Methods and Approaches for Creating Habitat Enhancement in a Highly Urbanized Setting
- Merri Martz, Tera Tech, Inc.
- Cohabitation: Designing a World-Class Urban Space for People, Co-Located With New Habitat for Endangered and Threatened Salmon
- Drew Gangnes, Magnuson Klemencic Associates
- Product Aids Resilience By Identifying Potential Wetlands
- Rebecca Love, The Baldwin Group at NOAA
- Keeping Coastal Communities “Jersey Strong”: Tools for Risk Awareness and Adaptation Planning
- Rick Lathrop, Rutgers University
- Moving Forward With Adaptive Strategies, and Promoting and Building Coastal Resilience
- Zoe Johnson, MD DNR

**New Paradigms in Resource Management to Promote and Build Coastal Resilience**

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.

**Moderator:**
- Bryan Arroyo, USFWS

**Co-Chair:**
- Joe Berg, Biohabitats, Inc.

**Other Participants:**
- Coastal Plain
- Challenges, Current Restoration and Management Efforts, and Lessons Learned
- Janis Markuskis, Anne Arundel County Department of Public Works
- Innovative Strategies and Adaptive Restoration Approaches for Tidal and Non tidal Areas Given Changing Coastal Conditions
- Darcy Turner, Biohabitats, Inc.
- A Perspective on Resource Management
- Fred Kelly, Severn River Association
- Moving Forward With Adaptive Strategies, and Promoting and Building Coastal Resilience
- Zoe Johnson, MD DNR

**Boundaries and Borders: Restoration and Management in Practice**

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.

**Moderator:**
- Bryan Arroyo, USFWS
Making Your Message Work: Communicating and Sharing More Effectively

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.

**MODERATOR:** Chad Nelsen, Surfrider Foundation

- Effective Communication Through Various Information Sources to Influence Attitudes and Behavior
  - Mary Allen, East Carolina University
- Can You Hear Me? Effective Messaging Tips From Findings of a National Research Project
  - K. Diane Hoskins, Restore America’s Estuaries
- Telling Stories of Climate Resilience on the Great American Adaptation Road Trip
  - Kirsten Howard, NH Department of Environmental Services and Allie Goldstein, Ecosystem Marketplaces
- Illusions of Science Delivery: Strategies for Overcoming the Implementation Bottleneck
  - Kasey R. Jacobs, Caribbean Landscape Conservation Cooperative (CLCC)

**MODERATOR:** Lynette Cardoch, HDR

- Emergy Evaluation of the Total Pollution Load Management System in the Asian Bay Area in Korea
  - Daeseok Kang, Pusan National University
- Developing Indicators for a Resilient Tourism Sector Along the Central NC Coast and San Francisco Bay Areas
  - Lou Nadeau, ERG
- Is the View Worth It? Michael Flynn, East Carolina University
- Individual Decision-Making and the Valuation of Varying Shoreline Protection Measures in Mobile Bay, AL
  - Alyson Lewis, East Carolina University

**CHAIR:** Rachel Gregg, EcoAdapt

Is it Doing Any Good? Monitoring and Evaluation of Climate Adaptation Activities

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 discover and discuss ideas to support the evaluation of climate-smart strategies.

**CHAIR:** Arleen O’Donnell, ERG

Coastal Wetland Loss: The Latest Trends and What’s Being Done at National, State, and Watershed Scales

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 ecological condition. Engage in a discussion about what actions can be taken at the national, state, and local levels to reverse these trends.

**CHAIR:** Gary Whelan, MD DNR

A View of Estuarine and Coastal Habitat From the East and West Coasts

Nearly everyone who works in coastal habitat wants to know how their estuary or coast 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.

**CHAIR:** Karen Ansperger-Meyer, Green Fire Productions

PANELISTS:

- Don Chapman, Unca Consulting Services
- Sarah Winter Whelan, American Littoral Society
- Jennifer McCann, RI Sea Grant College Program/Coastal Resources Center

Ocean Frontiers II: A New England Story for Sustaining the Sea

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.
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.

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
“Making the Most of Ecosystem Services”

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.
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.
Living Shorelines in the Southeastern U.S.
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.

Approaches for Building Community Resilience to Coastal Hazards Through Green Infrastructure
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.

Marsh Restoration: Challenges, Opportunities, and Lessons Learned
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.

Chair: Bethney Ward, NOAA
Panelists:
- Mindy Brooks, LA State University AgCenter’s 4-H Youth WeTable Program
- Vicky Carrasco, University of MD Sea Grant Extension
- Lauren Land, LA Sea Grant
- Ed Lewandowski, DE Sea Grant Marine Advisory Service

Moderator: Lee Weisbar, Woods Hole Group
Panelists:
- Coastal Flood Hazards and Green Infrastructure: Lauren Long, The Baldwin Group at NOAA
- Methods to Identify Priority Areas for Green Infrastructure to Reduce Coastal Hazard Risks: Holly Elwell, The Trust for Public Land
- Identifying the Costs and Benefits of Green Infrastructure for Flood Reduction: Patrekka Bannister, City of Toledo Division of Environmental Services
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.
### Exploring Regional Variations in the Use of Living Shorelines

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 collaborate 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.

### Derelict Fishing Gear: Impacts and Solutions

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.

### Developing Municipal Resiliency Through a Regional Marsh Migration Project in ME

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.

### Finding Solutions in the Gulf of Mexico: Projects, Planning, and Partnerships

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.

### What’s It Worth? Economic Value of Habitats, Restoration, and Management

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.

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#### Panelists:

- **Peter Slovinsky**, ME Geological Survey
- **Elizabeth Hertz**, ME Department of Agriculture, Conservation, and Forestry
- **Steve Walker**, ME Coast Heritage Trust
- **Judy Gates**, ME Department of Transportation

#### Chairs:

- **Christopher Clapp**, TNC
- **Joan Drinkwin**, Northwest Straits Foundation
- **Peter Slovinsky**, ME Geological Survey
- **Bill Hanson**, Great Lakes Dredge and Dock

#### Moderators:

- **Jon Miller**, NOAA
- **Joan Drinkwin**, Northwest Straits Foundation
- **Nir Barnea**, NOAA
- **Chad Nelson**, Surfrider Foundation

#### Chairs:

- **Christopher Clapp**, TNC
- **Joan Drinkwin**, Northwest Straits Foundation
- **Peter Slovinsky**, ME Geological Survey
- **Bill Hanson**, Great Lakes Dredge and Dock

#### Chairs:

- **Matt Chasse**, NOAA
- **Christopher Clapp**, TNC
- **Joan Drinkwin**, Northwest Straits Foundation
- **Peter Slovinsky**, ME Geological Survey

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#### Details:

- **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)**

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### National Harbor 10 (NH-10)

- **CHAIR:** Matt Chasse, NOAA
  - **A Continuum of Soft Shoreline Solutions on the Salish Sea**
  - Jim Johanssen, Coastal Geologic Services
- **Living Shorelines in AL and MS**
  - Bill Sapp, Southern Environmental Law Center
- **Chesapeake Bay Living Shorelines**
  - Rob Schnabel, Chesapeake Bay Foundation
- **Hudson River Sustainable Shorelines**
  - Jon Miller, Stevens Institute of Technology

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### National Harbor 11 (NH-11)

- **CHAIR:** Christopher Clapp, TNC
  - **Restoring Coastal Marshes in a Eutrophic World**
  - Linda Deegan, Marine Biological Laboratory Ecosystem Center
- **Scientists, Communities, and Regulatory Authorities Coming Together to Re-Envision What a Resilient Coastal Community Is**
  - Carl LoBue, TNC
- **Resilient Coastal Communities and Valuing Our Natural Assets: Past, Present, and Future**
  - Elizabeth Smith, TNC
- **Reclaiming Our Water: Nitrogen and Resiliency**
  - Sarah Lansdale, Suffolk County

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### National Harbor 12 (NH-12)

- **CHAIR:** Joan Drinkwin, Northwest Straits Foundation
  - **Derelict Fishing Gear in Chesapeake Bay, VA: Spatial Patterns and Implications for Marine Fauna**
  - Donna Bilkovic, VA Institute of Marine Science
- **NOAA Marine Debris Program Efforts to Address Derelict Fishing Gear Along the West Coast**
  - Nir Barnea, NOAA
- **Derelict Gillnets in the Salish Sea: Causes of Loss, Extent of Accumulation, and Development of a Predictive Transboundary Model**
  - Kyle Antonelis, Natural Resources Consultants
- **Fishermen-Led Derelict Crab Gear Recovery on the Northern CA Coast**
  - Jennifer Renullo, UC Davis
- **Reporting, Response, and Retrieval of Newly Lost Fishing Nets in Puget Sound**
  - Joan Drinkwin, Northwest Straits Foundation

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### Chesapeake AB (CH-AB)

- **CHAIR:** Peter Slovinsky, ME Geological Survey
  - **Panelists:**
    - **Peter Slovinsky**, ME Geological Survey
    - **Elizabeth Hertz**, ME Department of Agriculture, Conservation, and Forestry
    - **Steve Walker**, ME Coast Heritage Trust
    - **Judy Gates**, ME Department of Transportation

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### Chesapeake DE (CH-DE)

- **MODERATOR:** Bill Hanson, Great Lakes Dredge and Dock
  - **Flexibility in Design and Payment: The Keys to Success for the West Belle Pass Barrier Headland Project**
  - Gordon Thomson, CB&I
- **So Close Yet So Different: Construction and Design Lessons From Adjacent Barrier Islands**
  - Cecelia Linder, NOAA
- **Plaquemines Parish Programmatic Ridge Restoration Design and Management**
  - Brent Duet, ARCADIS US
- **Community-Based Hydrological Restoration Program: Accomplishments and Lessons Learned From a NOAA Restoration Center and Sea Grant Partnership**
  - Jessica Berrio, NOAA

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### Chesapeake GH (CH-GH)

- **CHAIR:** Chris Darnell, USFWS
  - **The Economic Case for Coastal Ecosystem Restoration: Three Case Studies From the American Recovery and Reinvestment Act of 2009**
  - Shiva Polefka, Center for American Progress
- **The Economic Value of Coastal Erosion Protection in Korea**
  - Jeong-In Chang, Korea Maritime Institute
- **California’s Disappearing Beaches: Mitigating for Energy Infrastructure Value at Risk From Coastal Erosion**
  - Siddhartha Narra, Surfrider Foundation

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3:00 pm – 3:30 pm  
**Afternoon Coffee Break**  
**Chesapeake Foyer**

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www.estuaries.org  •  www.thecoastalsociety.org
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<td><strong>Coastal Planning and Management in a Changing Climate</strong>&lt;br&gt;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.</td>
<td><strong>Reclaiming a River, Conservation, and Community</strong>&lt;br&gt;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.</td>
<td><strong>A Coastal Systems Approach to the USACE Resource Planning and Alternative Funding Mechanisms for Resilient Coastal Infrastructure</strong>&lt;br&gt;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.</td>
<td><strong>Ecosystem Services: Legal Context and Determination of Value</strong>&lt;br&gt;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.</td>
<td><strong>Improving Data and Tools to Evaluate the Connections Between Coastal and Offshore Ecosystems to Support Coastal Resource Management</strong>&lt;br&gt;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.</td>
<td><strong>Shoreline Management and Planning: Tools, Trends, and Techniques</strong>&lt;br&gt;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.</td>
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**MODERATOR:**<br>Matt Nixon, ME Coastal Program
- 10 Million by the Sea: Regional SLR Planning in Los Angeles, CA for Alyssa Newton Mann, USC Sea Grant
- Estuarine Transition Zones of San Francisco Bay: Types and Conservation Strategies Donna Ball, Save The Bay, San Francisco
- Resilience Through a Research-Community Partnership: Stakeholder Engagement in the Mitigation and Adaptation Research Institute (MARII) at Old Dominion University Michelle Cov, Old Dominion University
- Engaging Recreational Users in Ocean Planning Pete Stauffer, Surfrider Foundation

**CHAIR:**<br>Linda Cox, Bronx River Alliance
- Community-Based Conservation in an Urban Setting, Kellie Terry, The Point
- Restoring the Bronx River for an Urban Estuary and Community: Achievements, Challenges, and Next Steps, Marit Larson, Natural Resources Group, New York City Parks Department
- Bronx River Education Through Restoration, Adam Green, Rocking the Boat
- Supporting Regional Partnerships for River Restoration, James Turek, NOAA

**CHAIR:**<br>Bradley Watson, Coastal States Organization
- Addressing the Need for Coastal Systems Planning Charles Chesnutt, USACE
- Regional Approaches to Implementing and Funding Coastal Water Resource Projects, Howard Marlowe, Marlowe and Company
- A State Perspective on Coastal Systems Planning and Implementation Anthony Pratt, DE DNR and Environmental Control
- Creative Financing Mechanisms for a Coastal Systems Approach to Resilient Infrastructure, Michael Carley, Environmental Law Institute

**MODERATOR:**<br>Tim Feather, CDM Smith
- U.S. Coastal Restoration Law and Ecosystem Services Anastasia Teletskesky, University of ID
- Reviving Ecosystem Services While Supporting Communities: What the Social Sciences Can Teach Us About Habitat Restoration, Susan Lovelace, SC Sea Grant Consortium
- 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, University of MD Center for Environmental Science

**CHAIR:**<br>Kirsten Larsen, NOAA
- New Tools Needed by Managers to Link Nearshore Habitat Reduction to Offshore Fisheries Production Koris Schaeffer, NOAA
- Estimating Fisheries Production of the Chesapeake Bay in the Ecosystem Context of a Variable Estuarine Habitat Thomas Ihde, NOAA through Versar, Inc.
- Estimating Biomass and Ecosystem Modelling in Relation to Habitat Availability for North Atlantic Diadromous Forage Fish Species Jillian Hager Osborne, East Carolina University

**MODERATOR:**<br>Bhaskaran Subramanian, MD DNR
- Spatial Integration for Coastal Erosion Management in Korea: Words Into Action Jungho Nam, Korea Maritime Institute
- Non-Rock Alternative to Shoreline Protection Demonstration Project Jamie Bartel, CDM Smith
- The Coasts Ports Rivers (COPRI) Living Shoreline Case Study Database Robert Walker, Anchor QEA
- An Inventory Map and Valuation of Social Uses of RI Estuaries: A Mixed Methods Approach Robert Thompson, University of RI
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<td>An Update on Recent Living Shorelines Projects and Activities in Coastal AL. 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.</td>
<td>Pilot Model for Brook Trout Habitat Prioritization in the Chesapeake Bay Watershed 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.</td>
<td>Examining Resilience in the Shallow Coastal Zone: Effects of Multiple Stressors at the Land-Water Interface on Water Quality, SAV, Wetlands, and Fauna We examined effects of shoreline hardening, watershed land use, water clarity, hyponia, 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.</td>
<td>Citizen-Powered Change: Engaging Communities, Making a Difference 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.</td>
<td>Ocean Acidification: The Response of State and Federal Governments 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.</td>
<td>Oyster Restoration: Techniques, Costs, and Lessons Learned 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.</td>
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Benefits and Challenges of Large-Scale Tidal Wetland Restoration in Central CA

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.

Chair: David Zippin, ICF International

- The Bay Delta Conservation Plan: An Overview of a Large-Scale Wetland Restoration Program
  David Zippin, ICF International

- Ecosystem Benefits of Inter-tidal and Sub-tidal Restoration as Part of the Bay-Delta Conservation Plan
  Carl Wilcox, CA Department of Fish and Wildlife

- Physical and Biological Challenges of Regional-Scale Restoration in the San Francisco Bay-Delta
  Michelle Orr, ESA

- Implementing Large-Scale Tidal Marsh Restoration in a Stressed Ecosystem: How to Overcome the Challenges
  Lenny Grimaldo, ICF International

Chair: Emmanuel Vázquez, Madre Tierra Atabey

  Héctor Nieves, Madre Tierra Atabey

- Profitability of Social Resilience Versus Ecological Resilience in Times of Crisis
  Luis Gonzalez, Madre Tierra Atabey

- Social Resilience Work in the Guayanilla Bay Estuary
  Alexandra Rodriguez, Madre Tierra Atabey

- The Guayanilla Bay Estuary Resilience as a New Model and Protocol
  Emmanuel Vázquez, Madre Tierra Atabey

Chair: Anne Armstrong, Chincoteague Bay Field Station

- Application of Estuarine Evaluation Tools for Everglades Restoration Planning
  Patrick Pitts, USFWS

- Creating a Benchmark for Hypoxia Restoration Using a Neuralt Network Model for Chesapeake Bay
  Andrew Muller, U.S. Naval Academy

- Maryland’s Phosphorus Management Tool as a Case Study of Science Trying to Become Policy
  Doug Myers, Chesapeake Bay Foundation

- From Headwaters to Coast: Influence of Human Activities on Water Quality of the Potomac River Estuary
  Suzanne Bricker, NOAA

Chair: Michael Flynn, East Carolina University

- Rooting Environmental Resiliency: Connecting Local Youth to Conservation to Create the Next Generation of Environmental Stewards
  Laura Herrin, Student Conservation Association

- Chincoteague Bay Ecosystem Ecology: Establishing Baseline Diversity Surveys in Franklin City Salt Marsh and Monitoring Oyster Recruitment and Recovery
  James Hunt, East Stroudsburg University

- Stratigraphic Record from Mainland Side of Chincoteague Bay: Understanding Sedimentation and Patterns of Environmental Change in Franklin City Marsh
  Adrienne Oakley, Kutztown University

- Understanding Human Impacts in the Franklin City Marsh: Thermal Pollution, Biological Invasions, and Changes in Groundwater Systems
  Megan Kelso, Kutztown University

Chair: Keeley O’Connell, EarthCorps

- Narragansett Bay From the Air: Save The Bay’s Flights with LightHawk
  Jonathan Stone, Save The Bay, and Jonathan Milne, LightHawk.org

- Restoring Barrier Island Sand Dunes, Coastal Prairie, and Tidally-Influenced Wetlands Along the TX Coast Through Educational Outreach Programs
  Karla Klay, Artist Boat

- Restoration Alone Isn’t the Answer: Protecting and Maintaining Healthy Watersheds Through Local Engagement
  Tuana Phillips, Chesapeake Research Consortium

- Smith Creek Watershed Partnership - A National Showcase
  Libby Norris, Chesapeake Bay Foundation
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

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
4. Facilitated Discussion
5. Agreement on Future Collaborations and Actions
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.

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.
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

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Elizabeth Bevan, NOAA
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

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

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Phoebe Crisman, University of VA

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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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Poster Presentations

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

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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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

Victoria Ramenzoni, NOAA

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Jongseong Ryu, Anyang University

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Judd Schechtman, Rutgers University

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Patty Snow, OR Coastal Management Program

Kate Spear, USGS

PP26. A Climate Change Adaptation Plan in Response to SLR for the Chitimacha Tribe of LA
Kate Spear, USGS

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Chris Swenson, USFWS

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Jody Thompson, AUMERC/MASGC

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Pamela Fetterman, ecoGENESIS LLC

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Luis Villanueva-Cubero, University of PR Rio Piedras Campus

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Michelle Canick, TNC

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Leslie Gerlich, USFWS

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Elizabeth Felter, American Planning Association and Coastal States Organization

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Benjamin Ganon, SCA/NYSDEC

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Lisa Graichen, Hudson River NERR and University of NH

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J. Luke Bourwell, LA State University, LSU AgCenter

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Jason Shackelford, SWCA Environmental Consultants

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Gregory Barranco, EPA

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Kaitlyn Cox, Roger Williams University School of Law/University of RI
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   April Turner, S.C. Sea Grant Consortium

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   Brian Fulfrost, Brian Fulfrost and Associates

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   Alexis Blue, Coastal Geologic Services

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   Alexis Blue, Coastal Geologic Services

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   Shaun Howard, TNC

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   Maribeth Chassey, Sacred Heart University

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   Lindsay Cross, Tampa Bay Estuary Program
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Stephen Durham, Cornell University

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Cindy Hartmann Moore, NOAA

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Daniel Kielbania, Sacred Heart University

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Jaclyn Lange, Sacred Heart University

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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

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Anthony Brake, Golden Gate Raptor Observatory

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Peter McGowan, USFWS

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Jonathan Milne, Lighthawk.org

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Sandra Scoggin, San Francisco Bay Joint Venture

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Catherine Anna Toline, NPS

William Douglas Wilson, Caribbean Wind, LLC

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Jenny Davis, CSS/NOAA

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Robert Kyle Derby, University of MD, College Park

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Audra Hinson, Dept. of Ecosystem Science and Management, TX A&M University

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Christine Hodgson, North Island College

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Matthew Jennette, DE DNR and Environmental Control (DNREC)

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Jim Johannessen, Coastal Geologic Services

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Judith Weis, Rutgers University
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Abu Hena Mustafa Kamal, Universiti Putra Malaysia Bintulu Sarawak Campus

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Stefan Bourgoin, Atkins

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A

Abel, C. · Tues. 4:00 pm (CH-DE)
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Aikens, C. · Tues. 10:30 am (CH-GH)
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Armstrong, J. · STP30
Arnold, T. · Mon. 11:00 am (CH-DE)
Arroyo, B. · Tues. 4:00 pm (CH-DE)
Asuncion, L. · Mon. 11:00 am (NH-12)
Auermuller, L. · Wed. 10:30 am (NH-12)

B

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Bamford, H. · Mon. 2:00 pm (CH-DE)
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Barnea, N. · Wed. 1:30 pm (NH-12)
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Bennett, R. · Tues. 10:30 am (NH-11)
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Carby, B. · Tues. 8:30 am (MD-4)
Cardoch, L. · Tues. 4:00 pm (CH-JK)
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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)
Schechman, 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
Shead, 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)

A MILLION FISHERMEN CAN’T BE WRONG

The American Sportfishing Association is working for you! Through KeepAmericaFishing, our grassroots advocacy program that works to ensure clean, accessible waters and sustainable fisheries, our influential Government Affairs team is on the front lines protecting your right to fish. We provide the most effective online tool where you can learn about legislative concerns and take action.

Join Us
Visit KeepAmericaFishing.org to learn about the issues and take action today.
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
Spearr, K. - PP25, PP26
Spenst, 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)
Sullier, 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

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
Telesetksky, 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)
GENERATING NEW ENERGY FROM OLD GEAR

Fishing for Energy launched in 2008 through a partnership of Covanta, the National Fish and Wildlife Foundation (NFWF), the National Oceanic and Atmospheric Administration (NOAA) and Schnitzer Steel Industries, Inc. with the goal of providing a no-cost solution for fishermen to dispose of old, derelict or unusable fishing gear in and around coastal waterways. The program continues to work closely with state and local agencies, community and fishermen groups, and local ports to install bins at convenient and strategic locations where fishermen can easily dispose of gear. To date, more than 2.5 million pounds of gear has been collected.

For more information or to bring Fishing for Energy to a port near you, contact the National Fish and Wildlife Foundation at 202-857-0166

www.nfwf.org/fishingforenergy
ICF has been designing and implementing ecosystem restoration projects for more than 20 years. We are currently working with our clients to restore and enhance estuary habitats throughout the United States.

Our full range of restoration services includes:
- Biological and hydrologic assessments
- Site analysis and feasibility assessments
- CEQA/NEPA and regulatory compliance
- Engineering plans, specifications, and cost estimating
- Construction oversight
- Performance monitoring and reporting

Call us to find out how ICF can help make your restoration goals a reality!

Leo Lentsch, +1.843.693.8264
icfi.com | PASSION. EXPERTISE. RESULTS.
Let our Outsourced CIO program take the burden off your staff so they can concentrate on what really matters: your mission. Northern Trust’s Foundation & Institutional Advisors is a dedicated practice working with a wide variety of nonprofit organizations. Our experts offer a range of customized investment solutions as well as perspectives on donor trends, attitudes and behaviors. To learn more or to schedule a meeting, call Michael R. Marsh at 202-303-1722 or mrm12@ntrs.com or visit northerntrust.com/FIA.
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<thead>
<tr>
<th>Name</th>
<th>Date/Time</th>
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<tr>
<td>Werick, B.</td>
<td>Tues. 2:00 pm (CH-DE)</td>
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<td>Westby, S.</td>
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<td>Whelan, G.</td>
<td>Tues. 2:00 pm (MD-3), Tues. 4:00 pm (MD-3)</td>
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<td>Whigham, D.</td>
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<td>Whitlock, J.</td>
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<td>Wigglesworth, D.</td>
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<td>Wilcox, C.</td>
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<td>Wilkins, S.</td>
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<td>Willey, K.</td>
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<td>Willis, Z.</td>
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<td>Wilson, W.D.</td>
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<td>Windham-Myers, L.</td>
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<td>Winter Whelan, S.</td>
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<td>Wollenberg, J.</td>
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<td>Wowk, K.</td>
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<td>Xia, M.</td>
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<td>Yepsen, M.</td>
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<td>York, D.</td>
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<td>Yoskowitz, D.</td>
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<td>Yu, M.</td>
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<td>Zemel, H.</td>
<td>Wed. 3:30 pm (CH-AB), STP73</td>
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<td>Zippin, D.</td>
<td>Wed. 3:30 pm (CH-JK)</td>
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Introducing The Journal of Ocean & Coastal Economics

The Journal of Ocean & Coastal Economics is a new peer-reviewed online journal whose mission is to publish the best of recent research on the values of ocean and coastal resources and on the contribution of these resources to local, regional, and national economies. JOCE publishes papers of interest to both scholars and practitioners in the fields of resource and environmental economics, regional and national income economics and of use to coastal and ocean resource managers.

JOCE seeks papers that address innovations in economic theory and practice as applied to ocean and coastal resources and region, that examine the links between economic information and policy, and that report on recent findings of applied economic research of broad interest.

All papers are peer reviewed, and the Journal makes decisions on publishability within one month of submission. Papers are available in the online Journal within two weeks of final manuscript acceptance. Electronic publishing also allows authors to make supplementary material available to readers that is normally not available. There are no fees to publish papers or to access the Journal.

To submit a paper, go to http://cbe.miis.edu/joce/. For more information, contact the editor-in-chief, Dr. Charles S. Colgan at ccolgan@miis.edu.
Thank You

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!

Program Co-Leads

Julia Wyman,
Marine Affairs Institute at Roger Williams University School of Law/RI Sea Grant Legal Program; and The Coastal Society

Suzanne Giles Simon,
Restore America's Estuaries

National Program Committee

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Bryan Arroyo, USFWS
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Jana Davis, Chesapeake Bay Trust
Debbie DeVore, USFWS
Tim Dillingham, American Littoral Society
Terry Doss, Biohabitats
Raed El-Farhan, The Louis Berger Group, Inc.
Margaret Enloe, Alliance for the Chesapeake Bay
Tim Feather, CDM Smith
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Ryan Fikes, National Wildlife Federation
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Michael Flynn, Eastern Carolina University
Nina Garfield, NOAA
Matt Gerhart, California Coastal Conservancy
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Ellen Gordon, The Coastal Society
Holly Greening, Tampa Bay Estuary Program
Erin Hague, Tétra Tech, Inc.
Serra Herndon, Tampa Bay Watch
Bill Hinsley, ARCADIS U.S., Inc.
Diane Hoskins, Restore America's Estuaries
Marthan Jacob, Marshall Islands Marine Resources and Authority
Mark Jaworski, CH2M HILL
Dennis Kamber, ARCADIS U.S., Inc.
Peter Kingsley-Smith, SC DNR
Kory Kreiseder, Rain Underground, LLC
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Gwen MacDonald, Save the Sound – a program of CT Fund for the Environment
Steven MacLeod, Ecology and Environment, Inc.
Kris May, AECOM
Jeff McCreary, Ducks Unlimited
Greg Meyer, University of NC, Wilmington
Mary Munson, Coastal States Organization
Brian Needelman, University of MD
Lisa Noble, America's Wetland
Keeley O'Connell, EarthCorps
Katie O'Meara, MD Institute College of Art
Kameran Onley, The Nature Conservancy
Michelle Orr, PWA ESA
Steve Petron, CH2M HILL
Tom Ries, Scheda Ecological Associates
Bill Shadel, Interstate Environmental Commission
Susannah Sheldon, SC Sea Grant
Peter Shelley, Conservation Law Foundation
Charles “Si” Simenstad, University of WA
Mike Slattery, USFWS
Courtney Smith, Galveston Bay Foundation
Mike Smith, Gulf of Mexico Foundation
Ida Stinson, KBR
Bhaskar Subramanian, MD DNR
Rich Takacs, NOAA
Lexia Weaver, North Carolina Coastal Federation
Lee Weishar, Woods Hole Group
Stephanie Westby, NOAA
Christine Woodward, Samish Indian Nation
David Yoskowitz, Harte Research Institute
Thank You

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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Tony MacDonald, Urban Coast Institute at Monmouth University
Chad Nelsen, Surfrider Foundation
Matt Nixon, ME Coastal Program, ME Department AGC
Susannah Sheldon, SC Sea Grant Consortium
Brian Smith, NC State University

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

Jeff Benoit, President and CEO
Kimberly Burke, Business Manager
Elsa Carlisle-Schwartz, Senior Director of Restoration and Administration
Steve Emmett-Mattox, Senior Director of Strategic Planning and Programs

Diane Hoskins, Director of Government Relations
Harvey Potts, Senior Director of Development and Marketing
Suzanne Giles Simon, Strategic Programs Manager
Stefanie Simpson, Blue Carbon Coordinator
Lance Speidell, Director of Foundation and Corporate Giving
Restore America’s Estuaries is dedicated to the protection and restoration of bays and estuaries as essential resources for our nation.

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Chesapeake Bay Foundation
Coalition to Restore Coastal Louisiana

Conservation Law Foundation
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North Carolina Coastal Federation
Save the Sound – Narragansett Bay

Save The Bay – San Francisco
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