

## MONDAY, FEBRUARY 5

### Noon to 5:30 p.m.

Mezzanine

#### FORUM CHECK-IN

### Noon to 5:30 p.m.

Drayton

#### SPEAKER READY ROOM

### 1:00 to 5:00 p.m.

Calhoun

#### **TRAINING: Gaining Insight through Participating: Heightening your Observational Skills**

Dr. Amelia Moore, University of Rhode Island

You must be pre-registered to attend this training. There is a cost to attend.

### 1:00 to 5:00 p.m.

Carolina B

#### **TRAINING: A Storied Response: Becoming a Storyteller**

Ms. Elise DeRosa, ED Executive Coaching

You must be pre-registered to attend this training. There is a cost to attend.

### 2:00 to 5:00 p.m.

Carolina A

#### **TRAINING: Focus of Focus Groups**

Dr. Chris Ellis, NOAA Office for Coastal Management

You must be pre-registered to attend this training. There is no cost to attend.

### 5:30 to 6:30 p.m.

Calhoun

#### **SPECIAL SESSION: Rising to the Challenge Together: Key Finding for Coastal Managers from an Assessment of the State of the U.S. Adaptation Field**

Dr. Susanne Moser, Susanne Moser Research and Consulting and Stanford University

*Dr. Moser will offer a summary of a Kresge-Foundation-commissioned assessment of the state of the U.S. adaptation field during this special session. The assessment highlights accomplishments, capacities, needs, and opportunities of U.S. adaptation through the lens of an emergent professional field. The presentation will emphasize findings relevant to coastal managers, and focus in particular on equity and transformative adaptation to stimulate discussion of how to advance coastal adaptation far more rapidly than is currently the case: with urgency, justice and boldness. Dr. Moser will be available for questions and answers immediately following the presentation and throughout the week.*

**TUESDAY, FEBRUARY 6**

**7:30 a.m. to 5:30 p.m.**

Mezzanine

**FORUM CHECK-IN**

**7:30 a.m. to 5:30 p.m.**

Drayton

**SPEAKER READY ROOM**

**8:00 to 8:30 a.m.**

Mezzanine outside Carolina A

**COFFEE**

**8:30 to 10:00 a.m.**

Colonial

**OPENING PLENARY: BELOW SEA LEVEL: NEW ORLEANS AS AN URBAN SOCIAL COAST, 1718-2018**

**Moderator and NERRA Welcome:** Rebecca Roth, Executive Director of the National Estuarine Research Reserve Association

**NOAA Welcome:**

Dr. Russell Callender, Assistant Administrator for Ocean Services and Coastal Zone Management, NOAA National Ocean Service

**Keynote Address:**

Dr. Richard Campanella, School of Architecture, Tulane University

*This plenary presentation will recount how, starting exactly 300 years ago, a French colonial attempt to urbanize a fluvial delta later produced the largest city in the South and a vital port for a growing nation—even as parallel efforts to control the Mississippi and drain the swamps ended up deteriorating the delta and sinking New Orleans below sea level. What came from these and other decisions has been both triumphant and tragic, and makes for a future of uncertainty—and hope.*

**10:00 to 10:30 a.m.**

Mezzanine outside Carolina A

**BREAK**

**10:30 a.m. to Noon**

Carolina A

**ORAL PRESENTATIONS: Coastal Recreation and Tourism**

COMMUNITY-DRIVEN VISION FOR WILLIAM POWERS STATE PARK  
Suellen Burns, Illinois Department of Natural Resources

IMPROVING PUBLIC ACCESS TO WATERWAYS IN HAMPTON ROADS, VIRGINIA

Benjamin McFarlane, Ashley Gordon, and Sara Kidd, Hampton Roads Planning District Commission

SHIFTING TOURISM DEMAND FOLLOWING STORM-RELATED IMPACTS IN COASTAL DESTINATIONS; RESULTS FROM A CHOICE EXPERIMENT WITH OUTER BANKS VISITORS

Erin Seekamp and Matthew Jurjonas, North Carolina State University

PUBLIC PERCEPTION TOWARD MARINE FARMED SEAFOOD AND ITS POTENTIAL AS A COASTAL TOURISM PRODUCT

Gyunghoon Kim, Laura Jodice, Lauren Duffy, and William Norman, Clemson University

### **10:30 a.m. to Noon**

Carolina B

#### **SHORT AND SWEET PRESENTATIONS: Stakeholder Engagement Strategies for Risk Reduction**

GEORGIA VISITOR'S CENTERS' EVACUATION EXPERIENCE INFORMS HURRICANE HAZARD MESSAGING

Madeleine Russell, University of Georgia Marine Extension and Georgia Sea Grant; Cheryl Hargrove, Georgia Department of Economic Development; Katy Austin Smith, University of Georgia Marine Extension and Georgia Sea Grant

ARE SMALL COASTAL BUSINESSES THINKING ABOUT DISASTER PREPAREDNESS?

Anne Cox, Wells National Estuarine Research Reserve

UNPACKING THE POLITICS AND PERSPECTIVES OF SEASIDE LIVING

Tom FitzGerald, University of Sydney

BUILDING COASTAL RESILIENCE: USING PARTNERSHIPS TO ADDRESS AND COMMUNICATE THE COASTAL HAZARD RISKS AND POTENTIAL NATURAL SOLUTIONS IN A COASTAL GEORGIA COMMUNITY

Ashby Worley, The Nature Conservancy

COMMUNITY RESILIENCE INDEX LEADS TO FLASH FLOOD RESPONSE PLAN

Melissa Daigle, Louisiana Sea Grant

INTEGRATING SMALL TOWN VALUES IN BIG RESILIENCY PLANNING WITH A DELAWARE MUNICIPALITY

Kelly Valencik, Delaware National Estuarine Research Reserve; Danielle Swallow, Delaware Coastal Program

AVOIDING THE HORSE COLLAR: FOLLOWING UP ON THE 2016 "TACKLE THE ISSUE" ON ADAPTING NORTH CAROLINA'S OUTER BANKS

Jessica Whitehead, North Carolina Sea Grant; Lisa Schiavinato, California Sea Grant; Holly White, Town of Nags Head, North Carolina

### **10:30 a.m. to Noon**

Calhoun

#### **TACKLE-THE-ISSUE FACILITATED DISCUSSION: Uniquely Rural: Building Capacity for Resilience and Risk Reduction in Rural Coastal Communities**

Brian Ambrette, Eastern Shore Land Conservancy

*Rural coastal communities face many challenges in addressing their evolving flood risks. In this session, participants will discuss how they have or might augment existing local capacity and capabilities to reduce coastal hazard risks and identify ways to create new capacity in a community or regionally. Are there uniquely rural perceptions about committing scarce financial, human, and political resources to improving preparedness and resilience? How might these distinct perceptions be shifted to create opportunities and new capacity for risk reduction? What strategies from urban areas, examples of regional collaboration, or innovations could be adapted or applied to rural communities? What peer-to-peer networks of rural areas exist or could be created to improve the diffusion of effective strategies for rural coastal risk reduction?*

### **10:30 to 11:10 a.m.**

Colonial

#### **ON-THE-SPOT SKILL BUILDING: Fun and Engaging Ways for Opening and Closing Meetings**

Vankita Brown, NOAA National Weather Service; Tricia Ryan, NOAA Office for Coastal Management

*In this interactive session, learn three different techniques to jump start, energize, and successfully end meetings. Geek out with others and share your favorite techniques for powerful and effective meetings and workshops.*

### **11:20 a.m. to Noon**

Colonial

#### **ON-THE-SPOT SKILL BUILDING: Build It and They will Come? Using Website Statistics to Assess User Behaviors and Preferences**

Hansje Gold-Krueck and Kyle Draganov, The Baldwin Group at NOAA Office for Coastal Management

*Outreach and communication efforts are increasingly moving from paper to online delivery, and website statistics represent a powerful tool for analyzing what attracts and interests the viewing audience. In this session, learn about specialized tools such as segments, tags, campaigns, and alerts that allow a greater power of analysis and many more potential applications. Create a special report about website visitors coming from social media to see if their behaviors differ from visitors who arrive by other means. Use data analysis tools to gauge whether the delivery of a presentation or poster at a major conference, or a newspaper article or blog entry, drove increased traffic to the site.*

### **Noon to 2:00 p.m.**

#### **ON YOUR OWN FOR LUNCH**

*See the registration desk for a listing of nearby restaurants.*

**2:00 to 3:30 p.m.**

Carolina A

**SHORT AND SWEET PRESENTATIONS: Recreational Use and Impact**

STAKEHOLDER PARTICIPATION IN COASTAL RESOURCE MANAGEMENT: RECREATIONAL USE MAPPING IN COASTAL GEORGIA

Robert Crimian, The Nature Conservancy

VALUING COASTAL BEACHES AND BEACH CLOSURES WITH AN APPLICATION TO BARNSTABLE, MASSACHUSETTS

Sarina Lyon, Nate Merrill, Kate Mulvaney, and Marisa Mazzotta, U.S. Environmental Protection Agency

DIGITALLY ENHANCING PUBLIC ACCESS TO WISCONSIN'S GREAT LAKES: HOW A MAP WILL MAKE YOU WANT TO SCUBA DIVE

Joe Dwyer, Wisconsin Coastal Management Program

FISHING FOR BIG DATA: CREATING A RECREATIONAL ANGLER DATABASE FOR GREAT LAKES NATURAL RESOURCE AGENCIES

Erin Burkett, Michigan Technological University

ATTITUDES AND KNOWLEDGE OF OCEAN ISSUES AMONG OREGON COAST VISITORS

Tommy Swearingen, Oregon Department of Fish and Wildlife; Haley Epperly, University of Florida

USING CALL DATA RECORDS FOR MODELING COASTAL RECREATION BEHAVIOR

Nathanial Merrill, Kate Mulvaney, Sarina Lyon, and Marisa Mazzotta, U.S. Environmental Protection Agency

EVALUATING THE LONG-TERM IMPACT OF DELIBERATIVE DIALOGUE ON COMMUNITY ADAPTATION

Kirstin Dow, University of South Carolina; Seth Tyler and Tom Webler, Worcester Polytechnic Institute; Jess Whitehead, North Carolina Sea Grant

**2:00 to 3:30 p.m.**

Carolina B

**ORAL PRESENTATIONS: Planning for Resilient Communities**

NOAA, HUD AND PARTNERS: BUILDING COMMUNITY RESILIENCE THROUGH INTEGRATED RISK MODELING  
Mike Robinson and Liz Schneider, AECOM-Raleigh; Joshua Murphy, NOAA Office for Coastal Management

REVEALING THE RESISTANCE TO RESILIENCE: DOCUMENTING CHRONIC AND ACUTE INFLUENCES, EXPERIENCES, AND DYNAMICS IN ACTIVATING LOCAL POLICY NETWORKS FOR CHANGE IN RHODE ISLAND

Dawn Kotowicz and Donald Robadue, University of Rhode Island

NORTH COAST (HORRY AND GEORGETOWN COUNTIES, SOUTH CAROLINA) RESILIENCE PROJECT  
Joy Brown, The Nature Conservancy; Keil Schmid, Geoscience Consultants, LLC

RESILIENCE PLANNING FOR WATER-DEPENDENT USES  
Matthew Campo, The State University of New Jersey

**2:00 to 3:30 p.m.**

Calhoun

**TOOL DEMONSTRATION AND JOB AID ROUNDTABLE**

EVALUATE YOUR EDUCATION/OUTREACH PROGRAM FOR BEHAVIOR CHANGE OBJECTIVES

Jennifer Dindinger and Amanda Rockler, University of Maryland Sea Grant Extension;  
Kacey Wetzel, Chesapeake Bay Trust

*Use the Outreach Program Audit Tool to evaluate your outreach and education program and to identify opportunities to increase or improve your behavior change objectives.*

USE OF ONLINE GIS TO FACILITATE INTEGRATED PUBLIC HEALTH, INFRASTRUCTURE, AND COASTAL HAZARD  
FLOOD RISK ASSESSMENT

Thomas Allen, Old Dominion University; Thomas Crawford, Virginia Tech; Burrell Montz,  
East Carolina University; Susan Lovelace, South Carolina Sea Grant; Jessica Whitehead,  
North Carolina Sea Grant; Armon Hanks and Ariel Christensen, South Carolina Sea Grant;  
Greg Kearney, East Carolina University

*Become familiar with a participatory application of GIS that links geospatial risk maps with collaborative risk assessment tools to integrate human health and coastal flood risk assessment.*

INTERACTIVE VISIONING FOR THE FUTURE: THINKING ABOUT CHANGE IN THE CONTEXT OF VULNERABILITIES  
AND OPPORTUNITIES

Danielle Boudreau, Tijuana River National Estuarine Research Reserve; Syverine  
Abrahamson, Kachemak Bay National Estuarine Research Reserve

*Be introduced to interactive visioning tools and job aids developed through collaborative partnerships to engage community members around local vulnerabilities resulting from coastal flooding and hazards.*

SHOW AND TELL: ANNAPOLIS USES STORY MAP TO ILLUMINATE FLOOD RISKS

Bradley Dean, Michael Baker International; Lisa Craig and Shawn Wampler, City of  
Annapolis

*Scroll through this Esri story map tool developed for the city of Annapolis to see how it is being used to engage and update the community on the role residents can play in preparing their properties for extreme flooding events and sea level rise.*

THE DOCTOR IS IN: RISK COMMUNICATION HELP. 5¢

Stephanie Fauver, NOAA Office for Coastal Management; Tashya Allen, The Baldwin Group at NOAA Office for Coastal Management; Sarah Watson, South Carolina Sea Grant

*Grab a Risk Communication Basics guidebook for insight into how and why people respond to risk the way they do, snag the Seven Best Practices quick reference for tips on how to apply risk communication research to improve communication, and work through the Risk Communication Strategy template to narrow and target your risk communication project for improved effectiveness.*

A MIXED METHODS APPROACH FOR INDEXING COASTAL PUBLIC HEALTH SUSCEPTIBILITY TO VULNERABLE WATER INFRASTRUCTURE

Armon Hanks and Susan Lovelace, South Carolina Sea Grant; Ariel Christensen, Medical University of South Carolina; Thomas Allen, Old Dominion University; Thomas Crawford, Virginia Tech; Burrell Montz, East Carolina University; Jessica Whitehead, North Carolina Sea Grant; Greg Kearney, East Carolina University; Elizabeth Fly, The Nature Conservancy

*Learn about a mixed-methods approach that combines an in-house GIS-based vulnerability assessment with a coastal resilience matrix utilizing analytical hierarchy process for indexing coastal public health susceptibility to vulnerable water infrastructure.*

## 2:00 to 3:30 p.m.

Gold

### **ORAL PRESENTATIONS: Collecting Environmental Data for Ecosystem Services**

PLANNING TOOLS FOR USING AN ECOSYSTEM SERVICES APPROACH TO COASTAL MANAGEMENT

Peter Wiley, NOAA Office for Coastal Management; Lou Nadeau, Eastern Research Group; Kirsten Howard, New Hampshire Department of Environmental Services; Arleen O'Donnell, Eastern Research Group

“YOU WANT TO BUILD WHAT?” AND OTHER WORDS OF ENCOURAGEMENT

David Yoskowitz, Harte Research Institute, Texas A&M University

VALUING TRADE-OFFS IN COASTAL WETLANDS ECOSYSTEM SERVICES FROM SAGINAW BAY TO WESTERN LAKE ERIE

Lou Nadeau, Eastern Research Group

INTEGRATING ECOSYSTEM-BASED FISHERIES MANAGEMENT AND CO-MANAGEMENT

Marina Cucuzza, Joshua Stoll, and Heather Leslie, University of Maine

## 3:30 to 4:00 p.m.

Colonial

### **BREAK**

## 4:00 to 5:30 p.m.

Carolina A

### **ORAL PRESENTATIONS: Engaging Stakeholders to Solve Complex Coastal Issues**

AN ISLAND OASIS, BUT A DESERT FOR COMMUNITY INFLUENCE

Katherine Canfield and Jessica Frazier, University of Rhode Island

COLLABORATION AND COASTAL GOVERNANCE: ENGAGING STAKEHOLDERS ON COASTAL ISSUES

Matthew Nowlin, College of Charleston; Susan Lovelace, South Carolina Sea Grant; Justin Reedy, University of Oklahoma

SOCIAL ATTACHMENTS DRIVE CIVIC ENGAGEMENT IN CLIMATE CHANGE ADAPTATION

Mae Davenport, Amit Pradhananga, and Jennifer Shepard, University of Minnesota

UTILIZING VIRTUAL MEETINGS TO INTEGRATE STAKEHOLDER INPUT IN AN INTERDISCIPLINARY GULF OF MEXICO SEA LEVEL RISE RESEARCH PROJECT

Renee Collini, Northern Gulf of Mexico Sentinel Site Cooperative; Denise DeLorme, Louisiana State University

**4:00 to 5:30 p.m.**

Carolina B

**ORAL PRESENTATIONS: Climate Change Adaptation and Planning Strategies**

FACTORS DRIVING LANDOWNERS' CLIMATE CHANGE ADAPTATION STRATEGIES IN COASTAL NORTH CAROLINA

Lindsey S. Smart, North Carolina State University; Jordan W. Smith, Utah State University; Ross K. Meentemeyer, North Carolina State University

MAKING CLIMATE ADAPTATION RECOMMENDATIONS FOR HISTORIC BUILDINGS: SURVEY RESULTS FROM AN APPLICATION WITH EXPERTS IN COASTAL NORTH CAROLINA

Allie McCreary, Erin Seekamp, and Sandra Fatoric, North Carolina State University

THE DEAL ISLAND PENINSULA PROJECT: ANTHROPOLOGICAL INSIGHTS ON COLLABORATIVE CLIMATE CHANGE PLANNING

Elizabeth Van Dolah, Michael Paolisso, and Katherine J. Johnson, University of Maryland; Sasha Land, Maryland Department of Natural Resources; Jen Dindinger, University of Maryland Sea Grant Extension

TWO STEPS FORWARD, ONE STEP BACK—ADVANCING ADAPTATION PLANNING IN CALIFORNIA

Alyssa Newton Mann, University of Southern California Sea Grant; Susanne Moser, Susanne Moser Research and Consulting; Phyllis Grifman, University of Southern California Sea Grant; Juliette Finzi Hart, U.S. Geological Survey; Nicholas Sadrpour, University of Southern California Sea Grant

**4:00 to 5:30 p.m.**

Calhoun

**TACKLE-THE-ISSUE FACILITATED DISCUSSION: Developing Socioeconomic Indicators: A Monitoring Baseline of Communities near Coral Reefs**



Peter Edwards and Arielle Levine, The Baldwin Group at NOAA Office for Coastal Management, Coral Reef Conservation Program; Jarrod Loerzel and Matthew Gorstein, JHT at NOAA National Centers for Coastal Ocean Science, Hollings Marine Laboratory

*NOAA's Coral Reef Conservation Program, in partnership with the National Centers for Coastal Ocean Science, is leading an integrated effort to monitor the biological, climate, and socioeconomic characteristics of the U.S. coral reef jurisdictions. The results of socioeconomic surveys and compiled secondary data will feed into a suite of 13 socioeconomic indicators in order to track relevant information regarding each jurisdiction's social and economic structure. The first round of socioeconomic monitoring in all seven of the inhabited US coral reef jurisdictions has just been completed. This year we are calculating our baseline indicator scores to be used for socioeconomic monitoring. Through this facilitated discussion, we hope to gather expert input on ways to operationalize these indicators, on variables that may be best suited to feed into them, and on other secondary data sources.*

#### **4:00 to 5:30 p.m.**

Gold

#### **ORAL PRESENTATIONS: Social Science Data to Enhance Water Quality Management**

ADAPTIVE MANAGEMENT STRATEGIES FOR THE CHESAPEAKE BAY REGARDING TMDLS

Alexis Cunningham, University of Delaware

INTEGRATING SOCIAL AND ENVIRONMENTAL DATA TO EVALUATE WATER QUALITY IMPROVEMENTS IN THE CHESAPEAKE BAY WATERSHED

Heather Dantzker, Dantzker Consulting, LLC

THE SOCIAL INDICATOR PROJECT: INTEGRATING SOCIAL SCIENCE INTO ECOSYSTEM MANAGEMENT FOR NEW HAMPSHIRE'S ESTUARIES

Jill Farrell, Roca Communications; Shannon Rogers, University of New Hampshire; Abigail Lyon, Piscataqua Region Estuaries Partnership; Simone Barley-Greenfield, New Hampshire Coastal Program

SOLID WASTE MANAGEMENT IN COASTAL GHANA

Ivy Akuoko, University of Rhode Island

#### **6:00 to 7:00 p.m.**

Colonial

#### **HAPPY HOUR WITH THE SPONSORS**

*Join our sponsors to learn about the services and tools they have to offer. Reconnect with old colleagues and meet new ones. Light refreshments will be provided.*

**WEDNESDAY, FEBRUARY 7**

**7:30 a.m. to 5:00 p.m.**

Mezzanine

**FORUM CHECK-IN**

**7:30 a.m. to 5:00 p.m.**

Drayton

**SPEAKER READY ROOM**

**8:00 to 8:30 a.m.**

Colonial

**COFFEE**

**8:30 to 10:00 a.m.**

Carolina A

**ORAL PRESENTATIONS: Should I Stay or Should I Go? NOAA Efforts in Risk Communication**

HOW PEOPLE MAKE DECISIONS ABOUT RISK

Elizabeth Rohring, NOAA Sea Grant and Denna Geppi, NOAA Office of Chief Economist

HURRICANE AND WEATHER THREATS

Gina Eosco, NOAA Office of Weather and Air Quality

CLIMATE AND RISK COMMUNICATION

Caitlin Simpson and Chelsea Combest-Friedman, NOAA Climate Program Office

NEWSPAPER MEDIA ANALYSIS OF MAINE AQUACULTURE COVERAGE

Laura Rickard and Kevin Duffy, University of Maine

DETERMINING COASTAL HAZARDS RISK PERCEPTION TO ENHANCE LOCAL MITIGATION PLANNING THROUGH KNOWLEDGE INTEGRATION

Matthew Bethel, Louisiana Sea Grant

**8:30 to 10:00 a.m.**

Carolina B

**ORAL PRESENTATIONS: Integrating Social Science Research and Management at the Block Island Wind Farm**

SOCIAL SCIENCE RESEARCH PRIORITIES FOR OFFSHORE WIND ENERGY IN THE U.S.

David Bidwell, University of Rhode Island

TOWARD AN INTERDISCIPLINARY SOCIAL SCIENCE OF OFFSHORE WIND: INNOVATIONS IN RESEARCH METHODS

Amelia Moore, University of Rhode Island

FROM RESEARCH TO MANAGEMENT: DEVELOPING INDICATORS OF WIND FARM EFFECTS ON TOURISM AND RECREATION

Tiffany Smythe and Jennifer McCann, University of Rhode Island/Rhode Island Sea Grant College Program

INTEGRATING SOCIAL SCIENCE RESEARCH INTO OFFSHORE WIND ENERGY DEVELOPMENT DECISIONS

Amy Stillings, Bureau of Ocean Energy Management

**8:30 to 10:00 a.m.**

Calhoun

**TACKLE-THE-ISSUE FACILITATED DISCUSSION: Facing Historic Flooding in a Managed System: How to Communicate Risks in Politically Polarized Environments**

Katherine Bunting-Howarth and Mary Austerman, New York Sea Grant

*In 2017, residents along the southern shore of Lake Ontario experienced the worst flooding on record. This event coincided with the January 2017 implementation of a new lake level management plan designed to allow for more ecological flows, creating periods of higher highs and lower low. Many communities adamantly opposed the implementation of any new plan which would allow for more lake level variation, while environmental and fishing interests looked forward to improved ecological conditions under the new plan. New York Sea Grant funded a survey which assessed impacts to coastal properties from this record high water. What social science methods and tools could best communicate the findings from this survey given the polarized stakeholders involved?*

**8:30 to 10:00 a.m.**

Gold

**SHORT AND SWEET PRESENTATIONS: Stakeholder Engagement and Citizen Science**

COASTAL CONFLICTS AND CROSS-SECTORAL ENGAGEMENT: LEARNING FROM DISPUTES OVER SCIENCE IN COASTAL AND MARINE RESOURCE MANAGEMENT

Lindsey Williams, University of New Hampshire

KNOWLEDGE INTEGRATION: THE EVOLUTION OF STAKEHOLDER NETWORK AND ATTITUDES THROUGH A PARTICIPATORY MODELING PROCESS

Taylor Goetz, Virginia Institute of Marine Science; Troy Hartley, Virginia Sea Grant; Elizabeth North and Mike Wilberg, University of Maryland Center for Environmental Science; Jeff Blair, Florida State University; Jeff Cornwell and Raleigh Hood, University of Maryland Center for Environmental Science; Robert Jones, Florida State University; Lisa Wainger and Rasika Gawde, University of Maryland Center for Environmental Science; Chris Hayes, University of Maryland Center for Environmental Science/ Maryland Sea Grant; Melanie Jackson and Matt Damiano, University of Maryland Center for Environmental Science

CITIZEN SHORELINE REGULATORS: GOOD PROCESS FOR GOOD DECISIONS?

Michelle Covi, Old Dominion University/Virginia Sea Grant

LESSONS ON COMMUNICATING FLOOD RISK IN HAMPTON ROADS, VIRGINIA

Ashley Gordon and Benjamin McFarlane, Hampton Roads Planning District Commission;  
Michelle Covi, Old Dominion University

BEYOND ELEVATION: EXPLORING A HOLISTIC APPROACH TO COASTAL FLOOD RISK MANAGEMENT

Jake Thickman, Association of State Floodplain Managers

HOW WE BADGERED, ER, ENTICED PEOPLE TO SUBMIT 5,000 STORM DAMAGE AND KING TIDE REPORTS

Wes Shaw, Blue Urchin, LLC

CATALYZING MUNICIPAL STAKEHOLDER ENGAGEMENT IN STORMWATER FUNDING

Julia Twichell and Kate Mulvaney, U.S. Environmental Protection Agency; Carri Hulet,  
Consensus Building Institute; Anne Leiby, Marilyn ten Brink, and Josh Secunda, U.S.  
Environmental Protection Agency

**10:00 to 10:30 a.m.**

Colonial

**BREAK**

**10:30 a.m. to Noon**

Carolina A

**ORAL PRESENTATIONS: Communicating Risk of Coastal Hazards**

WHITECAPS ON MAINE STREET: COMMUNICATING STORM SURGE RISK DURING HURRICANE IRMA

Jill Gambill, University of Georgia Marine Extension and Georgia Sea Grant; Heather  
Lazrus, Jennifer Boehnert, Julie Demuth, Cindy Gotway, Rebecca Morss, and Olya  
Wilhelmi, National Center for Atmospheric Research

USING STAKEHOLDER PARTICIPATORY MAPPING TO UPDATE A HURRICANE STORM SURGE MODEL FOR  
COASTAL LOUISIANA

Denise DeLorme, Scott Hagen, and Matthew Bilskie, Louisiana State University

COMMUNICATING RIP CURRENT RISK

Kate Quigley, ECS Federal, Inc.; Burrell Montz-Covey, East Carolina University; Thomas  
Allen, Old Dominion University

USING SOCIAL SCIENCE TO INFORM HYDROLOGIC FORECASTING IN COASTAL AREAS

Arleen O'Donnell, Eastern Research Group; Rachel Hogan Carr, Nurture Nature; Kathleen  
McAllister, Horsley Witten

**10:30 a.m. to Noon**

Carolina B

**ORAL PRESENTATIONS: Planning for Offshore Wind Energy**

THE ECONOMIC IMPACTS OF FLOATING OFFSHORE WIND: WHAT DOES THE JEDI SAY?

Sara Gultinan, Bureau of Ocean Energy Management

PERCEPTIONS OF FAIRNESS OF PROCESS: THE BLOCK ISLAND OFFSHORE WIND PROJECT

Christine Hirt and Jeremy Firestone, University of Delaware; David Bidwell, University of Rhode Island; Meryl Gardner, University of Delaware

IMPACT OF THE BLOCK ISLAND WIND FARM ON MARINE RESOURCE USERS

Talya ten Brink and Tracey Dalton, University of Rhode Island; Julia Livermore, Rhode Island Department of Environmental Management

HOW WILL MARINE RECREATIONAL BOATERS RESPOND TO OFFSHORE WIND FARMS?

Tracey Dalton, University of Rhode Island; Julia Livermore, Rhode Island Department of Environmental Management; Nelle D'Aversa, Jim Opaluch, and Robert Thompson, University of Rhode Island

### **10:30 a.m. to Noon**

Calhoun

#### **TOOL DEMONSTRATION AND JOB AID ROUNDTABLE**

MYCOAST SOUTH CAROLINA: ENHANCING PUBLIC AWARENESS AND COMMUNICATION OF COASTAL VULNERABILITY THROUGH CITIZEN ENGAGEMENT

Liz Hartje, South Carolina Department of Health and Environmental Control, Ocean and Coastal Resource Management

*Become familiar with MyCoast South Carolina, an application designed to engage the public, visualize the impact of coastal hazards, collect data, and enhance awareness of coastal vulnerability among decision-makers, stakeholders, and the public.*

SOCIAL SCIENCE BASICS – USING MINI-MODULES TO TACKLE A BIG PROBLEM

Alison Krepp and Elizabeth Rohring, NOAA National Sea Grant Office; Denna Geppi, NOAA Office of the Chief Economist; Nancy Beller-Simms, NOAA Climate Program Office

*Scroll through Social Science Basics, a virtual module series designed to increase literacy in the social sciences so participants can be more effective and productive partners in tackling complex coastal issues on cross-science teams.*

CROWDSOURCING RECREATIONAL USE DATA IN NEW YORK STATE

Alexander Kuttesch, New York State Department of State

*Come learn about two applications developed to gather recreational use data—through a mobile app that is populated by recreational users and through harvesting location and attitude data from public social media posts.*

COMMUNICATING CLIMATE SCIENCE AND PERCEPTIONS THROUGH AN ART AND SCIENCE COLLABORATIVE: ENGAGING YOUTH AND COASTAL COMMUNITIES IN ALASKA

Ingrid Syverine Bentz, Christine Abrahamson, Alice Rademacher, and Jim Scholemer, Kachemak Bay Naitonal Estuarine Research Reserve

*Be introduced to the Climate Art and Science Collaborative, a project that fostered an innovative collaboration among scientists, youth, and artists to understand impacts of local climate change.*

PLANNING AND SCOPING FOR EFFECTIVE ECOSYSTEM SERVICES PROJECTS—QUICK REFERENCE AND WORKSHEET TOOLS

Peter Wiley, NOAA Office for Coastal Management; Rebecca Love and Jennifer Zhuang, The Baldwin Group at NOAA Office for Coastal Management; Tricia Ryan, NOAA Office for Coastal Management

*Grab a “Quick Reference Questionnaire” designed to assess whether an ecosystem services approach is appropriate for your project, and snag a “Worksheet for Considering an Ecosystem Services Approach for Project Planning,” which digs deeper to address the specifics of these questions.*

ADAPTVA: NEW WEBSITE HIGHLIGHTS ADAPTATION TO CHANGING CLIMATE

Pamela Mason, Virginia Institute of Marine Science

*Be introduced to Adapt Virginia, a gateway to information for individuals, local programs, and agencies engaged in climate adaptation that includes local and policy resources, and stories that address short- and long-term predictions for rising water levels,*

### **10:30 a.m. to Noon**

Gold

**ORAL PRESENTATIONS: Coastal Management: Why Embrace Diversity, Equity, and Inclusion? And a Bit of the How: A Panel Discussion**

Panel Members:

Jane Harrison, North Carolina Sea Grant

Marie Auyong, University of Guam Sea Grant

Daniel Burger, South Carolina Department of Health and Environmental Control

Mathew Sanders, Louisiana Office of Community Development

### **Noon to 1:30 p.m.**

Colonial

**NETWORKING LUNCHEON**

### **1:30 to 3:00 p.m.**

Carolina A

**ORAL PRESENTATIONS: Climate Change Communication and Local Impacts**

FILLING THE VOID: DEVELOPING A CLIMATE SCIENCE ADVISORY PANEL TO INFORM GOVERNMENT OPERATIONS

Libby Carnahan, Florida Sea Grant

DIRTY DUTIES: HOW LOCAL GOVERNMENTS MAY BE HELD INCREASINGLY LIABLE FOR FAILURE TO MAINTAIN SEWER AND WASTEWATER SERVICES DUE TO CLIMATE CHANGE IMPACTS

Danielle Goshen, Georgia Sea Grant

INNOVATIVE VOICES ON CLIMATE CHANGE

Jennifer Bender and Nicole Weber, University of Massachusetts

COMMUNICATING CLIMATE RISKS AND THE NEED FOR PLANNING IN RURAL COMMUNITIES: USING SOCIAL SCIENCE TO INFORM TOOL TAILORING

Mary Austerman and Katherine Bunting-Howarth, New York Sea Grant; Sara Stahlman, Pennsylvania Sea Grant

**1:30 to 3:00 p.m.**

Carolina B

**ORAL PRESENTATIONS: Community Engagement Strategies to Enhance FEMA Programs**

FEMA'S EVOLVING JOURNEY TO THE CUSTOMER: HELPING COMMUNITIES BRIDGE THE GAP BETWEEN AWARENESS TO ACTION

Meg Bartow and Francie Israeli, Resilience Action Partners; Peter Herrick, Jr., Federal Emergency Management Agency

REGIONAL MANAGEMENT: MAKING THE COMMUNITY RATING SYSTEM WORK FOR RESOURCE-LIMITED COMMUNITIES

Shannon Jarbeau, Barnstable County Cape Cod Cooperative Extension/Woods Hole Sea Grant

EVOLVING FLOOD RISK—COMMUNITY-LEVEL NEEDS AND PREFERENCES FOR DEPICTING, PACKAGING, AND COMMUNICATING INFORMATION FOR ADAPTATION

Krista Conner, Resilience Action Partners; Peter Herrick, Jr., Federal Emergency Management Agency

HOW DOES "RESILIENCY" MAKE YOU FEEL? INFORMATION TO IDENTIFY BIAS AND TOOLS FOR SUPPORTING CREATIVE RISK COMMUNICATION AND MITIGATION PLANNING STRATEGIES IN FEMA REGION 10

Kate Skaggs, Resilience Action Partners/Michael Baker International; Amanda Siok, Federal Emergency Management Agency

**1:30 to 3:00 p.m.**

Calhoun

**TACKLE-THE-ISSUE FACILITATED DISCUSSION: Dazed and Confused: How Do We Get the Public to Better Act on Risk?**

Elizabeth Rohring, NOAA National Sea Grant Office; Chris Ellis, NOAA Office for Coastal Management; Valerie Were, NOAA Office of the Chief Economist

*This session will build on the session earlier in the day, "Should I Stay or Should I Go? NOAA Efforts in Risk Communication," by engaging practitioners and researchers to identify gaps, resources, and lessons learned. Outcomes from the sessions will help build partnerships among our community by identifying common goals, existing resources, and*

*opportunities for collaboration. Through these efforts the community can better work toward a consistent and research-based framework for communicating risk, and improved public ability to make informed decisions regarding environmental hazards in the face of uncertainty.*

**1:30 to 3:00 p.m.**

Gold

**STORYTELLING PRESENTATIONS: The Stories No One Tells about Outreach and Engagement**

ALICE DISCOVERS CONFLICT “THROUGH THE LOOKING GLASS”

Christine Feurt, Wells National Estuarine Research Reserve

SOUTH CHINA DIDN’T SEE IT COMING: CORAL CONSERVATION IN THE SOUTH CHINA SEA

Rennie Meyers, University of Rhode Island

SNAP N’ CHAT: USING PHOTOVOICE AS A TOOL TO ELICIT LOCAL OBSERVATIONS OF CLIMATE CHANGE IMPACTS

Vidya Balasubramanyam, New Hampshire Coastal Program; Sonja Wilhelm Stanis and Mark Morgan, University of Missouri

WHEN COMMUNICATION OUT-RUNS REMEDIATION

Ben Wegleitner and Caitie Nigrelli, Illinois-Indiana Sea Grant

**3:00 to 3:30 p.m.**

Colonial

**BREAK**

**3:30 to 5:00 p.m.**

Carolina A

**ORAL PRESENTATIONS: Assessing Vulnerability to Flooding, Weather Hazards, and Sea Level Rise**

ASSESSING URBAN FLOOD RISK AND SOCIAL VULNERABILITY

Jeff Stone, Association of State Floodplain Managers

UNIVERSITY TALENTS MEET LOCAL GOVERNMENT ADAPTATION NEEDS

Skip Stiles, Wetlands Watch

IDENTIFYING LOCAL BUSINESS AND GOVERNMENT VULNERABILITY TO SEA LEVEL RISE IN COASTAL VIRGINIA

Sarah Stafford, College of William and Mary



EVALUATING THE VULNERABILITY OF BOSTON'S INNER HARBOR DESIGNATED PORT AREAS TO SEA LEVEL RISE AND COASTAL STORMS

Seth Tuler, Jacob Bouchard, Austen Crawford, Caroline Warchol, and Kyle Whittaker, Worcester Polytechnic Institute; Jill Valdes-Horwood, Boston Harbor Now; Jennifer deWinter, Worcester Polytechnic Institute

**3:30 to 5:00 p.m.**

Carolina B

**ORAL PRESENTATIONS: Data Collection with Stakeholders**

FISHERFOLK ENGAGEMENT IN SCIENCE AND CO-MANAGEMENT OF FISHERIES IN GHANA

Najih Lazar, University of Rhode Island

WORKING WITH RECREATIONAL USERS TO REDUCE DISTURBANCE TO MIGRATORY SHOREBIRDS DURING HIGH TIDE ROOSTING PERIODS IN THE MINAS BASIN, NOVA SCOTIA

Jaya Fahey, Bird Studies Canada; Kate Sherren, Dalhousie University; Sue Abbott, Bird Studies Canada

A CITIZEN SCIENCE APPROACH TO GROUNDWATER MONITORING: THE IMPACTS OF PARTICIPATION ON KNOWLEDGE AND ATTITUDES, AND IMPLICATIONS FOR MANAGEMENT

Cynthia Grace-McCaskey, Alex Manda, J. Randall Etheridge, and Jennifer O'Neill, East Carolina University

HISTORICAL ECOLOGY FOR RISK MANAGEMENT: COASTAL OBSERVERS OF BARROW COMMUNITY BASED MONITORING

Anne Garland, Applied Research in Environmental Sciences Nonprofit, Inc.

**3:30 to 4:10 p.m.**

Calhoun

**ON-THE-SPOT SKILL BUILDING: Practice Makes Perfect: Building Risk Communication Skills**

Tashya Allen, The Baldwin Group at NOAA Office for Coastal Management; Stephanie Fauver, NOAA Office for Coastal Management; Sarah Watson, South Carolina Sea Grant

*The best way to improve your risk communication skills is to practice. Yeah we know, it's painful, but we're offering a safe place to practice some real-life situations we all encounter when talking about hazards and climate change preparedness. You'll learn how people think and make decisions about risks, and practice applying social science and risk communication best practices to your conversations. You'll be able to communicate with the people you serve, in a way that connects with what they care about when it comes to safety and preparedness.*

**4:20 to 5:00 p.m.**

Calhoun

**ON-THE-SPOT SKILL BUILDING: Strategic Framing for Climate Change Communication**

Jennifer West, Narragansett Bay National Estuarine Research Reserve

*This interactive session will introduce a research-based approach to communicating about climate change that helps engage audiences in positive ways, by overcoming traditional barriers and cuing people to think productively about solutions. Participants will learn about strategic framing and practice applying some of the techniques. The information is based on the National Science Foundation-funded National Network for Ocean and Climate Change Interpretation (NNOCCI) project. Evaluations show that NNOCCI is having a positive impact on climate interpretation; two visitor intercept studies showed that visitors to NNOCCI institutions are hearing more about climate change, and that exposure to strategically framed interpretation changes visitors' perceptions of the issue. They report more belief that actions matter and are more hopeful about their ability to talk about climate change and take other pro-environmental behaviors.*

**3:30 to 5:00 p.m.**

Gold

**SHORT AND SWEET PRESENTATIONS: Using Natural Infrastructure to Provide Multiple Community Values**

USING LITERATURE TO ENGAGE STAKEHOLDERS AROUND NATURAL INFRASTRUCTURE IMPLEMENTATION

Lauren Long, The Baldwin Group at NOAA Office for Coastal Management

FOSTERING INCIDENTAL EXPERIENCES OF NATURE THROUGH GREEN AND BLUE INFRASTRUCTURE PLANNING

Thomas Beery, University of Minnesota Sea Grant

IS "BENEFICIAL USE" REALLY BENEFICIAL? BUILDING A NETWORK TO UNDERSTAND THE CHALLENGES, OPTIONS, AND PRACTICES FOR USING DREDGE MATERIAL FOR RESTORATION IN MARYLAND

Jackie Specht, Maryland Department of Natural Resources

COLLABORATING FOR WATER QUALITY: CREATING THE TOWN OF BEAUFORT'S (NORTH CAROLINA) WATERSHED RESTORATION PLAN

Whitney Jenkins, North Carolina National Estuarine Research Reserve; Lauren Kolodij and Mariko Polk, North Carolina Coastal Federation

PERCEPTIONS, ATTITUDES, AND BELIEFS OF COMMUNITIES NEAR CORAL REEFS

Matthew Gorstein and Jarrod Loerzel, JHT at NOAA National Centers for Coastal Ocean Science, Hollings Marine Laboratory; Peter Edwards and Arielle Levine, The Baldwin Group at NOAA Office for Coastal Management, Coral Reef Conservation Program

DOES THE STUDY FIT? MATCHING ECONOMIC ANALYSES TO COASTAL MANAGEMENT QUESTIONS AND COMMUNICATION NEEDS

Marisa Mazzotta, Kate Mulvaney, and Sheri Jewhurst, U.S. Environmental Protection Agency

ECONOMIC VALUATION OF STORM DAMAGE REDUCTION PROVIDED BY NATURAL INFRASTRUCTURE  
Jarrod Loerzel, Matthew Gorstein, and Chloe Fleming, JHT at NOAA National Centers for Coastal Ocean Science, Hollings Marine Laboratory; Sarah Gonyo, NOAA National Centers for Coastal Ocean Science

**7:00 to 10:00 p.m.**

Gadsden House

**OFFSITE NETWORKING RECEPTION**

*Continue your conversations with your colleagues as you enjoy heavy hors d'oeuvres and refreshments and explore a traditional Charleston single home. The Gadsden House (329 East Bay Street) was built in 1798 by Christopher Gadsden, a revolutionary war hero and statesman representing the colony in the First Continental Congress. The house was given as a wedding gift to his son Philip Gadsden and continued to house members of the family until the early 20<sup>th</sup> century. Thank you to the forum sponsors for providing this reception.*

**THURSDAY, FEBRUARY 8**

**8:00 to 11:00 a.m.**

Mezzanine

**FORUM CHECK-IN**

**8:00 to 11:00 a.m.**

Drayton

**SPEAKER READY ROOM**

**8:00 a.m. to 12:30 p.m.**

Mezzanine

**EVALUATION DROP-OFF**

**8:30 to 9:00 a.m.**

Mezzanine outside Carolina A

**COFFEE**

**9:00 to 10:30 a.m.**

Carolina A

**ORAL PRESENTATIONS: Measuring Management of Ecosystem Services**

ECOSYSTEM SERVICE INFORMATION – WE'VE GOT IT, NOW WHAT?

Jane Ballard, National Estuarine Research Reserve Association

DEVELOPING A HIERARCHICAL INTEGRATED MODEL OF INDICES TO MEASURE FULFILLMENT OF ECOSYSTEM SERVICE GOALS AND ENVIRONMENTAL PROTECTION

Mary Allen and David Loomis, East Carolina University

ECONOMIC VALUES OF COASTAL EROSION MANAGEMENT  
Craig Landry, University of Georgia

ECOSYSTEM SERVICES AND NATURAL INFRASTRUCTURE PERFORMANCE METRICS: DEVELOPMENT AND MONITORING RESULTS

Susan Taylor, Abt Associates; Kim Penn, NOAA Office for Coastal Management; Rick Bennett, U.S. Fish and Wildlife Service; Pete Murdoch, U.S. Geological Survey; Bhaskar Subramanian, Maryland Department of Natural Resources

**9:00 to 10:30 a.m.**

Carolina B

**ORAL PRESENTATIONS: Resilience and Social Justice**

INTEGRATING ENVIRONMENTAL JUSTICE AND EQUITY INTO STATE COASTAL ZONE MANAGEMENT: LESSONS LEARNED FROM THE CALIFORNIA COASTAL COMMISSION

Sumi Selvaraj, California Coastal Commission

PERSPECTIVES ON RURAL COASTAL RESILIENCE IN NORTH CAROLINA: COMPARISONS BETWEEN DIVERSE COMMUNITIES

Matthew Jurjonas, Erin Seekamp, Louie Rivers, and Angus Spencer, North Carolina State University

AGING IN FLOOD-PRONE COASTAL COMMUNITIES: DISCERNING HEALTH AND WELL-BEING RISKS FOR OLDER RESIDENTS

Anamaria Bukvic, Jessica Suggs, Julia Gohlke, and Yang Shao, Virginia Tech

SEA LEVEL RISE AND THE GULLAH/GEECHEE PEOPLE

Daniel Harrison, Lander University; Queen Quet Marquette Goodwine, Gullah/Geechee Nation; Todd Holloway, Holloway EPI/SC and Savannah /Chatham Public Schools; Annette Watson, College of Charleston

**9:00 to 9:40 a.m.**

Calhoun

**ON-THE-SPOT SKILL BUILDING: Taking Stock, Listening Walks and Trash Talk – Processes and Techniques for Engaging Engagement**

Liz Lasicki, The Baldwin Group at NOAA Office for Coastal Management; Darlene Finch and Ann Weaver, NOAA Office for Coastal Management

*Facilitators are always on the lookout for new, effective ways to engage stakeholders. This session provides an opportunity for coastal professionals to share, learn, and practice three engagement techniques that lead to successful meetings and ultimately to high-quality communication, collaboration, and decision-making. Learn how to take stock by conducting a pre-meeting assessment, how and when to do Listening Walks, and how to Trash Talk, a way to close a meeting. You will exchange tips and ideas with other facilitators and practice using three facilitation tools in a safe and friendly environment.*

**9:50 to 10:30 a.m.**

Calhoun

**ON-THE-SPOT SKILL BUILDING: The Skilled Facilitator – Applying ASERT Tools for Addressing Coastal Resilience**

Wie Yusuf and Michelle Covi, Old Dominion University and Virginia Sea Grant; J. Gail Nicula, Old Dominion University

*This interactive session will provide participants with the opportunity to learn and practice stakeholder facilitation using ASERT (Action-Oriented Stakeholder Engagement for a Resilient Tomorrow) tools. The ASERT framework is a participatory approach designed to help policy makers, planners, community leaders, and others in broad stakeholder engagement (beyond simple public participation) that emphasizes action-oriented resilient responses such as to flooding and sea level rise. Participants will practice with three tools: participatory mapping, prioritization activities, and gamification.*

**9:00 to 10:30 a.m.**

Gold

**ORAL PRESENTATIONS: Human Health and Well-Being**

IMPACTS OF NATURE EXPOSURE ON HUMAN HEALTH AND WELL-BEING: ADDITIONAL JUSTIFICATION FOR ECOSYSTEM CONSERVATION AND FOR RESTORATION AND DISASTER PLANNING

Ariana Sutton-Grier, The Nature Conservancy; Paul Sandifer, College of Charleston

COASTAL COMMUNITIES, EXTREME WEATHER, AND TOXIC MOBILIZATION

Lemir Teron, State University of New York; Hans Louis-Charles, University of Nebraska; Farah Nibbs, State University of New York

ADAPTING THE CLIMATE RESILIENCE SCREENING INDEX FOR DEMONSTRATION IN SELECTED U.S. COASTAL COUNTIES: EPA REGION 4 AND SOUTH CAROLINA

Lisa Smith, Kevin Summers, Linda Harwell, Kyle Buck, and Justin Bousquin, U.S. Environmental Protection Agency

WELL-BEING EFFECTS OF EXTREME WEATHER EVENTS IN THE UNITED STATES

Mona Ahmadiani and Susana Ferreira, University of Georgia

**9:00 to 10:30 a.m.**

Colonial

**SHORT AND SWEET PRESENTATIONS: Encouraging Environmentally Friendly Behavior and Action**

OVERCOMING BARRIERS TO PRO-ENVIRONMENTAL BEHAVIOR: STRATEGIES TO ENGAGE STAKEHOLDERS

Chris Wynveen, Baylor University; Brooklyn Wynveen, Sam Houston State University; Steve Sutton, Atlantic Salmon Federation

INTEGRATING THE SOCIAL AND NATURAL SCIENCES TO AID IN BMP ADOPTION RATES  
Amanda Rockler, Victoria Chanse, Paul Leinsham, Hubert Montas, and Adel Shirmohammadi, University of Maryland; John McCoy, Columbia Association

LIFE BY THE SEA: BRIDGING SCIENCE AND PUBLIC PERCEPTIONS FOR AN OCEAN CONNECTIVITY INDEX  
Simon Ryder-Burbridge, Dalhousie University

WHO'S AT THE ECOLOGICAL DISASTER RISK REDUCTION DINNER TABLE? BRIDGING THE GAP BETWEEN ENVIRONMENTAL AND DISASTER MANAGEMENT SECTORS  
Morgan Chow, The Nature Conservancy; Omar Abou-Samra, Global Disaster Preparedness Center; Ade Rachmi Yuliantri, Laura Flessner, and Zach Ferdaña, The Nature Conservancy

ART AND SCIENCE AWAKEN COMMUNITIES TO FLOODING IMPACTS AND ACTIONS  
Mary Culver, NOAA Office for Coastal Management; Cathryn Zommer, Enough Pie

EMPOWERING FISHERFOLK THROUGH IMPROVED ENABLING CONDITIONS FOR THE GOVERNANCE OF GHANA'S MARINE FISHERIES  
Brian Crawford, University of Rhode Island; Kofi Agbogah and Stephen Kankam, Hen Mpoano; Kyei Yamoah, Friends of the National Abraham Asare, Development Action Association; Socrates Apetorgbor and Maurice Knight, University of Rhode Island; and Raymond Babanawo, MOFAD

RESHAPING THE DEVELOPMENT DISCUSSION: CONNECTING ELECTED OFFICIALS AND RESILIENCE EXPERTS IN LOUISIANA  
Traci Birch and Jeff Carney, Louisiana State University

**10:30 to 11:00 a.m.**

Mezzanine outside Carolina A

**BREAK**

**11:00 a.m. to 12:30 p.m.**

Carolina A

**ORAL PRESENTATIONS: Valuing our Oceans and Coasts**

AN INCOMPLETE DEMAND SYSTEM APPROACH TO VALUING BEACH TRIPS AND BEACH QUALITY  
Benjamin Leiva Crispi and Craig E. Landry, University of Georgia

BUILDING THE OCEAN ECONOMY SATELLITE ACCOUNT  
Charles Goodhue, and Lou Nadeau Eastern Research Group; Jeffery Adkins, Integrated Systems Solutions, Inc. at NOAA Office of the Chief Economist; Jennifer Zhuang, The Baldwin Group at NOAA Office for Coastal Management

AN ECONOMIC ANALYSIS OF SHIPPING COSTS RELATED TO POTENTIAL MEASURES TO MANAGE THE CO-OCCURRENCE OF MARITIME VESSEL TRAFFIC AND WHALES IN THE CHANNEL ISLANDS REGION  
Sarah Ball Gonyo and Theresa L. Goedeke, NOAA National Centers for Coastal Ocean Science; K. Eric Wolfe, NOAA National Ocean Service; Christopher F.G., Jeffrey, Matt Gorstein, Matthew Poti, and Daniel S. Dorfman, NOAA National Centers for Coastal Ocean Science

ESTIMATING YOUR WORKING WATERFRONT ECONOMY: USING THE ENOW FRAMEWORK TO ANALYZE OCEAN ECONOMICS DATA AT THE LOCAL LEVEL  
Gabe Sataloff, Jennifer Zhuang, and Camille Martineau, The Baldwin Group at NOAA Office for Coastal Management; Kristen Grant, Maine Sea Grant and the University of Maine Cooperative Extension; Jeffery Adkins, Integrated Systems Solutions, Inc. at NOAA Office of the Chief Economist

**11:00 a.m. to 12:30 p.m.**

Carolina B

**ORAL PRESENTATIONS: Engagement and Policy Implications for Vulnerable and Underrepresented Populations**

SEVERE WEATHER RISK ASSESSMENT AMONG THE ECONOMICALLY DISADVANTAGED IN MILWAUKEE, WISCONSIN  
Deidre Peroff, Wisconsin Sea Grant; Timothy Halbach, National Weather Service

POLICY IMPLICATIONS AND MEASUREMENT OF VARIATION IN REPAIR/REBUILD RECOVERY TIMES ACROSS POPULATION GROUPS  
Joshua Behr, Old Dominion University; Rafael Diaz, Massachusetts Institute of Technology; Bridget Giles and George McLeod, Old Dominion University

FROM STAKEHOLDER SHOALING TO SCHOOLING: MELDING INTERNAL PROJECT STRATEGY AND EXTERNAL FISHERIES GOVERNANCE DYNAMICS TO REACH CRITICAL LEVELS OF ENGAGEMENT IN GHANA'S SMALL PELAGICS FISHERY CRISIS  
Donald Robadue, Jr. and Maurice Knight, University of Rhode Island; Mary Asare, Ghana Sustainable Fisheries Management Project; Courtney Corvese, University of Rhode Island

THE IMPERATIVE FOR MAINSTREAMING GENDER IN FISHERIES MANAGEMENT: PROJECT DESIGNS AND PARTNER INTERVENTIONS FOR TRANSFORMATION AND LASTING IMPACT  
Elin Torell, Kristine Beran, and Karen Kent, University of Rhode Island; Adiza Ama Owusu, Hen Mpoano

**11:00 a.m. to 12:30 p.m.**

Calhoun

**TACKLE-THE-ISSUE FACILITATED DISCUSSION: Building Back Stronger after Disasters: Developing Holistic Built, Natural, and Social Solutions to Recovery after Hurricanes Harvey, Irma, and Maria**

Melissa A. Kenney, University of Maryland; Kim Penn, NOAA Office for Coastal Management; Ariana E. Sutton-Grier, The Nature Conservancy; Elisabeth Hamin, University of Massachusetts Amherst

*Participants will discuss the application of a framework, called Adaptation Gradients, which was developed by the “Sustainable Adaptive Gradients in Coastal Environments” scientist-practitioner network. It supports integrated approaches to development decisions, particularly in post-disaster recovery, and includes factors such as exposure reduction, cost efficiency, ecological enhancement, and equitable outcomes. We will explore how to support recovery options in the Caribbean using the framework as a tool. What are the biggest challenges with recovery? Are there limitations or opportunities to rebuild that allow for non-structural infrastructure approaches? How are diverse community perspectives being included in the recovery process? Was there planning before the hurricane to make post-hurricane recovery easier? Are diverse objectives included when making infrastructure decisions? How important are the different gradients in the short-term and long-term recovery decisions? What are the challenges to including more holistic infrastructure approaches in the planning and decision process?*

**11:00 a.m. to 12:30 p.m.**

Gold

**SHORT AND SWEET PRESENTATIONS: Tools for Ecosystem-based Management**

SHORE PROTECTION FOR A SURE TOMORROW: EVALUATING LEGAL PROVISIONS GOVERNING COASTAL DEVELOPMENT

Julia Shelburne and Shana Jones, University of Georgia and Georgia Sea Grant

ASSESSING THE ECONOMIC EFFECTS OF MARINE NATIONAL MONUMENTS

Egan Cornachione, self-employed contractor for the National Wildlife Refuge Association

DETERMINING THE ECONOMIC IMPACTS OF SPATIAL MANAGEMENT IN THE FLORIDA KEYS NATIONAL MARINE SANCTUARY

Amy Freitag, Dan Dorfman, and Angela Orthmeyer, NOAA National Centers for Coastal Ocean Science; Bob Leeworthy, NOAA Office of National Marine Sanctuaries

ADAPT ALASKA

Davin Holen, Alaska Sea Grant

HUMAN DIMENSIONS OF WATER QUALITY: ALIGNING HUMAN USE AND PERCEPTIONS WITH BIOPHYSICAL MEASUREMENTS

Kate Mulvaney, Marisa Mazzotta, Sarina Lyon, and Nate Merrill, U.S. Environmental Protection Agency



COMMUNITY FORUMS: A TOOL TO GATHER PUBLIC DATA

Ramona Madhosingh-Hector, Libby Carnahan, and Lara Milligan, University of Florida/IFAS Extension

CITIZENS OBSERVING AND SURVEYING THE SHORELINE

Catherin Buchalski, Illinois Coastal Management Program

**11:00 a.m. to 12:30 p.m.**

Colonial

**ORAL PRESENTATIONS: Engaging the Public, Understanding Perceptions, and Communicating Effectively**

THE MYTH OF DRY FEET: WHAT WE CAN LEARN FROM HOW THE DUTCH ENGAGE IN FLOOD DEFENSE

Kristen Grant, Maine Sea Grant and University of Maine Cooperative Extension

HE SAID, SHE SAID: WHY SHORELINE MANAGEMENT IN ILLINOIS IS . . . COMPLICATED

Annie Turek and Catherine Buchalski, Illinois Department of Natural Resources' Coastal Management Program

OUT OF THE BOX OUTREACH

Lynne Keating, Federal Emergency Management Agency

BUCKING THE TREND, CIVIL DISCUSSION TO AGREEMENT?

Susan Lovelace, South Carolina Sea Grant Consortium; Matt Nowlin, College of Charleston; Justin Reedy, University of Oklahoma; Lee Bundrick and Stacey Weinstock, College of Charleston