

## **WEDNESDAY, JULY 22**

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

Arlington

### **SMART GROWTH: FROM RESEARCH TO OUTREACH**

Moderator: Andrea Cooper, Massachusetts Office of Coastal Zone Management

#### **COASTAL SMART GROWTH ELEMENTS IN PRACTICE: CASE STUDIES FROM THE GREAT LAKES REGION**

Rebecca Pearson and Victoria Pebbles, Great Lakes Commission; Heather Stirratt, NOAA Coastal Services Center

#### **ARE THEY READY? DETERMINING WHETHER OR NOT TOWNS ARE PREPARED TO SHIFT FROM TOWN-BASED LAND USE MASTER PLANNING TO WATERSHED MASTER PLANNING**

Erika Washburn, Ph.D. Candidate, University of New Hampshire; Steve Miller, Great Bay National Estuarine Research Reserve, Coastal Training Program

#### **SOUTH CAROLINA'S SHORELINE CHANGE ADVISORY COMMITTEE: RESEARCH PRIORITIES AND POLICY OPTIONS FOR THE FUTURE**

Matthew J. Slagel, Earth Resources Technology Inc. at the South Carolina Department of Health and Environmental Control, Office of Ocean and Coastal Resource Management; Braxton C. Davis, South Carolina Department of Health and Environmental Control, Office of Ocean and Coastal Resource Management

#### **USING COMMUNITY GROWTH SCENARIOS TO EVALUATE POTENTIAL WATER QUALITY IMPACTS**

Jesse Schomberg, University of Minnesota Sea Grant; Valerie Brady, Ph.D., and Gerry Sjerven, University of Minnesota, Duluth, Natural Resources Research Institute

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

Berkeley/Clarendon

### **COASTAL AND OCEAN OBSERVING SYSTEMS: APPROACHES AND APPLICATIONS**

Moderator: Anne Ball, NOAA Coastal Services Center

#### **APPLICABILITY OF THE INTEGRATED OCEAN OBSERVING SYSTEM FOR COASTAL MANAGEMENT: RESPONDING TO DATA AND INFORMATION NEEDS**

Josie Quintrell, National Federation of Regional Associations; Kate Zultner, Coastal States Organization

#### **BUILDING COASTAL COMMUNITY SUPPORT FOR OBSERVING SYSTEMS: NOAA "SMART BUOYS" AND THE CAPTAIN JOHN SMITH CHESAPEAKE NATIONAL HISTORIC TRAIL**

Andrew W. Larkin, NOAA Chesapeake Bay Office

**FISHERMEN IN OCEAN OBSERVING RESEARCH: ASSESSING THE AFFORDABILITY AND  
FEASIBILITY OF WORKING WITH OREGON COMMERCIAL CRAB FISHERMEN TO DEPLOY  
SCIENTIFIC INSTRUMENTATION**

Jeremy L. Childress, R. Kipp Shearman, Ph.D., and Michael Harte, Ph.D., Oregon  
State University

**AN INTERAGENCY COLLABORATION TOWARD IMPROVING INTEGRATION OF WATER  
QUALITY DATA**

Rob Ragsdale, Ami Kang, Jeff de La Beaujardiere, and Charles Alexander, NOAA  
Integrated Ocean Observing Systems

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

Georgian

**CLIMATE CHANGE ON THE COAST: PLAN TODAY TO  
ADAPT TOMORROW**

Moderator: Matt Gove, NOAA Office of Ocean and Coastal Resource Management

**CHALLENGES FOR COASTAL MANAGERS IN DEVELOPING ADAPTATION PLANS**

Julia Wyman, Coastal States Organization

**MAINSTREAMING ADAPTATION – APPLYING A CLIMATE “LENS” TO  
COASTAL MANAGEMENT**

Pam Rubinoff, Rhode Island Sea Grant, Coastal Resources Center

**DESIGNING FOR RISING TIDES: RESULTS OF AN INTERNATIONAL COMPETITION FOR IDEAS  
RESPONDING TO SEA LEVEL RISE IN SAN FRANCISCO BAY AND BEYOND**

Brad McCrea, San Francisco Bay Conservation and Development Commission

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

Stanbro

**POLICY AND PLANNING STRATEGIES SUPPORTING THE FUTURE OF  
OCEAN MANAGEMENT**

Moderator: Dale Blanton, Oregon Coastal Management Program

**THE RHODE ISLAND OCEAN SPECIAL AREA MANAGEMENT PLAN**

Jennifer McCann, University of Rhode Island, Coastal Resources Center

**NORTH CAROLINA’S EMERGING OCEAN POLICY CHALLENGES**

Lisa C. Schiavinato, North Carolina Sea Grant and North Carolina Coastal Resources  
Law, Planning, and Policy Center; Joseph K. Kalo, University of North Carolina School  
of Law and North Carolina Coastal Resources Law, Planning, and Policy Center

**COASTAL SPATIAL PLANNING OF UNINHABITED ISLANDS IN KOREA**

Jungho Nam, Keun-Hyung Yook, and Heejung Choi, Ocean and Coastal Policy Research  
Department, Korea Maritime Institute; Daeseok Kang, Department of Ecological  
Engineering, Pukyong National University

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

Terrace

**COASTAL FLOODING: IDENTIFYING AND ASSESSING CURRENT AND FUTURE RISKS**

Moderator: Mark Crowell, Federal Emergency Management Agency

**AN ESTIMATE OF THE U.S. POPULATION SUBJECT TO THE ONE-PERCENT ANNUAL CHANGE (100-YEAR) COASTAL FLOOD HAZARD**

Mark Crowell, Federal Emergency Management Agency; Kevin Coulton, Watershed Concepts, AECOM Water

**RISK REDUCTION MEASURES FOR REDUCING IMPACTS OF COASTAL STORMS ON THE BUILT ENVIRONMENT**

John Ingargiola, Federal Emergency Management Agency

**EVALUATING THE IMPACT OF CLIMATE CHANGE ON THE NATIONAL FLOOD INSURANCE PROGRAM**

David Divoky, Watershed Concepts, AECOM Water; Mark Crowell, Federal Emergency Management Agency

**IMPROVING FEMA'S COASTAL FLOODPLAIN MAPPING: PRIMARY FRONTAL DUNE AND COASTAL ZONE ASSESSMENTS FOR THE NFIP**

Jonathan E. Westcott, P.E., Federal Emergency Management Agency; Darryl Hatheway, AECOM Water

## **WEDNESDAY, JULY 22**

**2:00 to 4:30 p.m.**

St. James

### **CAFÉ CONVERSATION: BUILDING COLLABORATION BETWEEN COASTAL MANAGEMENT AND FEMA'S COMMUNITY RATING SYSTEM: CHANGING THE COASTAL ELEMENTS**

Leader: Bill Lesser, Federal Emergency Management Agency

The Community Rating System (CRS) is a voluntary program which encourages communities that participate in the National Flood Insurance Program (NFIP) to implement floodplain management techniques that are above the minimum NFIP standards. There are many overlaps between CRS standards and coastal zone management principles, including maintaining coastal floodplains in a natural, undeveloped state, implementing erosion-based coastal development setback programs, greater protection of coastal dunes, and requiring disclosure of coastal flood risks in real estate transactions. Currently, these and other CRS coastal elements are being revised, and this café conversation, led by FEMA and NOAA officials, will provide a forum for coastal managers to provide meaningful input on how the CRS should be revised to encourage more progressive coastal floodplain management. Participants will hear an overview of the CRS and the specific coastal elements, and then, aided by facilitators, will break into small groups to discuss and decide on specific recommendations. Output from this session will be collected by FEMA for inclusion in the revised CRS coastal standards.

**2:00 to 4:30 p.m.**

Stuart

### **CAFÉ CONVERSATION: BUILDING IN CLIMATE CHANGE EFFECTS TO URBAN WATERFRONT DEVELOPMENT POLICIES**

Leader: Leslie-Ann McGee, Waquoit Bay National Estuarine Research Reserve

Now that most Americans understand that coastal areas will feel effects of climate change such as relative sea level rise and increased frequency and intensity of storms despite future mitigation efforts, it is time to build consideration of these effects into urban waterfront planning policies. Climate change adaptation will require the production or packaging of scientific data, risk and socio-economic assessments, mapping and modeling, science transfer to policy, planning, technical capacity, and coalition-building, as well as regulatory and technical tools for implementation strategies. Results of this conversation will be recommendations of practical procedures and means for taking climate change into account in urban planning and impact assessment.

**2:00 to 4:30 p.m.**

Thoreau

**CAFÉ CONVERSATION: HOW CAN GEOSS CONNECT COASTAL ZONE OBSERVATIONS WITH COASTAL ZONE CONCERNS?**

Leader: Joshua Lieberman, Ph.D., Traverse Technologies/Open Geospatial Consortium

Coastal zones in many ways epitomize the interoperability issues that the Global Earth Observation System of Systems (GEOSS) must overcome to realize its mission. Participants in this café conversation will be challenged to pose questions of Earth observation interoperability, comparability, discovery, and integration, and then consider how these questions can be addressed by developing specific capabilities within the framework provided by GEOSS. This is an opportunity for the coastal zone community to both learn more about GEOSS and provide feedback at a critical early phase of operational deployment.

**2:00 to 4:30 p.m.**

White Hall

**CAFÉ CONVERSATION: MASSACHUSETTS OCEAN MANAGEMENT PLANNING**

Leader: Stephanie Moura, Massachusetts Ocean Partnership

While the ink is still drying on Massachusetts' first-in-the-nation draft integrated ocean management plan, join the Executive Office of Energy and Environmental Affairs and the Massachusetts Ocean Partnership for an interactive dialogue about the commonwealth's ocean management planning experience. Discussion will highlight key challenges and lessons learned in three core aspects: science integration, stakeholder engagement, and the public-private collaboration model. Participants will come away with pragmatic information to support their own marine spatial planning work and will connect with colleagues facing similar challenges.

**2:00 to 4:30 p.m.**

Whittier

**CAFÉ CONVERSATION: THE NEXT GENERATION OF COASTAL MANAGEMENT: BUILDING LEADERSHIP CAPACITY**

Leader: Corey Riley, NOAA Office of Ocean and Coastal Resource Management, Cooperative Institute for Coastal and Estuarine Environmental Technology

This café conversation will build upon a session from Coastal Zone 07, which discussed how to transition to a new generation of coastal managers. Participants will identify actions to help solve the common gaps and challenges. Breakout groups led by facilitators from academia, government, and nonprofit organizations will contribute practical ideas to make clear progress on addressing topics such as establishing leadership fellowships or mid-career training opportunities; working with academic programs to ensure the essential skills identified are taught to graduate students; providing support to ensure effective succession planning; and identifying useful networking tools to address workforce management needs, etc. Facilitators and key partners will lead the generation

of action items and identification of next steps and responsible parties. This café conversation will be a working session to move the important dialogue about the future of coastal management into actionable steps and clear outcomes.

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

Arlington

**SPATIAL DATA AND TOOLS OF THE TRADE**

Moderator: Chris Kinkade, NOAA Coastal Services Center

**OCEAN INFORMATION PRODUCTS IN SUPPORT OF OREGON'S MARINE SPATIAL PLANNING PROCESSES**

Andy S. Lanier, Oregon Department of Land Conservation and Development

**COASTAL RESILIENCE: USING MARINE SPATIAL PLANNING TO SUPPORT MANAGEMENT DECISIONS THAT ADDRESS THE NEEDS OF NATURAL AND HUMAN COMMUNITIES**

Zach Ferdana, The Nature Conservancy

**MARINE SPATIAL PLANNING IN CALIFORNIA: THE USE OF COMMON MAPPING AND DATA GATHERING PROTOCOLS TO IMPROVE AGENCY COORDINATION**

Matthew Armsby, Caitlin Crain, and Margaret Caldwell, Center for Ocean Solutions; Ben Halpern, National Center for Ecological Analysis and Synthesis; Fiorenza Micheli, Hopkins Marine Station, Stanford University; Deborah Sivas, Stanford Law School

**THE HUMAN DIMENSION IN WATERWAY RESOURCE MANAGEMENT: THE FLORIDA PERSPECTIVE**

Charles Sidman and Russell Watkins, Florida Sea Grant College Program; William Sargent, Florida Fish and Wildlife Conservation Commission; Robert Swett, School of Forest Resources and Conservation, University of Florida; Laila Racevskis, Food and Resource Economics Department, University of Florida

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

Berkeley/Clarendon

**WORKING TOGETHER FOR HABITAT RESTORATION IN THE NARROW RIVER (PETTAQUAMSCUTT RIVER ESTUARY)**

Moderator: Veronica M. Berounsky, Graduate School of Oceanography, University of Rhode Island

WHAT YOU CAN LEARN FROM A WATERSHED ASSOCIATION, VOLUNTEER MONITORS, AND GRADUATE STUDENTS: GRASS ROOTS MONITORING RESULTS AND THE CALL FOR RESTORATION IN THE NARROW RIVER (PETTAQUAMSCUTT ESTUARY) IN RHODE ISLAND  
Veronica M. Berounsky, Graduate School of Oceanography, University of Rhode Island

**THE STATE'S ROLE IN RESTORING THE NARROW RIVER**

Elizabeth Scott, Rhode Island Department of Environmental Management, Office of Water Resources

**NARROW RIVER STORMWATER ABATEMENT STUDY AND IMPLEMENTATION**

M. James Riordan, AICP, Fuss & O'Neill, Inc.

**PLANNING ESTUARINE ECOSYSTEM RESTORATION IN THE NARROW RIVER**

Lawrence R. Oliver, U.S. Army Corps of Engineers, New England District

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

Georgian

**THE STORMSMART NETWORK: HOW LOCAL ACTION ACROSS THE U.S.  
IS PREPARING COMMUNITIES FOR CLIMATE CHANGE**

Moderator: Julia Knisel, Massachusetts Office of Coastal Zone Management

**NO ADVERSE IMPACTS AND HOW IT APPLIES TO DECISION-MAKERS DEALING WITH  
FLOODPLAINS AND CLIMATE CHANGE**

Edward A. Thomas, Esq., Michael Baker Jr., Inc.

**HOW MASSACHUSETTS' COMMUNITIES ARE GETTING READY FOR CLIMATE  
CHANGE IMPACTS**

Daniella Hirschfeld, Massachusetts Office of Coastal Zone Management

**CREATING A NETWORK – LINKING LOCAL CHANGE**

Wesley Shaw, Blue Urchin Consulting

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

Stanbro

**EDUCATION AND CAPACITY BUILDING IN COASTAL COMMUNITIES**

Moderator: Kris Tronvig, NOAA Center for Operational Oceanographic Products  
and Services

**ADAPTIVE TRAINING METHODOLOGIES FOR DYNAMIC COASTAL COMMUNITIES**

Lisa Auermuller, Jacques Cousteau National Estuarine Research Reserve; Rebekah  
Walker-Szivak, ACE Basin National Estuarine Research Reserve

**CONNECTING MORE EFFECTIVELY WITH THE PUBLIC FOR OCEAN LITERACY AND  
CONSERVATION: FINDINGS FROM THE OCEAN PROJECT NATIONAL SURVEY**

Bill Mott, The Ocean Project

**COASTAL PLANNING IN AMERICAN SAMOA THROUGH INNOVATION, EDUCATION, EROSION  
HAZARD ANALYSIS, AND SEDIMENT MANAGEMENT**

Jessica H. Podoski and Thomas D. Smith, U.S. Army Corps of Engineers,  
Honolulu District

**WATER, PEOPLE, AND NATURE IN A TANZANIAN COASTAL WATERSHED: FOSTERING  
ECOSYSTEM AND SOCIAL TIES**

Donald D. Robadue, Jr., and Jim Tobey, University of Rhode Island; Appa Mandari and  
Jeremiah Daffa, Tanzania Coastal Management Partnership

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

Terrace

**INTRODUCING THE INTERNATIONAL COASTAL ATLAS  
NETWORK (ICAN)**

Moderator: Dawn Wright, Oregon State University

**OPENING REMARKS: OVERVIEW AND HISTORY OF ICAN**

Dawn Wright, Oregon State University

**U.S. WEST COAST PERSPECTIVE ON ICAN**

Tanya Haddad, Oregon Coastal Management Program

**U.S. EAST COAST PERSPECTIVE ON ICAN**

Marcia Berman, Virginia Institute of Marine Science

**U.S. GREAT LAKES PERSPECTIVE ON ICAN**

David Hart, University of Wisconsin Sea Grant Institute

**ICAN AND THE DIGITAL COAST INITIATIVE**

Tony LaVoi, NOAA Coastal Services Center

**VOICING CONCERNS ABOUT REGIONAL CLIMATE IMPACTS AND COMMUNITY  
VULNERABILITY ON THE OREGON COAST**

Tim Nyerges, University of Washington

## **WEDNESDAY, JULY 22**

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

Arlington

### **TECHNOLOGY AND PARTNERSHIPS IN CORAL REEF MANAGEMENT**

Moderator: April Turner, South Carolina Sea Grant Consortium

#### **BLENDING SPACE-BASED TECHNOLOGY WITH COMMUNITY-BASED KNOWLEDGE TO ADDRESS CORAL REEF MANAGEMENT**

Jamie Carter, The Baldwin Group at the NOAA Pacific Services Center; Dave Eslinger, NOAA Coastal Services Center; Danielle Bamford, The Baldwin Group at the NOAA Coastal Services Center; Christine Feinholz, I.M. Systems Group at the NOAA Pacific Services Center; Chris Robinson and Keil Schmid, I.M. Systems Group at the NOAA Coastal Services Center

#### **ASSESSING THE EFFECTS OF AGRICULTURAL CONSERVATION PRACTICES ON A CORAL REEF ECOSYSTEM: A NOAA AND USDA PARTNERSHIP**

Adam G. Zitello, David R. Whitall, Ph.D., Mark E. Monaco, Ph.D., and John D. Christensen, NOAA National Centers for Coastal Ocean Science, Center for Coastal Monitoring and Assessment

#### **TWO SAMOAS: TAKING AN ARCHIPELAGO-WIDE APPROACH TO ADDRESSING MANAGEMENT AND CONSERVATION ISSUES**

Doug Harper, American Samoa Department of Commerce

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

Berkeley/Clarendon

### **INTEGRATED COASTAL MANAGEMENT: LESSONS LEARNED**

Moderator: Nell Codner, NOAA Coastal Services Center

#### **SMALL ISLAND PLANNING – INTEGRATING CZM IN PARADISE**

Steve Tilley, Zoning Office, Saipan, Commonwealth of the Northern Mariana Islands

#### **ECUADOR'S COASTAL RESOURCES MANAGEMENT PROGRAM (1985-2008): TWO DECADES OF INTEGRATED COASTAL MANAGEMENT AND LESSONS LEARNED**

Maria D. Herrera, Graduate School of Oceanography, Coastal Resources Center, University of Rhode Island; Eduardo F. Molina, Ecuador Coastal Management Program (PRMC), Ministerio del Ambiente

#### **LAND ACQUISITION AS A TOOL FOR EROSION, SEA-LEVEL RISE AND CLIMATE CHANGE PROBLEMS: EBRO DELTA CASE STUDY**

Jordi Galofré, Ministry of the Environment and Rural and Marine Affairs, Spain

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

Georgian

**COLLABORATIVE APPROACHES TO REGIONAL OCEAN GOVERNANCE**

Moderator: Tricia Ryan, NOAA Coastal Services Center

**REGIONAL OCEAN GOVERNANCE: LEVERAGING THE EFFORTS**

Robbin E. Peach, McCormack Graduate School of Policy Studies, University of Massachusetts, Boston; Michael K. Orbach, School of the Environment and Earth Sciences, Duke University

**COASTAL AND ECOSYSTEM RESTORATION IN COMPLEX MULTI-JURISDICTIONAL SETTINGS: CASE STUDIES IN INSTITUTIONAL INNOVATION**

Michael J. Donahue, Ph.D., National Coastal and Ecosystem Restoration Practice, URS Corporation

**AN ACTION PLAN TO ADDRESS SUSTAINABLE ECONOMIC DEVELOPMENT IN COASTAL COMMUNITIES: IMPLEMENTATION OF THE WEST COAST GOVERNORS' AGREEMENT ON OCEAN HEALTH**

Lynn Longan, Washington Community, Trade and Development; Chris Claflin, Oregon Economic and Community Development Department; Mary Small, California Coastal Conservancy; Stephen Freese, Ph.D., NOAA National Marine Fisheries Service; Valerie Termini, California Ocean Protection Council

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

Stanbro

**TOOLS AND APPROACHES FOR ENVIRONMENTAL RESTORATION**

Moderator: Hunt Durey, Massachusetts Office of Coastal Zone Management

**MAPPING THE POTENTIAL DISTRIBUTION OF SHALLOW SUBTIDAL EELGRASS IN THE GREATER PUGET SOUND REGION OF WASHINGTON STATE**

Jeremy Davies, Anne Guerry, and Mary Ruckelshaus, Northwest Fisheries Science Center, NOAA Fisheries

**RESTORATION OF TIDALLY RESTRICTED SALT MARSHES AT RUMNEY MARSH, REVERE, MASSACHUSETTS: BALANCING FLOOD PROTECTION WITH MARSH RESTORATION BY USE OF SELF-REGULATING TIDEGATES**

Edward L. Reiner, U.S. Environmental Protection Agency, New England District

**CLASSIFYING SOUTH CAROLINA'S COASTAL WATERBODIES FOR ADDITIONAL PROTECTION**  
Shawn Kiernan, AICP, South Carolina Department of Health and Environmental Control, Office of Ocean and Coastal Resource Management; Rob Hudson, AICP, GISP, Photo Science, Inc.

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

Terrace

**ECOLOGICAL FORECASTING: PROVIDING PREDICTIONS FOR  
ECOSYSTEM-BASED MANAGEMENT**

Moderator: Elizabeth Turner, NOAA National Ocean Service

TOWARDS THE FUTURE OF ENVIRONMENTAL MODELING AT NOAA: INCLUDING  
MARINE ECOLOGICAL FORECASTING

Marie Colton, Ph.D., NOAA Great Lakes Environmental Research Lab

FORECASTING TO MANAGE: SUCCESSES AND CHALLENGES OF A COLLABORATORY FOR THE  
COLUMBIA RIVER ESTUARY AND PLUME

Antonio Baptista, Ph.D., Science and Technology Center for Coastal Margin Observation

MODELING THE GULF OF MAINE FOR ECOSYSTEM-BASED MANAGEMENT

Robert Beardsley, Ph.D., Woods Hole Oceanographic Institute