

TUESDAY, JULY 21

9:00 to 11:30 a.m.

St. James

CAFÉ CONVERSATION: CREATING MORE EFFECTIVE EDUCATION AND OUTREACH

Leaders: Scott Stafford and Christine Brittle, The Baldwin Group, Inc.

This café conversation will bring together coastal managers and others engaged in educational and outreach activities to discuss current audiences, techniques, successes, and challenges. Attendees will collectively develop a catalogue of outreach tools in use and discuss innovative and noteworthy approaches to engage particular audiences. The discussion will aim to uncover new ways that coastal managers can support one another as they develop and implement outreach and education efforts. All participants will brainstorm and learn from one another with the assistance of two co-facilitators.

9:00 to 11:30 a.m.

Stuart

CAFÉ CONVERSATION: COASTAL SMART GROWTH AND RESILIENCE

Leader: Sarah van der Schalie, NOAA Office of Ocean and Coastal Resource Management

During the Smart Growth and Resilience café conversation, participants will engage in discussions on how communities can integrate smart growth, hazard resilience, and climate change into community planning. Case studies will be used to generate a list of ideas and recommendations on how coastal communities can improve their resilience using techniques within the “Waterfront and Coastal Smart Growth Elements” and other coastal management approaches.

9:00 to 11:30 a.m.

Thoreau

CAFÉ CONVERSATION: MAPPING FOR MANAGERS: BRIDGING THE GAP BETWEEN DATA AND INFORMATION

Leader: Drew Carey, CoastalVision

The goal of this café conversation is to clarify the spatial information needs of ocean planning initiatives. This session will bring ocean mappers, data classifiers, and ocean managers together to identify problems, define gaps between data and information needs, and outline potential solutions. Invited participants will represent a range of geography and experience in each of the stages of developing map-based ocean governance tools. The session will be structured to involve the audience and invited participants to define their needs and identify approaches to narrowing the gap between mapping ocean data and information requirements of managers.

9:00 to 11:30 a.m.

White Hall

CAFÉ CONVERSATION: REGIONAL OCEAN GOVERNANCE: FACING THE CHALLENGES OF REGIONAL COLLABORATION

Leader: Kathleen Leyden, Maine Coastal Program

Participants in this session will be given the opportunity to discuss their experiences with regional ocean governance initiatives, including successes, challenges, and lessons learned. Participants will be asked to agree on three to five top challenges to managing ocean and coastal resources at a regional scale. Using facilitated break-out sessions, participants will work together to develop strategies that address these challenges and will share their plans for bringing these strategies back to their regions.

9:00 to 11:30 a.m.

Whittier

CAFÉ CONVERSATION: COASTAL MANAGEMENT INFORMATION NEEDS IN A CHANGING CLIMATE: CHALLENGES AND OPPORTUNITIES

Leader: Eileen Shea, NOAA National Climatic Data Center

This café conversation will provide an opportunity for coastal managers and other conference participants to contribute to the efforts of the NOAA National Environmental Satellite, Data, and Information Service's National Climatic Data Center (NCDC) to identify and respond to critical needs for climate information to enhance the resilience of coastal communities. Using both small-group and plenary discussions, participants will engage in a facilitated discussions on climate-related challenges, including information gaps, data products, and information services needed, as well as NCDC's and NOAA's roles in providing them.

9:00 to 10:00 a.m.

Arlington

EDUCATING AND INSPIRING COASTAL COMMUNITIES

Moderator: Carole McCauley, Massachusetts Office of Coastal Zone Management

COMMUNITY EDUCATION AND RESPONSIBLE COASTAL ZONE USE

Shannan Lewinski, I.M. Systems Group at the NOAA Pacific Services Center

CLIMATE AS COMMON GROUND: OUTREACH, EDUCATION AND RESEARCH WITH RELIGIOUS COMMUNITIES TO ENHANCE LITERACY AND STEWARDSHIP IN THE WAQUOIT BAY AREA

Lisa Greber and Anamarija Frankic, University of Massachusetts, Boston; Joan Muller, Waquoit Bay National Estuarine Research Reserve

DEVELOPING AWARENESS OF THE COASTLINE FOR FAMILIES THROUGH USES OF SONG AND STORY

Karen Melander-Magoon, D. Min, Bridget Fanning-Ono, Psy. D.

9:00 to 10:00 a.m.

Berkeley/Clarendon

COASTAL MANAGEMENT POLICY AND LEGISLATION I

Moderator: John Weber, Massachusetts Office of Coastal Zone Management

MARINE CONSERVATION AGREEMENTS – A PRACTITIONER’S TOOLKIT:

WWW.MCATOOLKIT.ORG

Jay Udelhoven, The Nature Conservancy

IS ‘COASTALITY’ ABLE TO CATCH THE WAVE OF CHANGE ALONG COASTAL ABIOTIC ENVIRONMENT, AT LOCAL LEVEL?

John Kiousopoulos, Spatial Analysis Laboratory, Technological Educational Institute of Athens

9:00 to 10:00 a.m.

Georgian

HOLDING THE HIGH GROUND: COASTAL HABITAT IN A CHANGING CLIMATE

Moderator: Pat Montanio, NOAA National Marine Fisheries Service, Office of Habitat Conservation

Panelists:

Bruce Stein, National Wildlife Federation

Nadine Hitchcock, California State Coastal Conservancy (*invited*)

Catherine McCall, Maryland Chesapeake and Coastal Program (*invited*)

9:00 to 10:00 a.m.

Stanbro

MANAGING BEACH AND SHOREFRONT DEVELOPMENT

Moderator: Josh Lott, NOAA Office of Ocean and Coastal Resource Management

MANAGING BEACH AND SHOREFRONT DEVELOPMENT

Christa Rabenold and Josh Lott, NOAA Office of Ocean and Coastal Resource Management

MAPPING OUR WAY TO COASTAL ZONE MANAGEMENT: NEW JERSEY COASTAL MANAGEMENT PROGRAM’S USE OF MAPPED PRODUCTS TO MAKE LAND USE AND REGULATORY DECISIONS

Dorina Frizzera, AICP, and John R. D’Agostino, New Jersey Department of Environmental Protection, Coastal Management Office

A PROGRESSIVE, BALANCED COASTAL CONSTRUCTION SETBACK ORDINANCE ON THE ISLAND OF KAUAI, HAWAII: IMPLEMENTATION AND LESSONS LEARNED

James F. O’Connell, University of Hawaii Sea Grant College Program, Kauai, Hawaii; Dolan Eversole, University of Hawaii Sea Grant College Program, Oahu, Hawaii; Zoe Norcross-Nu’u, University of Hawaii Sea Grant College Program, Maui, Hawaii

9:00 to 10:00 a.m.

Terrace

MONITORING AND FORECASTING COASTAL STORM HAZARDS

Moderator: Patricia Bowie, New York Department of State, Division of Coastal Resources

**FORECASTING OF DAMAGE LEVEL OF MARITIME STRUCTURES CAUSED BY TYPHOONS
BASED ON CENTRAL PRESSURE METHOD**

Ryusuke Hashimura, Sojo University, Department of EcoDesign, Japan

**DETERMINING THE EFFECTS OF BARRIER ISLAND DEGRADATION/RESTORATION IN TERMS
OF STORM INTENSITY AND TRACK**

Tate McAlpin, Alison Sleath Grzegorzewski, and Mary Cialone, U.S. Army Corps of Engineers, Coastal and Hydraulics Laboratory

**MONITORING THE EFFECTS OF CHANGING MANAGEMENT PRACTICE ON THE EVOLUTION OF
A MIXED GRAVEL AND SAND BARRIER BEACH**

Andrew P. Bradbury, Channel Coastal Observatory, United Kingdom

TUESDAY, JULY 21

10:30 to 11:30 a.m.

Arlington

HARMFUL ALGAL BLOOMS MONITORING AND MANAGEMENT

Moderator: Mary Culver, NOAA Coastal Services Center

TRANSFERRING NEW TECHNOLOGIES TO COASTAL MANAGERS: PROGRESS IN MONITORING AND MANAGEMENT FOR HARMFUL ALGAL BLOOMS

Marc Suddleson and Danielle Luttenberg, NOAA Center for Sponsored Coastal Ocean Research

MONITORING TOXIC ALGAE IN THE PUGET SOUND USING QUANTITATIVE PCR

Sonya T. Dyhrman and Sheean T. Haley, Woods Hole Oceanographic Institution; Jerry A. Borchert, Washington State Department of Health, Shellfish Program; Bob Lona, Washington State Department, Marine Biotoxin Unit; Deana L. Erdner, University of Texas at Austin, Marine Science Institute

CRYPTIC BLOOMS: ARE THIN LAYERS THE MISSING CONNECTION?

Margaret A. McManus, Ph.D., and Grieg F. Steward, Ph.D., University of Hawaii at Manoa, Department of Oceanography; Raphael M Kudela, Ph.D., and Mary W. Silver, Ph.D., University of California Santa Cruz, Ocean Sciences Department; Percy L. Donaghay, Ph.D., and James M. Sullivan, Ph.D., University of Rhode Island, Graduate School of Oceanography

10:30 to 11:30 a.m.

Berkeley/Clarendon

COASTAL MANAGEMENT POLICY AND LEGISLATION II

Moderator: Bruce Carlisle, Massachusetts Office of Coastal Zone Management

WATER QUALITY TRADING: LEGAL HURDLES AND SCIENTIFIC CHALLENGES

Stephanie Showalter, National Sea Grant Law Center, University of Mississippi

USING APPROPRIATE ESTUARINE SHORELINE STABILIZATION METHODS THROUGH POLICY REVISIONS AND EDUCATION IN NORTH CAROLINA

Bonnie M. Bendell, North Carolina Division of Coastal Management

10:30 to 11:30 a.m.

Georgian

COASTAL HAZARD PREPAREDNESS AND MITIGATION

Moderator: Matt Nixon, Maine Coastal Program

FEMA'S COMMUNITY RATING SYSTEM IN THE COASTAL ZONE

Josh Lott and Christa Rabenold, NOAA Office of Ocean and Coastal Resource Management; Bill Lesser, Federal Emergency Management Agency; Berry Williams, Berry A. Williams & Associates, Inc.

**EFFECTIVE PARTNERING TO MANAGE OCEAN RESOURCES AND MITIGATE
COASTAL HAZARDS**

Marnie Meyer and Ann Ogata-Deal, Hawaii Coastal Zone Management Program

**AFTER THE HURRICANES: PUBLIC RISK ASSESSMENTS AND POLICY SUPPORT IN THE
U.S. GULF COAST**

Hyung Sam Park, Ph.D., and Arnold Vedlitz, Ph.D., Institute for Science,
Technology, and Public Policy, Bush School of Government and Public Service,
Texas A&M University

10:30 to 11:30 a.m.

Stanbro

**ENGAGING COMMUNITIES TO PROMOTE HEALTHIER
COASTAL ENVIRONMENTS**

Moderator: Hanna Goss, NOAA Coastal Services Center

**VOLUNTEER WATER QUALITY MONITORING AND ITS IMPACT ON CHANGING
COASTAL COMMUNITIES**

Erin Jackson, Department of Marine Affairs, University of Rhode Island

**A NEIGHBORHOOD NON-PROFIT'S EFFORT TO IMPROVE HARBOR WATER QUALITY
THROUGH THE INTRODUCTION OF OYSTERS VIA SURFACE DISBURSAL**

Andrew T. Jay, Massachusetts Oyster Project for Clean Water

**SCIENCE IN AID OF A COMMUNITY ADAPTING TO AN UNEXPECTED NEW TIDAL INLET:
CHATHAM, MASSACHUSETTS**

Graham S. Giese, Provincetown Center for Coastal Studies; Theodore L. Keon, Town of
Chatham, Massachusetts; Mark B. Adams, Cape Cod National Seashore, National Park
Service

10:30 to 11:30 a.m.

Terrace

REDUCING RUNOFF TO IMPROVE WATER QUALITY

Moderator: Arlene O'Donnell, Eastern Research Group, Inc.

IT'S A SHORE THING – THE U.S. EPA NEW ENGLAND BEACH STRATEGY

Matthew Liebman and Caitlyn Hunt, U.S. Environmental Protection Agency,
New England

REDUCING SOIL AND NUTRIENT RUNOFF WITH CONSERVATION BUFFERS

Fred L. Snyder, Ohio Sea Grant Extension, Ohio State University; Steve Davis, Natural
Resources Conservation Service, U.S. Department of Agriculture; Ed Crawford, Division
of Soil and Water Conservation, Ohio Department of Natural Resources; Jeff Mitchell,
Farm Service Agency

Proceedings of Coastal Zone 09
Boston, Massachusetts
July 19 to 23, 2009

**BIOECONOMIC ANALYSIS OF NUTRIENT REDUCTION STRATEGIES IN THE LOWER
MISSISSIPPI RIVER BASIN TO ADDRESS HYPOXIA IN THE NORTHERN GULF OF MEXICO**
John V. Westra and Augustus Matekole, Louisiana State University

TUESDAY, JULY 21

1:00 to 2:30 p.m.

Arlington

SMART GROWTH AT THE WATER'S EDGE: WATERFRONT AND COASTAL COMMUNITY SMART GROWTH

Moderator: Lynn Desautels, U.S. Environmental Protection Agency, Smart Growth Program

COASTAL AND WATERFRONT SMART GROWTH ELEMENTS

Kenneth Walker, NOAA Office of Ocean and Coastal Resource Management

MAKING THE COASTAL SMART GROWTH CONNECTION TO LOCAL CLIMATE CHANGE ADAPTATION A REALITY IN MASSACHUSETTS

Andrea Cooper, Massachusetts Office of Coastal Zone Management

DENNIS, MASSACHUSETTS, SMART GROWTH INITIATIVES: FROM THE SHORELINE TO THE VILLAGES

Daniel Fortier, AICP, Town of Dennis, Massachusetts

1:00 to 2:30 p.m.

Berkeley/Clarendon

TOXIC CONTAMINANTS: ENVIRONMENTAL ASSESSMENTS AND HUMAN INTERACTION

Moderator: Christian Krahforst, Massachusetts Office of Coastal Zone Management

CHARACTERIZING SOCIAL DISRUPTION FROM OIL SPILLS AND SPILL RESPONSE

Thomas Webler, Seth Tuler, and Fabienne Lord-Fonseca, Social and Environmental Research Institute

A CONTAMINANT ASSESSMENT OF VIEQUES, PUERTO RICO

David Whitall, NOAA National Centers for Coastal Ocean Science, Center for Coastal Monitoring and Assessment

LAND USE AND THE SPATIAL DISTRIBUTION OF LIPOPHILIC CONTAMINANTS AS MEASURED IN THE BLUBBER OF BOTTLENOSE DOLPHINS (*TURSIOPS TRUNCATUS*)

Jeffrey Adams, Todd Speakman, Eric Zolman, and Patricia Fair, NOAA National Centers for Coastal Ocean Science; Gregory Bossart, Harbor Branch Oceanographic Institute

CONTAMINANTS IN EGGS OF MARINE AND ESTUARINE BIRDS COMPARED TO BIRDS IN LACUSTRINE, RIVERINE, TERRESTRIAL HABITATS, MAINE U.S.A.

Wing Goodale and David Evers, BioDiversity Research Institute; Steve Mierzykowski, U.S. Fish and Wildlife Service, Maine Field Office; Brad Allen and Charlie Todd, Maine Department of Inland Fisheries and Wildlife; Linda Welch, U.S. Fish and Wildlife Service, Maine Coastal Islands National Wildlife Refuge; Scott Hall, National Audubon Society; Julie C. Ellis, Tufts University, Cummings School of Veterinary Medicine;

Kurunthachalam Kannan, Wadsworth Center, New York State Department of Health;
Robert Michener, Boston University Stable Isotope Laboratory

1:00 to 2:30 p.m.

Georgian

REGIONAL OCEAN GOVERNANCE: PROGRESS TOWARD ECOSYSTEM-BASED MANAGEMENT IN SELECTED MULTI-STATE APPROACHES

Moderator: Laura Cantral, Meridian Institute, Joint Ocean Commission Initiative

MARINE ECOSYSTEM-BASED MANAGEMENT IMPLEMENTATION

Kathryn Mengerink, Environmental Law Institute

NORTHEAST REGIONAL OCEAN COUNCIL

Kathleen Leyden, Maine Coastal Program

WEST COAST GOVERNORS' AGREEMENT ON OCEAN HEALTH

Brian Baird, California Resources Agency

GULF OF MEXICO ALLIANCE

William W. Walker, Mississippi Department of Marine Resources

1:00 to 2:30 p.m.

Stanbro

MARINE DEBRIS REGIONAL ISSUES AND ACTION PLANS: A ROADMAP TO SUCCESS

Moderator: Holly Bamford, NOAA Marine Debris Program

ADDRESSING MARINE DEBRIS IN HAWAII: A DYNAMIC STATEWIDE ACTION PLAN

Carey Morishige and Kris McElwee, I.M. Systems Group, NOAA Marine Debris Program

AN ACTION PLAN TO ADDRESS MARINE DEBRIS IN THE WEST COAST: AN IMPLEMENTATION OF THE WEST COAST GOVERNORS' AGREEMENT ON OCEAN HEALTH

Nir Barnea, NOAA Marine Debris Program; Eben Schwartz, California Coastal Commission; John Hansen, Washington Department of Natural Resources; Cyreis Schmitt, Oregon Department of Fish and Wildlife

MARINE DEBRIS WORK IN ALASKA

Erika Ammann, NOAA Fisheries

1:00 to 2:30 p.m.

Terrace

DECISION-SUPPORT TOOLS FOR COASTAL HAZARDS

Moderator: Audra Luscher, NOAA Coastal Services Center

[NOAA'S NORTH ATLANTIC REGIONAL TEAM WORKS TO ENHANCE VISUALIZATION OF COASTAL INUNDATION ALONG THE NEW ENGLAND COAST](#)

Matthew Pendleton and Doug Marcy, NOAA Coastal Services Center

[CONNECTICUT COASTAL HAZARDS DATA PORTAL AND VISUALIZATION TOOL](#)

Joel Johnson, Connecticut Department of Environmental Protection, Office of Long Island Sound Programs

[USING THE SLAMM MODEL FOR PREDICTING MARSH RESPONSE TO SEA LEVEL RISE](#)

Robert W. Scarborough, Ph.D., and David B. Carter, Delaware Department of Natural Resources and Environmental Control, Delaware Coastal Programs

[USING CANVIS TO VISUALIZE COASTAL HAZARDS](#)

Hansje Gold-Krueck, The Baldwin Group at the NOAA Coastal Services Center

TUESDAY, JULY 21

3:00 to 4:30 p.m.

Arlington

DEVELOPMENT OF WAVE ENERGY IN OREGON, U.S.A.

Moderator: Holly V. Campbell, JD LLM, Oregon State University

OREGON MARINE ENERGY PLANNING

Holly V. Campbell, JD LLM, Oregon State University

**CATCHING FISHERMEN – ENGAGING COASTAL COMMUNITIES IN OCEAN
ENERGY DEVELOPMENT**

Kaety Hildenbrand and Flaxen Conway, Oregon Sea Grant

**THE SAN JUAN INITIATIVE: AN ECOSYSTEM APPROACH TO PROTECTING ENVIRONMENT
AND COMMUNITY**

Amy Windrope and Jim Kramer, San Juan Initiative; Pete Stauffer, Surfrider Foundation

**ECOLOGICAL EFFECTS AND RESEARCH NEEDS FOR ALTERNATIVE ENERGY OFF THE
OREGON COAST**

Cathy Tortorici, NOAA National Marine Fisheries Service, Northwest Region

AMENDING THE REGULATORY REGIME FOR OCEAN ENERGY DEVELOPMENT IN OREGON

Paul N. Klarin, Oregon Coastal Management Program

3:00 to 4:30 p.m.

Georgian

**DEPARTMENT OF THE INTERIOR OCEAN AND COASTAL ACTIVITIES
REGIONAL GOVERNANCE**

Moderator: Terry Holman, U.S. Department of the Interior

Panelists:

Terry Holman, U.S. Department of the Interior

Dave Russ, U.S. Geological Survey

Jess Weaver, U.S. Geological Survey

Marvin Moriarty, U.S. Fish and Wildlife Service

Fred Piltz, Minerals Management Service

Leon Carl, U.S. Geological Survey

3:00 to 4:30 p.m.

Stanbro

**BY LAND AND BY SEA: BLENDING SCIENCE, TECHNOLOGY, AND
INFORMATION TO TACKLE MARINE DEBRIS**

Moderator: Holly Bamford, NOAA Marine Debris Program

**INTEGRATING MARINE DEBRIS PREVENTION WITH SOLID WASTE AND
WASTEWATER MANAGEMENT**

Katherine Weiler, Ashley Greene, and Molly Madden, Ocean and Coastal Protection Division, U.S. Environmental Protection Agency

**GULF OF MEXICO MARINE DEBRIS PROJECT: ADDRESSING THE IMPACTS ON COASTAL
COMMUNITIES BY HURRICANES KATRINA AND RITA**

Nir Barnea, NOAA Office of Response and Restoration, Marine Debris Division; Neal Parry, I.M. Systems Group at the NOAA Marine Debris Division; Peter Murphy, Genwest Systems at the NOAA Marine Debris Division

**FROM MARINE DEBRIS EVALUATION TO DEBRIS REMOVAL: THE BENEFIT OF A SOUND
SCIENTIFIC APPROACH**

H. Ward Slacum Jr., Versar Incorporated, Ecological Sciences and Analysis Division; Steve Giordano, NOAA Chesapeake Bay Office; Jay Lazar and David Bruce, Versar, Inc., NOAA Chesapeake Bay Office

**AT-SEA DETECTION OF DERELICT FISHING GEAR: UTILIZING A NOVEL APPROACH TO
COMBAT MARINE DEBRIS**

Kris McElwee and Carey Morishige, I.M. Systems Group at NOAA Marine Debris Program; Kitty Courtney, TetraTech EM Inc.

3:00 to 4:30 p.m.

Terrace

CLIMATE RISKS AND VULNERABILITIES

Moderator: Christine Feurt, Wells National Estuarine Research Reserve

**ANALYZING THE IMPACTS OF SEA-LEVEL RISE ON COASTAL PROPERTY AND
ECOLOGICAL RESOURCES**

Jeremy A. Martinich, U.S. Environmental Protection Agency; Daniel E. Hudgens and Ann Jones, Ph.D., Industrial Economics, Inc.

INCORPORATING THE IMPACTS OF CLIMATE CHANGE INTO COASTAL RISK ASSESSMENTS

Erica L. Harris, Marine Resource Management Program, College of Oceanic and Atmospheric Sciences, Oregon State University; Peter Ruggiero, Ph.D., Department of Geosciences, Oregon State University

**EFFECTS OF LONG-TERM SEA-LEVEL RISE AND TROPICAL STORMS ON COASTAL
COMMUNITIES: AN INTERDISCIPLINARY INTEGRATED ASSESSMENT**

Travis Franck, Joint Program on the Science and Policy of Global Change, Massachusetts Institute of Technology

**IMPACTS OF CLIMATE CHANGE ON SEAPORTS: A SURVEY OF KNOWLEDGE, PERCEPTIONS
AND PLANNING EFFORTS AMONG PORT ADMINISTRATORS**

Austin Becker, School of Earth Sciences, Stanford University; Martin Fischer, Department of Civil and Environmental Engineering, Stanford University; Meg Caldwell,

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Center for Ocean Solutions, Stanford University; Ben Schwegler, Walt Disney
Imagineering Research and Development/Stanford University