



US Army Corps
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ERDC

Engineer Research and
Development Center

Agenda



Coastal Resilience: The Environment, Infrastructure, and Human Systems

21-23 May 2014
New Orleans, Louisiana
Westin Canal Place

Wednesday, 21 May

- 0800 Arrival and registration of participants
0830 **Welcome**, *Dr. Todd S. Bridges, Senior Research Scientist, Environmental Science, USACE Engineer Research and Development Center*
0845 **The Challenge**, *Ms. Roselle Henn, Deputy Director, USACE National Planning Center for Coastal and Storm Risk Management*
0900 **Toward Coastal Resilience**, *Dr. Julie Rosati, Program Manager for the USACE Coastal Inlets Research Program, USACE Engineer Research and Development Center*

Coastal Infrastructure

- 0930 **The Connection of Navigation Infrastructure with the Environment**, *Mr. Jeff Lillycrop, USACE Technical Director for Navigation, USACE Engineer Research and Development Center*
1000 Break
1030 **Flood Risk Management, Climate and the Environment**, *Mr. Bill Curtis, Technical Director for Flood and Coastal, USACE Engineer Research and Development Center*
1100 **The Role of Green Infrastructure in Coastal Systems**, *Mr. Robert Goo, Environmental Protection Specialist, U.S. Environmental Protection Agency, Office of Wetlands, Oceans and Watersheds*
1130 **Natural Infrastructure Supporting Ecosystem Goods and Services**, *Dr. Kelly Burks-Copes, Research Biologist, USACE Engineer Research and Development Center; Dr. Becky Allee, Fisheries Biologist, Regional Coastal Services Division, National Oceanic and Atmospheric Administration*
1200 Lunch

Integrated Approaches

- 1330 **Coastal Development and Restoration in the United Kingdom**, *Dr. Andy Birchenough, Centre for Environment, Fisheries & Aquaculture Science, United Kingdom*
1400 **Building with Nature in the Netherlands**, *Anne-Marie Svoboda, Marine Policy Advisor, Rijkswaterstaat, The Netherlands*
1430 **Building the New Orleans Hurricane and Storm Damage Risk Reduction System amid Louisiana's Coastal Treasures**, *Mr. Mike Park, Chief, USACE Mississippi Valley Division Task Force Hope*
1500 Break
1530 **Use of Natural and Nature-Based Features in the USACE North Atlantic Coast Comprehensive Study**, *Dr. Todd S. Bridges, Senior Research Scientist, Environmental Science, USACE Engineer Research and Development Center*
1600 **Assessing and Managing Consequences Related to Sea Level Rise and Coastal Storms**, *Dr. Greg Kiker, Associate Professor, University of Florida*
1630 **Panel Discussion on Resilient Coastal Systems**
1730 End day 1

Thursday, 22 May

0815 Orientation to the agenda

Regional Applications

0830 **Regional Sediment Management**, *Ms. Linda Lillycrop, Program Manager, USACE Regional Sediment Management Program, USACE Engineer Research and Development Center*

0900 **International Perspectives and Challenges related to Coastal Resilience**, *Mr. Edward Kleverlaan and Mr. Fredrik Haag, International Maritime Organization of the United Nations*

0930 **Shoreline Management in the United Kingdom – A Geomorphological and Risk Management Perspective**, *Dr. Jonathan Simm, Technical Director, Flood Management, HR Wallingford, United Kingdom*

1000 **Coastal Development in South Africa**, *Dr. Steven Weerts, Senior Scientist, Council for Industrial and Scientific Research, South Africa*

1030 Break

1100 **Panel Discussion on Regional and System-Scale Approaches**

1200 Lunch

Restoring and Managing Habitat and Resources

1330 **Restoring Processes and Habitats**, *Dr. Denise Reed, Chief Scientist, The Water Institute of the Gulf, Baton Rouge, Louisiana*

1400 **Developing Resilience for a Coastal Wildlife Refuge**, *Ms. Virginia Rettig, Refuge Manager, Edwin B. Forsythe National Wildlife Refuge*

1430 **Engineering and Constructing Large-Scale Restoration Projects**, *Mr. Steve Auernhamer, Vice President, Gulf Area Manager; Mr. Bill Hanson, Vice President, Government Relations, Great Lakes Dredge and Dock Company*

1500 Break

1530 **Understanding, Assessing and Managing Nutrient Loadings in Coastal Systems**, *Dr. John Lehrter, Research Ecologist, U.S. EPA Office of Research and Development, Gulf Ecology Division*

1600 **Restoring Coastal Plant Communities in South Korea**, *Dr. Young Ryun Kim, Research Scientist; Dr. Min Ho Son, CEO, Marine Eco-Technology Institute, South Korea*

1630 **Building Coastal Resilience for Hazard Mitigation and Conservation**, *Dr. Michael Beck, Lead Marine Scientist, The Nature Conservancy*

1700 End day 2

Friday, 23 May

0815 Orientation to the agenda

Climate Change and Coastal Systems

0830 **Preparing Coastal Systems for Climate Change**, *Dr. Paul Wagner, Deputy Associate Director for Climate Preparedness, White House Council on Environmental Quality*

0900 **Risk-Based Adaptation for Estuaries**, *Dr. Michael Craghan, Climate Ready Estuaries Program, U.S. EPA*

0930 **Rotterdam and the RDM Campus: Opportunities for Building Climate Resilient Communities through Redevelopment**, *Mr. Piet Dircke, ARCADIS Global Director for Water Management*

1000 **Offshore Carbon Capture and Storage in the Gulf of Mexico**, *Dr. Tip Meckel, Research Scientist, Texas Bureau of Economic Geology – Gulf Coast Carbon Center*

1030 Break

1100 **USDOE's National Risk Assessment Partnership: Quantifying the Behavior of Engineered-Natural Systems for CO2 Storage**, *Dr. George Guthrie, Focus Area Leader (Geologic and Environmental Sciences), Office of Research and Development, U.S. Department of Energy*

1130 **Panel Discussion on Science, Engineering, and Technology Challenges and Opportunities Regarding Climate Change and Coastal Resilience**

1230 Lunch

Working with Nature and Natural Systems

1330 **The USACE Engineering With Nature Program**, *Ms. Cynthia Banks, Program Manager for the USACE Dredging Operations Technical Support Program, USACE Engineer Research and Development Center*

1400 **Advancing a Structured Decision Process for Coral Reef Protection**, *Dr. Bill Fisher, Research Ecologist; and Dr. John Lehrter, Research Ecologist, U.S. EPA Office of Research and Development, Gulf Ecology Division*

1430 **Assessing Impacts on Coral Reefs**, *Dr. Deb Shafer, Research Marine Biologist, USACE Engineer Research and Development Center*

1500 **Technical Challenges in Coastal Mapping**, *Mr. Mike Aslaksen, Chief of the Remote Sensing Division, National Oceanic and Atmospheric Administration; Ms. Jennifer Wozencraft, Director, Joint Airborne Lidar Bathymetry Technical Center of Expertise*

1530 Break

1600 **Soft Engineering Approaches for Shoreline and Coastal Protection**, *Dr. Jon Miller, Research Assistant Professor, Stevens Institute of Technology*

1630 **Use of River Diversions for Coastal Restoration**, *Dr. Ehab Meselhe, The Water Institute of the Gulf; Dr. Gary Brown, USACE Engineer Research and Development Center*

1700 Meeting Conclusion

Information regarding conference registration and logistics is available at:

<http://el.erdc.usace.army.mil/dots/training/class.cfm>

Additional information about the conference can be obtained by contacting the Conference Chair, Dr. Todd S. Bridges at Todd.S.Bridges@usace.army.mil or the Conference Organizer, Ms. Cynthia Banks at Cynthia.J.Banks@usace.army.mil.