

PROGRAM AGENDA | APRIL 10-11, 2012

BRC Auditorium | 6500 Main Street, Houston, Texas

DAY 1: TUESDAY, APRIL 10, 2012

8:30 - 8:45 | *Introductions and Overview of SSPEED Center Abatement Concepts*

Phil Bedient and **Jim Blackburn** will give an overview of the proposed solutions for the Houston region coming out of the first two years of work under a grant from the **Houston Endowment, Inc.**

8:45 - 10:15 | SESSION I: *Houston Ship Channel (Phil Bedient, Session Chair)*

- 8:45-9:00** **Jennifer Proft, University of Texas at Austin**
Modeling Hurricanes in the Gulf of Mexico Using ADCIRC
- 9:00-9:15** **Hanadi Rifai, University of Houston**
Damage Modeling and Cost Estimates in the Houston Ship Channel
- 9:15-9:30** **Marcus Woodring, Port of Houston Authority**
Disaster Preparedness and Emergency Management at the Port of Houston
- 9:30-9:45** **Phil Bedient, Rice University**
Feasibility Study of Houston Ship Channel Surge Protection
- 9:45-10:00** **Joe Cibor, Fugro & Charlie Penland, Walter P Moore**
Houston Ship Channel Preliminary Gate Structure Design

10:00 - 10:15 BREAK

10:15 - 12:00 | SESSION II: *The Upper West Side of Galveston Bay (Jamie Padgett, Session Chair)*

- 10:15-10:30** **Sam Brody, Texas A&M at Galveston**
Identifying Risk and vulnerability in the Clear Lake Watershed
- 10:30-10:45** **Jamie Padgett, Rice University**
Predicting and Evaluating Bridge and Road Infrastructure Damage
- 10:45-11:00** **Bill Wheeler, Harris County Office of Emergency Management**
Developing Communication Strategies for Public Evacuation and Re-entry
- 11:00-11:15** **Nick Fang, Rice University**
Creating Flood Alert Systems in Coastal Areas
- 11:15-11:45** **Tom Colbert, University of Houston**
Design Strategies For Storm Surge Protection

11:45 - 1:00 LUNCH

1:00 - 1:20 p.m. | **Paul Davies, British Meteorology Office, United Kingdom**

Building Resilient Infrastructures and Flood Forecasting in UK

1:20 - 1:40 p.m. | **Col. Chris Sallese, U.S. Army Corps of Engineers**

Surge Abatement and Damage Minimization: The Galveston District vs. National Perspectives

1:40 - 2:00 | **John Nau, Steering Committee Chair, Lone Star Coastal National Recreation Area**

2:00-2:15 BREAK

2:15 - 4:30 | SESSION III: *The Lone Star Coastal National Recreation Area (Jim Blackburn, Session Chair)*

- 2:15-2:25** **Jim Blackburn, Rice University**
Policy and Planning Issues in a Resilient Coastal Economy
- 2:25-2:45** **Suzanne Dixon, National Parks Conservation Association**
Economics and National Recreational Areas
- 2:45-3:05** **Lynn Scarlett, Resources for the Future**
Innovative Concepts in National Recreation Area Development
- 3:05-3:25** **Ron Sass, Rice University**
An Ecological Perspective on the Proposed Lone Star Coastal National Recreation Area
- 3:25-3:45** **Bob Stokes, Galveston Bay Foundation**
The LSCNRA and Galveston Bay Plans
- 3:45-4:05** **Victoria Herrin, Houston Wilderness**
Public Outreach and the Lone Star Coastal National Recreational Area
- 4:05-4:30** **Discussion**



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Gulf Coast Hurricanes: Mitigation And Response

DAY 2: WEDNESDAY, APRIL 11, 2012

Wednesday morning will be devoted to two concurrent break out sessions:

9:00-12:00 | SESSION IV-A: *Upper West Side of Galveston Bay Workshop* (held in the BRC Library, 2nd Floor)

Dedicated to the upper west side of Galveston Bay, the proposed mitigation alternatives which include levees and flood warning systems will be discussed. Area stakeholders and concerned citizens will be invited to a workshop to talk about the issues and associated impacts in detail. **Mr. Bill King** will be the keynote speaker for this session and **Ms. Margaret Vaughan Robinson** will facilitate the workshop.

9:00-12:00 | SESSION IV-B: *General Issues – Gulf Coast Mitigation* (held in BRC Auditorium | **John Pardue**, Session Chair)

Dedicated more generally to coastal surge abatement with discussions of issues from Brownsville to New Orleans. A group of mitigation experts from New Orleans and Katrina will be invited to present the latest on structural options that have been built in the last several years. Also, the Brownsville area will be discussed in terms of the risks associated with a direct hit from hurricanes in that area.

PRESENTERS:

- 9:00-9:30** **Dale Berner & Michael Gebman, Ben C. Gerwick, Inc.**
Lessons Learned from the Inner Harbor Navigation Channel - Lake Borgne Storm Surge Barrier
- 9:30-10:00** **John Pardue, Louisiana State University**
Flood control, risk reduction and preparedness 7 years after Katrina
- 10:00-10:30** **Brian Wolshon, Louisiana State University**
Advancements in Evacuation Planning and Analysis Tools Since Hurricane Katrina
- 10:30-11:00** **BREAK**
- 11:00-11:20** **Hal Needham, Louisiana State University**
Evaluating Gulf Coast Hurricane Return Periods Using Historical Data
- 11:20-11:40** **Jude Benavides, University of Texas at Brownsville**
Evaluating Hurricane Impacts in South Texas
- 11:40-12:00** **William Kiene & John Machol**
A Citizens' Initiative for Hurricane Protection for the City of Galveston

12:00-1:00 LUNCH (for registered Short Course participants only)

Short Courses will be offered after lunch on Wednesday from 1:00pm to 5:00 pm (Registration Required)

Course 1 | *Emergency management preparations for hurricane response* (held in BRC 280)

A team will be headed by **Bill Wheeler** of the HCOEM and **Charlie Penland** of Walter P Moore to layout details and issues for emergency managers and facility operators who want to learn about the latest techniques for emergency management.

Course 2 | *Hydrologic/Hydraulic Models for Decision Makers and Engineers* (held in BRC 282)

An overview of the most important breakthroughs in hydrologic and surge modeling in years. ADCIRC modeling will be covered by **Dr. Joannes Westerink** of the University of Notre Dame. The short course will cover various applications of hydrologic modeling using HEC-HMS and HEC-RAS as example models. This seminar will provide a brief overview of the unsteady flow simulation feature of the HEC-RAS as well as Flood alert systems using NEXRAD radar will be discussed in detail for Brays Bayou and City of Sugar Land.