Coastal Engineering Research Board Tasks and R&D Update



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Regional Sediment Management

Engineer Research and Development Center

Advancing Science and Technology in Support of Sustainable Solutions to America's Water Resources Needs





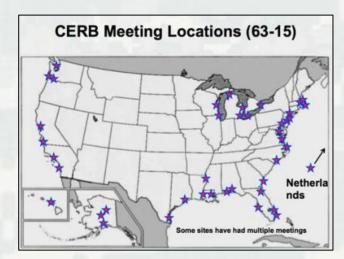
History of CERB

Beach Erosion Board (1929 – 1963): "investigate and report on the subjects of sand movement and beach erosion at such localities as may be designated by the Chief of Engineers."



Coastal Engineering Research Board (1963 – Today)

Mission: Recommends to the Commander, USACE, overall priorities of broad research areas in consonance with the needs of the coastal engineering field and the objectives of the Commander.







92nd CERB Meeting Galveston, TX

THEME: Coastal Navigation – Driving the U.S. Economy by Integrating Marine Transportation Infrastructure with Natural Coastal Systems

Meeting Concept: Identify the U.S. Gulf region's engineering challenges to enhance the resilience of coastal systems while sustaining critical marine transportation and the research and development needs to deliver innovative solutions to meet these challenges and opportunities.





92nd CERB Agenda

Technical Sessions

- Integrated Coastal and Navigation Systems of the Texas Coast
- Coastal Engineering with Nature and Regional Sediment Management
- Integrated Coastal and Navigation Systems

Field Trip

Stop #1 Integrated Petrochemical Facility, Navigation, and Structural Flood Risk Management Infrastructure, Port of Texas City

Stop #2 Beach Nourishment Project, Galveston Island

Stop #3 Port of Galveston Facilities and Cruise Terminal





Regional Sediment Management & Engineering With Nature







Systems Optimization

Dredging Equipment / Environmental Windows Optimization of Navigation Systems in the Gulf of Mexico

Heather Nachtmann, Ph.D.

Kenneth N. Mitchell, Ph.D.

Chase E. Rainwater, Ph.D.

Corey Winton, Ph.D.

Fereydoun Adbesh, M.S.

92nd Coastal Engineering Research Board Meeting September 2, 2015









Coastal and Navigation Asset Management:

System Optimization Based on Cargo Flows for the Houston-Galveston

Navigation Channel



92nd Coastal Engineering Research Board Meeting

Galveston, Texas

2 Sept. 2015



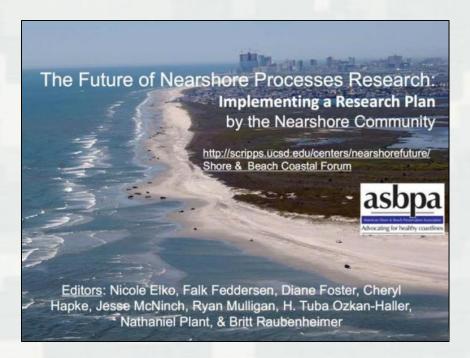


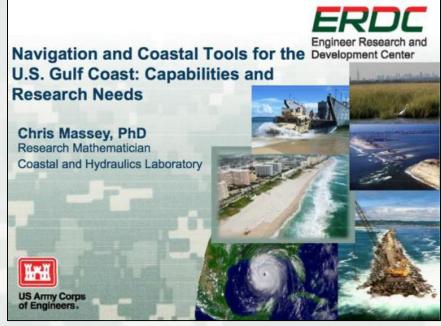




Engineer Research and **Development Center**

Priority Coastal Research Needs









92nd CERB Take-Aways

- 1. Continue investment in "Systems" research and development of tools that help design and operate projects and regions
- 2. Consider a Corps role in creating a National coastal R&D plan
- 3. Link R&D with on-going District projects to focus research products and drive requirements with high priority needs
- 3. Measuring, monitoring and data





Questions???





