Session 3C

APPLIED PHYSICAL SCIENCES IN THE GULF OF MEXICO ENVIRONMENT

Co-Chair: Charles McCreery, BOEM
Co-Chair: Jose Hernandez: BOEM

Thursday Afternoon, August 24
Grand Ballroom C

Description: BOEM encourages research into the physical sciences to enhance knowledge of natural processes that may affect oil and gas activities and infrastructure in the Gulf of Mexico. Some of the issues discussed include ocean circulation and its effects on oil spill distribution, observations of ocean pH values in sensitive benthic environments, the distribution of significant sand resources and space-use considerations in their extraction, and slope failures on the Mississippi Delta Front and their potential impacts on oil and gas infrastructure.

1:00 – 1:15 Welcome and Introduction
Charles Jay McCreery and Jose Hernandez
Bureau of Ocean Energy Management

1:15 – 1:45 Delivery of Sediment to the Continental Slope via Plume Transport and Storm Resuspension: Numerical Modeling for the Northern Gulf of Mexico
Courtney K. Harris
Virginia Institute of Marine

1:45 – 2:15 Coral Reef Ocean Acidification Sentinel Site in the Flower Garden Banks National Marine Sanctuary: Data Collection and Analysis
Niall Slowey
Texas A&M University

2:15 – 2:45 Analyzing the Potential Impacts to Cultural Resources at Significant Sand Extraction Areas: Geological and Physical Processes Investigations
Quin Robertson
APTIM

2:45 – 3:00 BREAK

3:00 – 3:30 Delta Front Mass Wasting and its Potential Effects on Oil and Gas Infrastructure
Jason Chaytor
U.S. Geological Survey

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3:30 – 4:00 Sub-Decadal Submarine Landslides: Mississippi Delta
Kehui Xu
Louisiana State University

4:00 – 4:30 Mass Wasting Processes and Products of the Mississippi Delta Front: Data Synthesis and Observation
Samuel Bentley
Louisiana State University