

Session 2A

**OIL INTERACTIONS: MARINE AND COASTAL**

Co-chair: Chris DuFore, BOEM

Co-chair: Erin O'Reilly, BOEM

Wednesday Morning, August 23

Grand Ballroom C

*Description:* In the wake of the 2010 *Deepwater Horizon* (DWH) oil spill, various research consortia and Natural Resource Damage Assessment (NRDA) studies were undertaken to examine the impacts of the spill on Gulf of Mexico coastal and marine habitats, resources, and species. In addition, BOEM has funded several studies that address the bureau's information needs related to the DWH spill. These studies help fulfill BOEM's mandate under Section 20 of the Outer Continental Shelf Lands Act (1953) to establish the information needed for assessment and management of environmental impacts on the human, marine, and coastal environments of the Outer Continental Shelf that may be affected by oil and gas development. This multidisciplinary session will present a variety of topics including surface oil transport, effects of dispersant, deepwater coral habitats, oiled salt marshes, coastal archaeological sites, and deepwater historic shipwrecks.

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| 8:00 – 8:15  | Welcome and Introduction<br>Chris DuFore<br>Bureau of Ocean Energy Management   |
| 8:15 – 8:45  | Effects of dispersants on the environmental fate, transport and distribution of spilled oil in marine ecosystems<br>Dongye (Don) Zhao<br>Auburn University                            |
| 8:45 – 9:15  | Natural and engineered weathering of spilled oil: Roles of photodegradation, surface ozonation and effects of dispersants<br>Dongye (Don) Zhao<br>Auburn University                   |
| 9:15 – 9:45  | Quantifying the residence time and accumulation of sediment-bound contaminants in coastal Louisiana using natural radioisotope tracers<br>Kanchan Maiti<br>Louisiana State University |
| 9:45 – 10:00 | BREAK   |

(Continued)

Session 2A (Continued)

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- 10:00 – 10:30 Remote sensing assessment of surface oil transport and fate during spills in the Gulf of Mexico  
Ian McDonald  
Florida State University
- 10:30 – 11:00 Analysis of uncertainty in simulations of surface oil drift in the Gulf of Mexico  
Dmitry Dukhovskoy  
Florida State University
- 11:00 – 11:30 Simulation Modeling of Deepwater Oil Spills in the Gulf of Mexico  
Deborah French-McCay  
RPS Group – Ocean Science