



Coastal Response Research Center

Dispersed Oil Research Forum

February 1 - 2, 2007

Agenda

Day 1: Thursday, February 1, 2007

8:00 - 8:15 **Welcome**
Ken Barton, NOAA Office of Response and Restoration
Nancy E. Kinner and Amy Merten, Coastal Response Research Center

SESSION: Effects of Dispersing Oil

8:15 - 8:45 **Factors Affecting the Chemistry of Water-Accommodated Fractions of Oil**
Mark G. Carls, Larry Holland, Marie Larsen
NOAA Fisheries, Auke Bay Laboratory

8:45 - 9:15 **Multiphase Partitioning of Oil Components Controls Exposure to Aquatic Organisms**
Joel Baker, Eileen Beard, Carys Mitchelmore, Mike Teasdale
University of Maryland, Chesapeake Biological Laboratory

9:15 - 9:45 **Mechanisms of PAH Toxicity in Fish: Connecting Recent Discoveries to Future Research on Dispersed Oil**
Nathaniel Scholz, Whitney Blanchard, Tracy Collier, John Incardona
NOAA Fisheries, Northwest Fisheries Science Center

9:45 - 10:00 *Break (Sponsored by ExxonMobil)*

10:00 - 10:30 **Behavioral Response of Pink Salmon Fry (*Oncorhynchus gorbuscha*) to Fresh, Weathered, and Dispersed Crude Oil and to the Dispersant COREXIT 9527**
Mark G. Carls, Adam Moles
NOAA Fisheries, Auke Bay Laboratory

10:30 - 11:00 **Acute and Chronic Effects of Crude and Dispersed Oil on Chinook Salmon Smolts (*Oncorhynchus tshawytscha*)**
Ronald Tjeerdema, Brian Anderson, Ching-Yu Lin, Michael Sowby
University of California, Davis

11:00 - 11:30 **Predicting PAH Toxicity Under Varying Dispersant Scenarios**
Deborah French-McCay, Jill Rowe, Walter Nordhausen, James Payne
Applied Science Associates, Inc.

11:30 - 1:00 *Lunch (on your own)*

SESSION: Fate of Dispersed Oil

1:00 - 1:30 **Effects of Mixing Energy and Hydrodynamics on Chemical Dispersion of Crude Oil in Bench-Scale Tests**
Brian A. Wrenn, Biplab Mukherjee
Department of Energy, Environmental and Chemical Engineering, Washington University, St. Louis

1:30 - 2:00 **Measurement of Energy Dissipation Rate in a Wave Tank under Three Conditions: Regular Non-Breaking, Spilling, and Plunging**
Michel C. Boufadel, Erik Wickley-Olsen, Ken Lee, Albert D. Venosa
Temple University - College of Engineering

Day 1 Continued

- 2:00 - 2:30 **Dispersant Effectiveness as a Function of Energy Dissipation Rate in a Wave Tank**
Albert D. Venosa, Kenneth Lee, Michel C. Boufadel, Zhengkai Li
U.S. Environmental Protection Agency
- 2:30 - 3:00 **Wave Tank Studies on Dispersant Effectiveness: Influence of Energy Dissipation Rate on Oil Droplet Size and Concentration**
Kenneth Lee, Zhengkai Li, Paul Kepkay, Michel C. Boufadel, Albert D. Venosa
Bedford Institute of Oceanography, Fisheries and Oceans Canada
- 3:00 - 3:15 *Break (Sponsored by Oil Spill Recovery Institute (OSRI))*
- 3:15 - 3:45 **Fate of Dispersed Oil: Field Trials with Dispersant Application - Importance for Development and Calibration of Operational Model Tools**
Per Daling, Per Johan Brandvik
SINTEF /University Centre in Svalbard - Arctic Environmental Technology
- 3:45 - 4:15 **Field Verification of Dispersed Oil Fate and Transport Modeling and Linking CODAR Observation System Data with Model Predictions**
James Payne, Deborah French-McCay, Eric Terrill, Walter Nordhausen
Payne Environmental Consultants, Inc
- 4:15 - 4:45 **Investigation of the Fate of Dispersed Oil in Aquatic Systems**
James Bonner, Michael Sterling, Cheryl Page, Chris Fuller
Texas A&M University
- 4:45 - 5:15 **Movement of Oil Under Non-Breaking Waves**
James W. Weaver and Michel C. Boufadel
U.S. Environmental Protection Agency, Ecosystems Research Division
- 5:15 - 5:30 **An Annotated Dispersants Bibliography**
John Conover
LUMCON Library, Louisiana Universities Marine Consortium

Day 2: Friday, February 2, 2007

SESSION: Efficacy of Dispersing Oil

- 8:00 - 8:30 **Post-Atomization Impact Behavior of COREXIT 9500 and COREXIT 9527 on Oil Slicks**
Timothy Ebert
Ohio State University, Sponsored by API
- 8:30 - 9:00 **Improvement of the French Efficiency Test AFNOR 90-345 (IFP Dilution Test)**
Francois X. Merlin
CEDRE, France
- 9:00 - 9:30 **Dispersant Effectiveness Testing on Viscous, U.S. Outer Continental Shelf Crude Oils**
Randy Belore
U.S. Minerals Management Service/ SL Ross Environmental Research Limited
- 9:30 - 10:00 **Calm Seas Application of Dispersants and Chemical Dispersibility of Outer Continental Shelf Crude Oils in Non-Breaking Waves at OHMSETT**
Kenneth Trudel, Randy Belore, Alun Lewis, Joseph Mullin
U.S. Minerals Management Service/ SL Ross Environmental Research Limited

Day 2 Continued

10:30 - 10:45 *Break (Sponsored by BP America)*

SESSION: Cold Water Dispersant Use

10:45 - 11:30 **ExxonMobil Research on Dispersants in Cold Water**

Tim Nedwed
ExxonMobil Upstream Research Company

11:30 - 12:00 **Dispersant Testing on Alaskan Crude Oils in Very Cold Water**

Joseph Mullin
U.S. Minerals Management Service

SESSION: Ongoing and Future Dispersant Related Research

12:00 - 1:00 **A Panel Discussion of Ongoing and Future Dispersant Research**