Handouts

- One page description of new 2007 projects
- Table of projects funded to date
- Human dimensions workshop report
- Dispersants forum agenda
- Center regional focus one pager
- Contact information

- On Center website (www.crrc.unh.edu)
  - Current projects, presentations, events, links
Center’s Strategic Plan

• 3-5 year horizon starting in 2007
• Three topics of Center focus
  • Dispersant use
  • Submerged oil
  • Oil-in-Ice
• Within each topic, three areas of emphasis
  • Injury Assessment
  • Integrated Modeling and Ocean Observing
  • Human Dimensions
Focus Topics

- Dispersant Use
- Submerged Oil
- Injury Assessment
  - Integrated Modeling and Observing
  - Human Dimensions
- Oil-in-Ice
Dispersant Use

• Dispersants have been Center focus
  • Annual RFP topic
  • Sept 2005 Workshop
  • Center leads Dispersants Working Group (DWG)

• Dispersants emphasis continues because of:
  • Continued DWG efforts pending US Coast Guard (USCG) in-shore dispersant requirements in Spring 2007

  • Many unanswered questions remain
Submerged Oil

- Increase in amount of heavy oils being transported/used in U.S.
- Recent high profile incidents
  - Athos I
  - DBL 152
- Coincides with Congressional actions and USCG initiative
Oil-in-Ice

- Global Warming
- Arctic ice melting → Increased human activity
- Coincides with International Polar Year efforts
- Coincides with SINTEF Joint Industry Program
- Coincides with U.S. Arctic Research Commission concern
Areas of Emphasis Within Topics
Injury Assessment

- Emphasis for NOAA in its role as natural resource trustee
- Unique focus of NOAA/Center vs. other oil spill entities
  - MMS, USCG
- Continued emphasis for Center
  - Annual RFP topic
  - Toxicity Working Group
Integrated Modeling and Ocean Observing

- Integrated modeling focus of Center’s Fall 2006 Institute
- Biological integration in physical/chemical spill response and recovery models
- Models are integral parts of dispersant, submerged oil and oil-in-ice topics
- Models need to incorporate ocean observing system information
  - e.g., HF radar, GPS-drifter and drogues
Human Dimensions

• Identified as important during Center’s Nov 2003 Research Need Workshop
• Focus of June 2006 Workshop
• Needs to be incorporated into planning, emergency response, damage assessment and long term restoration for spills
Annual Request For Proposals

• Identification of priority research needs
  • Center Strategic Plan
  • Center-hosted research needs workshops
  • Dispersants Working Group (DWG)
• Research needs meetings with NOAA staff occurring in March/April
• RFP released on Center website on May 15
Newly Funded Research

• Dispersion effectiveness and particle size distribution $f(\text{turbulence, environmental conditions})$ [Katz, Johns Hopkins]
  • Digital holographic imaging
• Natural dispersion $f(\text{wave energy, long-term weathering}) \rightarrow$ modeling algorithm [Reed, SINTEF]
• HF radar validation (Safe Seas ’06) and protocols [Garfield, SFSU]
• Synthesis of restoration scaling methods [Peterson, UNC]
Annual RFP Topics

2006
- Dispersed Oil
- Submerged Oil
- Integrating Ocean Observing Systems and Spill Response
- Uncertainty and Risk Communication
- Habitat Recovery
- Restoration Scaling Methods

2007
- Dispersed Oil
- Submerged Oil
- Integrating Ocean Observing Systems and Spill Response
- ???
- ???
- ???
Dispersants Update

- February 1-2, 2007: Dispersants Research Forum in Redbank, NJ
  - DWG PIs presented current research followed by DWG meeting to assess progress on research needs
    - Which research needs have been addressed and what remains to be answered
  - Now international participation in DWG (e.g., CEDRE, DFO, Env. Canada, SINTEF, UK MCA)
Human Dimensions of Spills Research Needs Workshop

• **Topics Discussed:**
  - Communication,
  - Valuing natural resources
  - Social impacts
  - Subsistence
  - Environmental ethics
  - Organizational (institutional) behavior

• **Date:** June 13-15, 2006 at UNH

• **Report in today’s packets**
Other Outreach Initiatives

• Submerged/Heavy Oil Research Needs Workshop
  • December 2006 held jointly with US Coast Guard
  • Topics: Detection and Monitoring; Containment and Recovery; Fate and Effects; Protection of Intakes
  • Report available on website in May 2007

• Coastal/Ocean Observing Systems and Oil Spill Response/Recovery Integration Workshop
  • September 2007
Oil-In-Ice Experiment

- SINTEF and Joint Industry Program conducting “experimental” oil spill in Norwegian waters in 2009
- Numerous physical, chemical and modeling projects
- Center and NOAA will oversee biological component
  - Exposure and effects of oil on sea-ice microbial communities
    - Including biodegradation
CRRC Research Symposium

- Biennial symposium where results of Center-funded projects are presented by PIs
- Free, open to all
- Date/Time: April 19, 2007; 0830 to 1700
- Location: NOAA Sand Point (Seattle, WA)
- Agenda in today’s handouts
- Webcast available after April 20
- Presentation slides posted on Center website
- Contact Kathy.Mandsager@unh.edu to attend
www.crrc.unh.edu

• Center Website
  • Projects
  • Proposals
  • Progress reports
  • Final reports
  • Presentations
  • Articles

• Upcoming events/workshops/meetings of interest on spill response, recovery and restoration and related topics

• Center contact information
Coastal Response Research Center

www.crrc.unh.edu