

## CRRC/CSE Overview for Spills Advisory Group

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## CRRC/CSE

- Coastal Response Research Center (CRRC)
  - Partnership between NOAA Office of Response and Restoration and UNH
- Center for Spills in the Environment (CSE)
  - UNH center
  - Expands interaction and cooperation with private sector, other government agencies, academia, NGOs



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2

## CRRC/CSE Mission

- Conduct and Oversee **Basic** and **Applied** Research and Outreach on Spill Response and Restoration
- Transform Research **Results into Practice**
- Serve as **Hub for Oil Spill R&D**
- **Educate/Train Students** Who will Pursue Careers in Spill Response and Restoration



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3

## CRRC Activities



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4

## Workshop: Coordinating R&D on Oil Spill Response in Wake of the Deepwater Horizon

March 22-24, 2011  
Baton Rouge, LA



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5

## Workshop Summary

- Update the R&D needs for spill response
- Create dialogue between researchers and practitioners
  - Ensure usefulness and application of findings
- 66 participants (36 researchers, 13 industry, 17 federal & state)
- Topics: dispersant effects, dispersant efficacy, detection, human dimensions, seafood safety, modeling, & data management
- Report posted on website



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6

## Dispersant Initiative

2011-2012  
NOAA, CRRC, RPI



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7

## Initiative Highlights

- \$1M Project - NOAA Funding
- Collect DWH Dispersant Data for Easier Access
- Independent Analysis of Corexit 9500
  - Pacific Northwest Lab
- White Papers
  - What's known and what are R&D issues
- Workshop on R&D Needs
- \$500K for Research Grants



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8

## Workshop Details

- 70 participants (25 researchers & NGOs, 11 industry, 33 federal & state)
- Topics:
  - Efficacy and effectiveness
  - Physical transport, chemical behavior
  - Degradation of dispersants
  - Biological effects
  - Seafood safety
  - Human health
  - Risk communication



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9

## Initiative Outcomes

- Topical White Papers
- Workshop Report (currently under final review)
- Request for Proposals (RFP)
  - \$500K
  - Sept 2012
  - Fund future research projects to address research needs
  - Partnerships to leverage funds



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10

## State-of-the-Art Deepwater Well Blowout Modeling Workshop (GNOME)

September 26-27, 2011

Seattle, WA



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11

## Workshop Summary

- Mix operational and academic modelers
- Help NOAA decide among simple scaling models and/or spatially explicit models for deepwater well blowout
- State-of-the-art for droplet size distribution and hydrate formation
- Model scalable from deepwater to shallower depth blowout events
- All presentations posted on website
- 26 participants



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12

## ADIOS 3 Workshop

September 28-29, 2011

Seattle, WA



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13

## Workshop Summary

- Ideas help NOAA to model weathering processes
- Recommendations for possible research
- Evaluate NOAA's proposed model structure & implementation plan for ADIOS3
- All presentations posted on website
- 16 participants



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14

## Arctic ERMA® Workshop

- April 2011 in Anchorage, Alaska
- Goal: provide information and tools to support decision-making for oil spills in Arctic and sub-Arctic waters
- 78 participants (5 representing indigenous communities)
- Breakout Groups:

•Operations	•Logistics
•Planning	•Preparedness
•Environmental	•NRDA



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15

## Arctic Communities Initiative

- Goal:
  - Continue dialogue with Arctic communities on oil spill response
  - Include in ERMA® - data input and resource & use
- ERMA® and NRDA discussions
- Each community (NWAB, NSB) has different focus
- Week of May 21, 2012



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16

## ICCOPR R&D Report

- Update the Interagency Coordinating Committee on Oil Pollution Research (ICCOPR) 1997 Research and Technology Plan (R&T Plan)
- Create 2013-2019 Research Needs Annex
- In conjunction with SRA and SEA
- Completion Date: December 2012



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17

## R&D Projects

- Hollebone, Environment Canada
- "Investigation of Physical & Chemical Causes of Heavy Oil Submergence"
- Final report in Draft
- Objectives:
  - Examine causes & effects of density changes in heavy petroleum oils
  - Examine physical and chemical causes for refloatation of heavy oils



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18

## Working Groups

- Dispersants
- Non-Floating Oils
- Modeling
- Dialogue About Funding, Findings and Coordination



## CSE Activities



## R&D Coordination (API Funding)

- GOMRI Outreach:
  - Consortium for Ocean Leadership, DC
  - University of Miami
  - University of South Florida
  - Florida State University
  - LA
  - Tulane
  - TX A&M
  - UT Austin
  - Mississippi
- Coordination with:
  - MS/AL Sea Grant R&D database
  - NSF Rapid Grants



## R&D Coordination (API Funding)

- Forum: Oil Spill Research
  - January 10 - 11, 2012
  - Baton Rouge, LA
  - Goals:
    - Dialogue among PIs of current research related to oil spill response (e.g., GOMRI, NSF) and industry and government
    - Coordinate R&D activities
    - Practitioners and new oil spill researchers



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