

Coastal Response Research Center  
Dispersant Working Group  
November 17, 2009  
(In conjunction with Clean Gulf, New Orleans, LA)

*Meeting Notes*

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**Attendees:** Nancy Kinner-CRRC, Amy Merten-NOAA, Al Venosa, Greg Wilson & Nick Nichols -USEPA, Kurt Hansen-USCG, Jim Clark-ExxonMobil, Lyman Young-Chevron, Ed Bock-USCG CG-533, Joe Mullin-MMS, David Fritz-BP, and via phone: Ken Lee, COOGRE DFO Canada

- I. Overview of DWG
  - Nancy Kinner gave a brief overview of history & purpose of this working group
  
- II. Status of Funded Research Projects
  - **Joe Mullin** (MMS)
    - Nothing to report
  
  - **David Fritz** (BP)
    - Nothing to report
  
  - **Al Venosa** (US EPA)
    - Wave tank tests containing fish exposed to plume (2 hrs, depurate (72 hrs); tested fish every several hours after; SIPIA – enzyme, etc; series of dilutions of plume; highest dilution gave slightly higher induction; physically dispersed vs. chemically enhanced dispersed
  
  - **Ken Lee** (DFO)
    - Herring concentration of dispersed in wave tank; deformities, microscopically, quantifying & physically examining them, sticky egg assay (PWSRCAC & EPA)
    - Dispersants in cold water proposal from MMS & Univ of MD
    - CEDRE Discobiol in January; field trial in wetlands; still working on benthic
    - 2011 field trial in Arctic with research vessel in St Lawrence; papers submitted
    - OMA publication forthcoming with USCG
    - Field study in whole lake studies vs. Great Lakes

- International study-major study in arctic with USCG “Oil Spill countermeasures...” herders, in situ, etc. broken ice and work in Beaufort – complimentary work to JIP
  - OMA & Chemical dispersants is Ken Lee’s focus (Corexit and Exxon’s new product for cold water)
- **Nick Nichols** (US EPA)
  - Jim Weaver study in Long Island Sound fish/tides but funding ran out. Would like this to continue to complement Discobiol Study.
- **Kurt Hansen** (USCG)
  - Ed Levine (NOAA) lead for re-looking at the SMART protocol based on new C-3 from Turner that Strike Team bought; process of setting up working groups; LSU, Hawaii, Coast Guard, remind them we are doing it only for FOSC; 1-2 yrs; ERT is not on this list
- **Jim Clark** (ExxonMobil)
  - Arctic R&D- dispersants is part of this overall arctic research
  - Industry partner on JIP. Next spring testing. Barrow test site.
  - Toxicity, biodegradation, copepods, enhancing spreaders
  - Oil Spill Response Ltd sent flourometry equipment to Australia blow-out and received wealth of data through AMOSC. Get a copy of this monitoring data
- **Bill Lehr** (NOAA)
  - CRRC next generation modeling manuscript
  - Revising NOAA adios2 to adios 3 so this data is important.
  - Beta testing response modeling
- **Ed Bock** (USCG)
  - 2 separate incidents apply dispersants in Gulf coast; expecting On Scene Coordinator’s report pending approval
  - No conclusion to Tier 2; logistical challenge; wave length problem (PRAC funding to develop a sensor).
  - FOSC is trying to determine chemically &/or concentration (pending OSC reports)
- **Nancy Kinner** (Coastal Response Research Center)
  - Final Reports completed from Ken Lee, “Wave Tank Studies on Dispersant Effectiveness as a Function of Energy Dissipation Rate and Particle Size Distribution”
  - Final Report completed from Ali Khelifa, “Effects of Dispersants on Oil-SPM Aggregation and Fate in US Coastal Waters”

- Final Report completed from Mark Reed, "Development of a Numerical Algorithm to Compute the Effects of Breaking Waves on Surface Oil Spilled at Sea"
- Final Report completed from Joe Katz, "Measurements and Modeling of Size Distributions, Settling and Dispersions (turbulent diffusion) Rates of Oil Droplets in Turbulent Flows"
- Final Report completed from Toby Garfield, "Delivery and Quality Assurance of Short-Term Trajectory Forecasts from HF Radar Observations"
- Debbie French McCay, "Guidance for Dispersant Decision-Making: Potential for Impacts on Aquatic Biota". This guidance document/calculator tool is almost complete. This field guide uses SIMAP to compare impacts/damage to surface vs. water columns.

III. Additional activities to note

- California protocols (CRRC to follow-up with Yvonne Addassi) on Tjeerdema's salmon study
- Louisiana database is complete and now available on website

IV. Next meeting options: Clean Gulf or IOSC