

Dispersant Working Group
October 28, 2008
(In conjunction with Clean Gulf, San Antonio, TX)

Meeting Notes

Attendees: Nancy Kinner-CRRC, John French-PWSRCAC, Skip Przelomski–Clean Caribbean, Al Venosa-USEPA, Leigh DeHaven,-USEPA, Bruce Hollebhone-Environment Canada, Karin Messenger-USCG, Joe Lally-USCG, Don Davis-LAOSRADP, David Fritz-BP, Kurt Hansen-USCG, Tom Coolbaugh-ExxonMobil

- I. Updates & Reminders:
 - Submerged Oil Working Group meeting at Clean Gulf, Oct 29 moved to 6:30pm
 - CRRC hosting next Oil Spill R&D Workshop, Mar 17-19, 2009. By invitation only.

- II. Status of Funded Research Projects
 - **Don Davis** (Louisiana Applied and Educational Oil Spill Research and Development Program (OSRADP))
 - Dispersant Bibliography Database currently has 2500-300 references
 - Update every 2-3, years if funding allows

 - **Nancy Kinner** (Coastal Response Research Center)
 - Debbie French McCay – newly funded project. This field guide uses SIMAP to compare impacts/damage to surface vs. water columns. Product will be a field guide/calculator/spreadsheet.
 - Carys Mitchelmore - coral project (final report submission forthcoming)
 - Chris Rowe – turtle project (final report is in final stages of review process)
 - Venosa/Lee – wave tank project (final report submission forthcoming)

 - **John French** (PWSRCAC)
 - Revision of dispersant database (M. Fingas), synthesis of last 5- yrs of dispersant research and analysis. Not in final stage yet.
 - RFP on hydrocarbons – consortium of submitters (K. Lee et al.). Project is now in contract stages. Tank testing on juvenile fish and eggs.

- Additional funds required to fund other part of this project (i.e., Jeep Rice, Tracy Collier et al. on molecular & behavioral using zebra fish. Showing some interesting preliminary data.
 - Alaska Dept of Interior recently revoked their stand on dispersant usage. Now instructing on-scene coordinators to follow dispersant regulations
 - Efficacy of dispersant topic (not yet under contract) by EPA/COOGER tank testing
- **Skip Przelomski** (Clean Caribbean)
 - Self-funded project: re-visiting Panama Mangrove test site (20 years post-spill) Tropics site, EPA interest, known oiled site
- **Al Venosa** (US EPA)
 - Wave tank tests – finished 21 test runs & currently analyzing data – using regular and plunging breaking waves
 - Toxicity testing on juvenile cod – exposed to dispersed oil in aquaria (0, 12, 18, 36, 60, 100%) @ (24, 48 & 72 hour); then sacrifice fish for further testing and data
 - Discovery Channel – see Al Venosa and Ken Lee on TV! Unfortunately, the test done during Discovery Channel filming will need to be redone.
 - EPA will be funding more of these (warm water) studies. (V Broje is testing arctic cod & copepods from cold water).
- **Leigh DeHaven** (US EPA)
 - No funded research at this time
- **Kurt Hansen** (USCG)
 - No R&D
 - Strike Force is doing side by side sensor testing with Turner instrument
 - Bonner @ Clarkson is doing some sensor work; on product developed by Bonner (environmental, disposable, no battery)
 - J. French - in their effort to revise regs, new fluorometer under development (Homer, AK)
 - OPRSCH – technical working group developing guidelines; need to start working with IMO as they revise dispersant guidelines
- **Tom Coolbaugh** (ExxonMobil)
 - Supporting or in-kind contributions to some dispersant work
 - Internal (Nedwed)

- Have revised all their written work: i.e., field manual, dispersant guidelines - issued new 2008 versions
 - Get formulation, higher viscosity, droplet size distribution; acquiring formal request to test in wave tank
- **Bruce Hollebone** (Environment Canada)
 - Khelifa has completed CRRC project and is now funded by EC to complete next stage of this project; previous research was on sedimentation - now will test oil type and energy input, possibly adding a dispersant component for diesel and heavy fuels and surface washing
 - Some discussion was held on biofuels – however, no need for dispersants on biofuels
- **Don Davis** (LAOSRADP)
 - Waiting for Governor to make a budget decision, no current research
 - Note Dispersant Bibliography mentioned previously
- **David Fritz** (API)
 - Was planning a dispersant seminar, but was cancelled due to hurricane; hoping to do this in March 2009 (research, planning & application; 2-day session; 50-75 participants; specific to Gulf Coast; high interest).
- **Francois Merlin** (CEDRE) Reported post-meeting from Lee/Merlin
 - 1) IMO guidelines on dispersants will be revised in 2010 under French leadership; 2) a new JIP on the use of dispersant in Arctic water with participation of Sintef and Akvaniva with support of Statoil and ENI and the Norwegian Research Council is being discussed; 3) CEDRE is preparing Discobiol part 1B (sub-lethal effects) to be completed from January-September, 2009; questions will be raised especially concerning the dispersed oil concentrations to be used during these tests ; F. Merlin would like to put this point to an informal discussion with other experts.
 - Tyler Crowe, student at UNH, funded by CRRC will be participating in CEDRE's Discobiol project (2009). Study dispersant effects on organisms (different fish species) exposed to different concentrations of dispersed oil and in variety of habitats.

III. Additional activities to note

- IMO R&D meeting at Interspill (Kurt Hansen, Al Venosa and Amy Merten are planning to attend)
- JIP Project (Per Johan Brandvik) funding from several oil companies to do an experimental spill next year (~May 2009) in Barents. Objectives are to

test mechanical equipment, *In situ* burn, modeling, on multiple types of oil, etc. This is culmination of JIP Project. CRRC, along with OSRI, is funding a brine channel, biological experiment. At recent JIP Steering Committee meeting there was discussion of possible dispersant testing.

- NELCO has issued a new MSDS for 95/27 and 95/100 transportation – no longer flammable (they did not change the formula).

IV. Next meeting options: Clean Pacific, Clean Gulf, or possibly in conjunction with CRRC's 2009 Oil Spill R&D workshop in March.