Industry Technical Advisory Committee

Industry Research Efforts
Tom Coolbaugh
Recent ExxonMobil Participation at IOSC

Tom Coolbaugh
Joint industry-sponsored effort to evaluate post-Macondo dispersant research

Marusia Popovech
Analysis of Hazards of Dispersant Constituents and Review of Toxicological Studies.

Tim Nedwed
Overview of the American Petroleum Institute (API) Joint Industry Task Force SSDI Project

Dave Palandro
Advances in Remote Sensing Research on Oil and Ice from the IOGP Arctic OSR Technology JIP

Dave Palandro
Oil in and under Ice Detection using Nuclear Magnetic Resonance

Wolfgang Konkel
Analysis of Potential for Human Exposure to Aerial Dispersant Application

Dave Palandro
Surveillance and Remote Sensing

Erik DeMicco, Tim Nedwed, David Palandro, Peter Lane (Desmi), Chris Chase, Steve Van Bibber (InterOceans Systems)
Advances in Oil Detection and Monitoring using a Smart Boom Monitoring System

David B. Chenault, Justin P. Vaden (Polaris Sensor Technologies), Douglas A. Mitchell, Erik DeMicco
Thermal Infrared Polarimetric Sensor for Automated Detection of Oil Spills

Rob Holland, Geeva Varghese, Lucy Heathcote, Victoria Broje, Tom Coolbaugh
Dispersant Technical Information Sheets: Conveying Multifaceted Toxicity and Effectiveness Data

Planning for AMOP, Clean Gulf, GoMOSES, Interspill, etc.
Surveillance and Monitoring

- New techniques are being considered

- A goal is to be able to target the thickest oil
Herding Agents / ISB

- Primary goal is to use a manned helicopter to both spray herder and ignite slick
- Secondary goal was to use a remote-controlled helicopter to perform same activities
Poker Flats, Alaska
Nuclear Magnetic Resonance

- Can discriminate between water/ice/oil
Responding to Publications

Chemical dispersants can suppress the activity of natural oil-degrading microorganisms

Would rather discuss methodologies in advance
Provide information as often as possible

For example, toxicity studies from ExxonMobil Biomedical Sciences, Inc (EMBSI)


- Bragin GE, TF Parkerton, AD Redman, DJ Letinski, JD. Butler, ML Paumen, CS Sutherland, TM. Knarr, M Comber, K den Haan (2016). Chronic Toxicity of Selected Polycyclic Aromatic Hydrocarbons to Algae and Crustaceans Using Passive Dosing, Accepted in *Environ. Chem & Toxicol.*


It's an ongoing effort – conferences, papers, workshops, one-on-one…