

OSPR/Chevron Oil Spill Response Technology Workshop

San Ramon, CA

February 26 - March 1, 2019

AGENDA

Day 1: February 26 Morning Session

0730-0800	Sign-in	
0800-0820	Welcome & Orientation	Paul Gugg, General Manager Emergency Management, <i>Chevron</i> Tom Cullen, Administrator <i>CA Dept. of Fish and Wildlife,</i> <i>Office of Spill Prevention and</i> <i>Response</i>

Research and Coordination Updates

0820-0840	<u>ICCOPR Activities Update</u>	Kirsten Trego (remote) <i>USCG</i>
0845-0905	<u>BSEE's Oil Spill Response Research Highlights</u>	Suzanne Chang <i>BSEE</i>
0910-0930	<u>Oil Spill Response Research Testing and Training at Ohmsett</u>	Paul Panetta <i>Ohmsett</i>
0935-0955	<u>NOAA Spill Science Update</u>	Jordan Stout & Lisa Dipinto <i>NOAA</i>
1000-1020	<u>OSPR Overview</u>	Tom Cullen <i>OSPR</i>
1020-1040	----- BREAK -----	

Applied Response Technologies (ART)

1040-1100	<u>ExxonMobil's Oil Spill Prevention and Response Research</u>	Tim Nedwed <i>ExxonMobil</i>
1105-1125	<u>Reducing Uncertainty for Subsea Dispersant Injection – A Summary of API-IPIECA Research Collaboration</u>	Martin Cramer <i>ConocoPhillips</i>
1130-1155	<u>i-Petrogel: A Comprehensive Solution for Oil Spill Recovery, Cleanup, and Prevention</u>	Dr. T.C. Mike Chung <i>Penn State</i>
1155-1300	----- LUNCH -----	

Applied Response Technologies (ART), cont.

1300-1320	<u>Lessons Learned from In-situ Burning of Wetlands in Louisiana</u>	Jacqui Michel <i>RPI/NOAA</i>
1325-1345	<u>Flame Refluxer: Enhanced Burning of Oil Slicks</u>	Ali Rangwala <i>Worcester Poly Institute</i>
1350-1410	<u>Techniques and Technologies to Increase <i>In Situ</i> Burning Efficiencies</u>	Karen Stone <i>BSEE</i>
1415-1425	<u>Fresh Water In-Situ Burn Research</u>	Elizabeth Murphy <i>USCG</i>
1430-1450	<u>A Review of Recent Research Projects in Three Areas Related to Oil Spill Response: Behavior of Conventional and Unconventional Oils, Linear Augmented ISB, and Decanting Practices</u>	Steve Potter <i>SL Ross</i>
1450-1510	---- BREAK ----	
1510-1520	<u>Response Technology Evaluation and Advancement</u>	Greg McGowan <i>CA OSPR</i>
1525-1545	<u>Implementing a Best Achievable Protection (BAP) & Best Achievable Technology (BAT) Review Process in Washington State</u>	Sonja Larson <i>WA DOE</i>
1545-1600	Daily Debrief	Greg McGowan <i>CA OSPR</i>

Day 2: February 27 Morning Session

Mechanical Response Technologies

0800-0820	<u>Marine and Inland Technologies</u>	Shon Mosier <i>Elastec</i>
0825-0845	<u>Instant Underflow Dams to Prevent the Spread of Oil and Fuel Spills in Streams and Creeks</u>	Donny Beaver <i>HalenHardy</i>
0850-0910	<u>Advancements in Non-Floating Oil Detection and Recovery</u>	Jim Elliott <i>T&T Marine Salvage</i>
0915-0935	<u>Response to Moving Sunken Oil</u>	Alexander Balsley (remote) <i>USCG</i>
0940-1000	<u>Spill Control Association of America</u>	Devon Grennan <i>SCAA & Global Diving</i>
1000-1020	---- BREAK ----	
1020-1040	Otter Series Skimmers/ Creating Community Spill Response Programs Require New and Cutting-Edge Technology	Kevin Kennedy <i>PPR Alaska</i>
1045-1105	<u>Robotic Oil Spill Recovery Vessel</u>	David Prior (remote) <i>Extreme Spill Technology</i>
1110-1130	<u>Sea Machines- Autonomous Vessel Controls for Spill Response and Site Assessment</u>	Carlton Schumacher <i>Sea Machines</i>
1135-1155	<u>Vessel of Opportunity Programs and Equipment Considerations</u>	Vince Mitchell <i>Lamor</i>
1200-1300	----- LUNCH -----	

Mechanical Response Technologies (cont.)

1300-1320	<u>Slick Snake</u>	Susan Cavoretto <i>Green Bag Co</i>
		Ken Lukins <i>USCG (retired)</i>
1325-1355	<u>SMALL SPILLS, BIG PROBLEMS New Technology that Prevents Oil Spills from Vessel Bilges</u>	Zdravko Divjak <i>Blue Guard</i>
1400-1420	<u>Case Studies in Pipeline Spill Elimination</u>	David McMasters <i>Chevron</i>
1420-1500	----- BREAK/TRANSITION -----	
	2018 Santa Barbara Seep Demo	
1500-1505	<i>Introduction to the Demo</i>	Ellen Faurot- Daniels <i>OSPR</i>
	<u><i>Technologies Used in Demo</i></u>	
1505-1520	<u>Unmanned Vessel for Chemical-Free Dispersion of Oil</u>	Karl Nevland Børge Kjeldstad <i>Blue Impact</i>
1525-1545	<u>Block Spills Before They Spread and Avoid Devastating Consequences</u>	Igor Kwiatkowski <i>HARBO Technologies</i>
1550-1610	<u>Fluorometry Summary for the Santa Barbara Seep Demonstration</u>	Jordan Stout <i>NOAA (for SMART)</i>
1615-1635	<u>Unique Applications of Remote Sensing and Surveillance Technologies Traditionally Used for Oil Spill Response</u>	Mark Hess <i>Ocean Imaging</i>
		Kevin Hoskins <i>MSRC</i>
1635-1700	Daily Debrief	All Attendees

Remote Sensing & Field Data Collection

0800-0820	<u>OSRL's Remote Sensing Capabilities and Outlook</u>	Paul Schuler OSRL
0825-0845	<u>Emergency Response with PLANET</u>	Trevor McDonald PLANET
0850-0910	<u>Satellite and Enhanced Airborne Spill Integrated Remote Sensing: A New Concept</u>	Alessandro Vagata Fototerra
0915-0935	<u>Evaluating the Use of Near Real-Time Aerial Photography Collected from BVLOS UAS and Fixed-Wing Platforms for Rapid Coastal Reconnaissance and SCAT</u>	Christian Haselwimmer Chevron
0940-1000	<u>Managing Resources in the Field</u>	Kenny Rhame TRG
1000-1020	----- BREAK -----	
1020-1040	<u>The Alaska Oil Spill Technology Symposium 2018: Research and Collaboration in Action</u>	Jessica Garron Univ. of Alaska
1045-1105	<u>OSPR's Digital Applications & ERMA</u>	Judd Muskat CDFW OSPR
1110-1130	<u>Ocean Observing Systems in California and Their Application for Oil Spills</u>	Henry Ruhl CeNCOOS
1135-1155	<u>RADARSAT-2 Products and Services to Support Near-Real Time Oil Spill Response</u>	Gordon Staples MDA Corp.
1200-1300	----- LUNCH -----	

Day 3:

February 28

Afternoon Session

Remote Sensing & Field Data Collection (cont.)

1300-1320	<u>Autonomous Underwater Vehicle (AUV) Capabilities for Oil Spill and Environmental Anomaly Detection in Open Water and Under Ice</u>	Amy Kukulya Woods Hole Oceanographic Institute
1325-1345	<u>Multispectral UAS for Oil Spill Response Operations</u>	Oscar Garcia WaterMapping
1350-1410	<u>Passive Remote Detection and Characterization: The Longwave in a Full Spectrum Context</u>	Ira Leifer Bubbleology
1415-1435	<u>Spill Detection and Environmental Monitoring with the Pyxis IR Camera</u>	David Chenault Polaris Sensor
1440-1500	----- BREAK -----	
1500-1520	<u>Update on Transport Canada's National Aerial Surveillance Program</u>	Louis Armstrong Transport Canada
1525-1545	<u>Slick Thickness Measurements from ROV and AUV Platforms</u>	Paul Panetta Applied Research Associates, Inc
1550-1610	<u>Development of a Self-propelled Camera System for Estimating Oil Thickness</u>	Douglas Mitchell ExxonMobil
1615-1630	Daily Debrief	All Attendees

Day 4:

March 1

Morning Session

Remote Sensing & Field Data Collection (cont.)

0830-0850	<u>Wireless Connectivity Without Internet Connection: How the Norwegian Coastal Administration's Aircraft and Vessels Build and Share a Common Operating Picture</u>	Kjetil Aasebø <i>Norwegian Coastal Administration</i>
0855-0915	<u>Mobile Ad Hoc Networking Radios for Situational Awareness</u>	Jeremy Hickman <i>Persistent Systems</i>
0920-0950	<u>Using Reality Based Mapping and GIS for Improving Waterway Monitoring and Early Warning Systems</u>	Brian Footen <i>Fishviews</i>
0955-1015	<u>Oil Spill Monitoring and Disaster Response with Drone Swarms</u>	Souma Chowdhury <i>University of Buffalo</i>
1020--1050	<u>DOI Drone Capabilities (with a Focus on the Kilauea Eruption Response)</u>	John Vogel <i>DOI</i>
1050-1110	Debrief and Closing	All Attendees