

## ELLIOTT TAYLOR



oil spill prevention & response planning  
marine and freshwater pollution  
regulatory compliance  
oceanography  
project management

### ***EDUCATION***

Texas A & M University, College Station: Ph.D., Oceanography, 1984  
University of California, San Diego: Graduate Studies, 1977-1979  
Universidad Autónoma de Baja California, México: B.Sc., Oceanography, 1977

### ***PROFESSIONAL HISTORY***

POLARIS Applied Sciences, Inc., Principal, 1998-Present  
TAYLOR Environmental and Marine Services, Inc., Owner, 1993-1998  
Woodward-Clyde Consultants, Senior Project Scientist, 1989-1993  
University of Washington: Visiting Scholar (oceanography) and Lecturer (geology), 1989  
Texas A & M University: Ocean Drilling Program, Staff Scientist, and Dept. of Geology, Assistant Professor, 1984-1989; Dept. of Oceanography, Graduate Research Assistant, 1979-1984  
Scripps Institution of Oceanography, UCSD, Laboratory Assistant II, 1977-1979  
Universidad Autonoma de Baja California, Teaching Assistant, 1973-1976

### ***REPRESENTATIVE EXPERIENCE***

Dr. Taylor is scientist with over 30 years of experience in environmental and marine sciences. His projects in oil spill response include planning, regulatory compliance, spill exercises, response evaluation, technical support in environmental and shoreline assessment, baseline studies, sediment quality and transport, coastal processes and marine geology. Dr. Taylor has taught undergraduate and graduate level courses in geology and oceanography. As an International Maritime Organization (IMO) expert consultant, he has been on teams conducting IMO model courses in oil spill response (OPRC) and has worked on regional and national planning initiatives. Dr. Taylor's field experience encompasses river, lake, harbor, coastal and deep-sea programs and spill response technical support worldwide. His extensive field and laboratory research includes studies of onshore to offshore marine geology and oceanography. He has provided leadership and management to numerous multi-disciplinary research programs that required coordinating project teams for both industry and international scientific programs. Examples of recent spill response project experience include:

- Shoreline response and SCAT Technical Advisor, Eastern States (MS, AL, FL) for three years in response to the Deepwater Horizon- MC252 spill in the Gulf of Mexico.

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- SCAT training instructor for courses provided to State and Provincial governments (Washington, Mississippi, Florida, British Columbia), industry (BP, Chevron, ENI, ExxonMobil, PEMEX), and international initiatives (IMO-UNEP).
- Environmental Unit leader to SCAT team coordinator or member on emergency response for spill incidents including: Exxon Valdez (1989 and follow-up through 2006), Barge 101 Alaska (1992), Greenhill blowout (1992), New Carissa (1999), Bolivia Transredes pipeline (2000-2001), Johnson Creek (Oregon) (2004), SOTE Pipeline (Papallacta, Ecuador) (2004), Torm Mary (Texas) (2005), Barge PB20 (Washington), Selendang Ayu (Alaska, 2004), Barge Millicoma (Oregon-Washington) (2005), Kab 121 Well (PEMEX Gulf of Mexico, 2007), Lemon Creek (BC) (2013), Deepwater Horizon MC252 spill (U.S. Gulf of Mexico, April 2010 to April 2013), and Bridger pipeline (Montana, 2015).
- Contracted oil spill expert to support international missions for IMO, IPIECA, RAC-REMPEITC Carib for workshops on environmental risk assessments and national oil spill contingency planning. Workshops delivered in Anguilla, Antigua, Belize, Costa Rica, Nicaragua, St. Maarten, and St. Vincent-Grenadines.
- Contracted oil spill expert to support international missions for IMO, IPIECA, and the GI WACAF (West Africa) Initiative for workshops on environmental risk assessments and national oil spill contingency planning in Equatorial Guinea.
- Technical lead for development of inland water mapping and pre-segmentation along crude-by-rail corridors in US (MT, MN, IO, IL) for spill response planning and geographic response plans.
- Technical leader for aerial video survey and coastal environmental sensitivity mapping of the Angola coastline, development of oil spill response tactics for key sensitive sites, and preparation of pre-SCAT geodatabase.
- Technical lead for the American Petroleum Institute on workshops and development of *“Assessment of Oil Spill Response Capabilities: A Proposed International Guide for Oil Spill Response Planning and Readiness Assessment”*, presented in a special session of the 2008 International Oil Spill Conference. As a follow-up to that initiative, Dr. Taylor completed the ARPEL Oil Spill Response Planning and Readiness Assessment Manual and RETOS (Excel application) in 2011 and led the workshops on use and application held in Rio de Janeiro (2011) and Trinidad (2012). Dr. Taylor led the effort for a 2014 upgrade to the ARPEL OSR readiness assessment manual and the RETOS tool, both freely available from the ARPEL website.
- Oil spill technical expert for proposed pipeline development and expansions in British Columbia: Northern Gateway and Trans Mountain pipelines. Activities include spill

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response planning and preparedness, development of preliminary tactical control points, oil testing, literature reviews, and information request support and expert witness testimony for the National Energy Board application and hearing process.

- Principal lead in development of the Gulf of Mexico Regional Oil Spill Contingency Plan for Pemex Exploration and Production. Effort entailed shoreline sensitivity atlas, logistics and spill equipment database, plan analysis and integration with platform (Tier 1) emergency plans, and recommended additional spill response resources and locations. Project encompassed all of Pemex Exploration and Production activities in the Gulf of Mexico (platforms, pipelines, marine terminals, and floating storage systems – FSO, FSPOs).
- Technical leader and oil spill expert for coastal environmental sensitivity mapping and spill response atlas for a proposed marine terminal in north British Columbia (Canada) and for river tactics along proposed pipeline route from Alberta.
- Expert review of marine spill response capability assessment of Mexico (Navy and PEMEX) representing the IMO through the RAC-REMPEITC Carib office.
- Technical Leader for Exxon Neftegas Ltd. for Sakhalin I regional and facility oil spill contingency plans, equipment readiness, training, and implementation. Project encompasses production alongshore and offshore, on-land and submarine pipelines and flowlines, processing facilities, and marine terminal for conditions ranging from open water to ice-covered operations.
- Spill planning expert on review team for European Bank for Regional Development (EBRD) and Lender's assessment of spill response readiness (plans and implementation) for Caspian Sea development, including ACG Offshore operations and BTC pipeline operations in Azerbaijan, Republic of Georgia, and Turkey.
- Principal lead in development of the Qatar spill response preparedness program, entailing an Oil Spill Contingency for the State of Qatar, audit of existing capabilities and preparation of recommendations for equipment, personnel, and training, development of the Halul Marine Terminal Spill Response Plan, development of the Qatar Coastal Sensitivity and Oil Spill Atlas, and formulation of the Qatar Spill Response Centre.
- Key member of team for preparation of the Sakhalin Energy Corporate Oil Spill Response Plan and template for seven area plans (offshore, pipeline, and terminals), including the Spill Response Plan for the Molikpaq Platform.
- Response Plan Coordinator for more than 100 oil spill contingency plans and spill prevention plans developed to support vessel owners and facility operators throughout the U.S. and Canada. Plans formulated to address state requirements, OPA 90,

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and/or the Canadian Shipping Act for vessels, marine-transportation related facilities, inland facilities, pipelines, and mobile facilities.

- Developed the Chad/Cameroon General Oil Spill Response Plan, Construction Phase Spill Plans for Chad and Cameroon, and six Area-Specific Spill Response Plans for along the 1000 km pipeline route, oil field areas, and offshore terminal. Formulated equipment recommendations and specifications and also developed and implemented a 3-year spill training and exercise regime.
- IMO-certified trainer on oil spill response having provided OPRC Model courses (Level 2) for the SE Pacific Regional Seas program (Chile, Peru, Ecuador, Colombia, Panama) and Caribbean Regional Seas program, in Spanish.
- Technical trainer for oil spill response planning, incident command system, and shoreline assessment, and facilitator in the design and implementation of spill response tabletop and field exercises. Courses and exercises have been provided to BP, Burrard Clean, ExxonMobil, Chevron, Valero, Trumble, PDVSA, Crowley Marine Services, Southern Peru Copper, Captains of Ports Venezuela, Canadian Coast Guard, PetroEcuador, PEMEX, Taiwan EPA, and numerous others.
- Technical lead on API review of oil spills into inland waters, freshwater bibliography, and spill effects and countermeasures.
- Senior Project Coordinator for the development of oil and acid spill response capabilities for Southern Peru Copper, Ltd. Operations at port coastal facilities, railroad right-of-way, and two remote Andean mine sites. Program includes specification and requisitioning of spill response equipment, vessels and HAZMAT trailers, preparation of prevention and response manuals, and training and exercises for field teams and company management.
- Senior Project Coordinator for the development of oil spill response manuals for cleanup organizations, including Clean Sound (WA), Burrard Clean (British Columbia), Great Lakes Response Corp., Eastern Canada Response Corp., ALERT (New Brunswick), and Alaska Chadux Corp.
- Project Manager for the development of oil spill prevention and contingency plan training programs, for facilities and vessels, in Texas, California, Washington, Oregon, and Alaska. Projects entailed preparation of course curricula, handouts, train-the trainers programs, supplementary training videotapes, tabletop exercises, and exercise evaluation guidelines.

*A list of refereed scientific and technical publications is available upon request.*

## AFFILIATIONS

## **ELLIOTT TAYLOR**



American Geophysical Union  
The Oceanography Society  
Marine Technology Society

### **COMMITTEES**

ASTM Committee F-20 (Oil Spill)  
Scientific Advisory Committee for California Oiled Wildlife Care Network (2000 - 2004)  
Sound Experience Board of Directors and Education Committee Chairman (2004-2008)

### **OTHER SKILLS**

Bilingual: English/Spanish