



ROGER R. FAY, Ph.D.

Compliance Manager

rogerfay@tdi-bi.com

PROFESSIONAL HIGHLIGHTS

- Over 40 years' experience in diverse, high profile, and successful marine survey operations
- Over 40 years 'experience in physical, biological, and chemical oceanography; environmental monitoring and remediation.
- Authored 24 technical publications and provided 16 technical presentations at national and international conferences and symposiums.
- Expert in U.S. federal and international regulations regarding maritime operations

EDUCATION

PhD – Biological Oceanography, Texas A&M University, 1973

MS – Biology, Texas Christian University, 1971

BS – Biology, Texas Christian University, 1968

PROFESSIONAL EXPERIENCE

TDI-Brooks International, Inc., College Station, TX, Compliance Manager and Senior Project Manager, 1999 – Present

As Compliance Manager, he is responsible for applying tenants and regulations of the four pillars of marine operations (SOLAS, MARPOL, STCW and ILO MLC) to the TDI-Brooks' fleet of 4 international vessels in a way to ensure safe, legal, efficient and uninterrupted worldwide service of the highest technical survey quality. His responsibilities extend to Flag State, Port State, and Mariner Credentialing issues. As a Senior Project Manager, he provides insight and expertise, both from technical and managerial perspectives into new areas of service and capability development, asset acquisition and management, and serves in a training and mentoring role to ship's crew and technical staff alike. He is also the Company Security Officer (and auditor) and the internal ISM safety auditor under the ISPS and ISM Codes.

McLaren/ Hart ChemRisk, Lake Charles, LA, Office Manager & Supervising Research Scientist, 1998 – 1999

ChemRisk was a risk-assessment/remediation consultancy which provided specialized services to the petro-chemical industry along the New Orleans to Houston corridor.

Geochemical and Environmental Research Group (GERG), College Station, TX, Associate Director for Field Operations, 1981 – 1997

Beginning in 1981 as Assistant Research Scientist and ending as Director of Field Operations for GERG in 1997 following the establishment of TDI Brooks International, Dr Fay acquired a consistently commendable record of achievement and success on nation's premier and most competitive oceanographic, environmental, and field programs (land, sea, air). Government clients - USEPA, NOAA, MMS, ONR, DOE, COE, COE/WES, DOD; all major oil companies, MSRC; state agencies; and foreign governments and agencies.

During the years of GERG's capability development and expansion he was responsible for all phases of field operations including development and writing of our "piston coring manual", the geochemical



exploration technique which became the service backbone of GERG and initially TDI Brooks. Responsible for acquisition and operational management of 143' research vessel, he became well versed in all phases of shipboard and marine field operations and foreign logistics including work on Surface ships, submarines and submersibles, icebreaker and aircraft support. Marketing, proposals, project management, subcontracting, service and capability development, recruiting/training, reporting. and charter/outfitting/direction of international cruises on 16 different ships in 23 different countries or oceans rounded out his duties and accomplishments at Texas A&M.

WWJ, Inc. Applied Research Marine & Earth Sciences, President, 1981 – 1998

TerEco Corporation, College Station, TX, Oceanographer, 1976 – 1981

TerEco specialized in Ocean Disposal Research and monitoring thru the use of an *in-situ* biomonitoring tool/technique for USEPA, the US Army Corps of Engineers and the Louisiana Offshore Oil Port Consortium (LOOP). This work contributed to the federal regulations and monitoring procedures which eventually led to the strict regulation or cessation of all ocean disposal (hazardous wastes, sewage sludge, dredged material, and ocean incineration).

Dames & Moore, Cranford, NJ, Oceanographer, 1974 – 1976

As Principal Investigator, conducted the Sewage Sludge Ocean Disposal EIS for USEPA, a coastal field assessment/investigation for copper mine expansion in southern Peru, and site selection studies on the east and Gulf coasts for conceptual Floating Nuclear Power Plants which had been proposed and engineering studies begun for Atlantic City.

FIELD EXPERIENCE

Participated in more than 100 cruises and has small boat/field experience in excess of that in nearshore studies and surveys.

PROFESSIONAL TRAINING & CERTIFICATIONS

- Designated Person Ashore – Quality Management International, Inc.
- Merchant Mariner Credential – U.S. Coast Guard
- Offshore Water Survival – Falck Safety services
- USCG Seaman's Documents, AB Special and Lifeboatman
- STCW Basic Safety Training VI/1.
- STCW Fast Rescue Craft VI/2-2
- STCW VI/5 - Company Security Officer
- ISPS Marine Security Auditor (ISPS Code)
- ISM Marine Safety Auditor (ISM Code)
- ISO 9000 Lead Auditor
- Designated Person Ashore (ISM Code)
- NS5, American Bureau of Shipping
- ILO MLC 2006, American Bureau of Shipping
- NC and CAR, American Bureau of Shipping
- First Aid & CPR
- NAUI - SCUBA diver, since 1969
- Certified Crane Operator

PUBLICATIONS

1997 d13C in C-3 and C4 Cyperaceae from the State of Guerrero, Southwestern Mexico, *submitted to Canadian Journal of Botany.* (Alcalá-Herrera, J.A. Diego-Pérez, N, Machain Castillo, M.L., Fay, R.)

- 1995 *Mangroves and Shrimp Farms - A study of Compatible Uses of the Coastal Zone in Esmeraldas Province, Ecuador.* AMCHAM NEWS, Publicada por la Camara Ecuatoriano American de Comercio, Guayaquil, Novembre Diciembre, pp 38-39.
- 1993 *Measuring the Aerial Application of Oil Dispersant from Very Large Aircraft at Moderate Altitude.* Proceedings 1993 Arctic and Marine Oilspill Program Calgary, June 7-9, 1993, (Roger R. Fay, Charles P Giammona, Kandace Binkley, F. Rainer Engelhardt)
- 1993 *National Status and Trends Mussel Watch Program: Chlordane Related Compounds in Gulf of Mexico Oysters, 1986-1990.* Environmental Pollution, 82:23-32. (Jose Sericano, T. L. Wade, J. M. Brooks, E.L. Atlas, R. R. Fay, D. L. Wilkinson)
- 1992 *Developments and Applications of Offshore Surface Geochemical Exploration.* Proceedings 1992 CAPA Technology Conference (Houston, TX, May 9-10. (J. M. Brooks, M. C. Kennicutt, G. Zhu, and R. R. Fay)
- 1992 *Oyster Disease and Climate Change. Are Yearly Changes in Perkinsus marinus Parasitism in Oysters (Crassostrea virginica) Controlled by Climatic Cycles in the Gulf of Mexico?* Marine Ecology, 13(3):243-270. (Eric N. Powell, Julie D. Gauthier, Elizabeth A. Wilson, Alanna Nelson, Roger R. Fay, and James M. Brooks).
- 1992 "Volatile organic compounds associated with oil seepage along the northern continental slope of the Gulf of Mexico", pp. 433-454. In: Organic Matter Productivity Accumulation, and Preservation in Recent and Ancient Sediments (Editors: J. Whelan and J. W. Farrington), Columbia University Press. (McDonald, Thomas J., Mahlon C. Kennicutt II, James M. Brooks, and Roger R. Fay)
- 1990 *Volatile Substances and the Toxicity of Ocean-Dumped Industrial Wastes to Phytoplankton.* pp. 197-205. In Ocean Processes in Marine Pollution, Vol. 6 Physical and Chemical Processes: Transport and Transformations (Editors: D.J. Baumgartner and I. W. Duedall) , Krieger Publishing Company (Din, Z. B., R. R Fay and J. M. Brooks)
- 1990 "Dermo" and the El Nino/Southern Oscillation. *Are yearly changes in Perkinsus marinus parasitism in oysters (Crassostrea virginica) controlled by climatic cycles in the Gulf of Mexico?*". Journal of Marine Research . (Powell, W.N., J. D. Gauthier, E. A. Wilson, A. Nelson, R. R. Fay, and J. M. Brooks)
- 1989 "A Rapid Screening Test for the Regulation of Dredged-Material Disposal in the Ocean". In: Oceanic Processes in Marine Pollution, Vol. 3. Marine Waste Management: Science and Policy. Edited by Michael A. Champ and P. Kilho Park. Robert E. Krieger Publishing Co., Malabar, FL, pp. 167-176. (Roger R. Fay).
- 1989 "Distribution of Perkinsus marinus in Gulf Coast oyster populations". Estuaries 12(2): 82-91. (Craig, M. A., E. N. Powell, R. R. Fay and J. M. Brooks).
- 1988 "Distribution of Perkinsus marinus and its effect on reproductive development in oyster populations in the Gulf of Mexico" J. Shellfish Res. 7:205 (Wilson, E.A., E.N. Powell, A.M. Craig, and R.R. Fay)
- 1987 "Chemosynthetic ecosystems, hydrates, and oil seepage on the Gulf of Mexico Slope: An update". EOS 68(18) 498-499 (J.M. Brooks, M.C. Kennicutt II, R.R. Bidigare, T.L. Wade, E. Powell, G.J. Denoux, R.R. Fay, J.J. Childress, C.R. Fisher, I. Rosman, and G. Boland).
- 1985 "Ocean incineration: Contaminant loading and monitoring". In: Wastes in the Ocean, Vol. 5: Deep Sea Waste Disposal (Eds. D. R. Kester et al.), pp. 73-90, John Wiley and Sons, 346 p. (Roger R. Fay and T. A. Wastler).

- 1985 "Vent Type Taxa in a Hydrocarbon Seep Region on the Louisiana Slope". *Nature* 317 (6035): 351-353 (M.C. Kennicutt II, J.M. Brooks, R.R. Bidigare, R.R. Fay, T.L. Wade, and T.J. McDonald).
- 1985 "Hydrates, oil seepage and chemosynthetic ecosystems on the Gulf of Mexico slope". *EOS* 66(10): 106 (J. M. Brooks, M. C. Kennicutt, R. R. Bidigare, and R.R. Fay).
- 1985 "Geochemical Exploration Techniques Applied to the Gulf of Mexico". American Chemical Society National Meeting, Miami, Fl., 29 April - 3 May 1985 (J.M. Brooks, M.C. Kennicutt II, R.R. Fay, and G. J. Denoux).
- 1984 "Thermogenic Gas Hydrates in the Gulf of Mexico". *Science* 225: 409-411. (J.M. Brooks, M.C. Kennicutt II, R.R. Fay, T.J. McDonald, and R.A. Sassen).
- 1980 "Combined Field-Laboratory Method for Chronic Impact Detection in Marine Organisms and Its Application to Dredged Material Disposal". In: *Estuarine and Wetland Processes*, Peter Hamilton and Keith B. MacDonald (eds.), Plenum Publishing Corp., New York (with W.E. Pequegnat and T.A. Wastler).
- 1973 "Significance of Nannoplankton in Primary Production of the Ross Sea, Antarctica During the 1972 Austral Summer". Ph.D. Dissertation, Texas A&M University.
- 1972 "Ecological Studies of Phytoplankton Between New Zealand and the Antarctic". *Antarctic Journal of the U.S.*, 7(5): 174-175 (with S.Z. El-Sayed).
- 1972 "Organochlorine Insecticide Residues in Water, Sediment, and Organisms; Aransas Bay, Texas, September 1969 - June 1970". *Pesticides Monitoring Journal*, 6(2): 97-102 (with L.W. Newland).
- 1972 "The Elution of Some Organochlorine Insecticide Mixtures by Florisil Column Chromatography". *Texas Journal of Science*, 24(2): 191-196 (with L.W. Newland).
- 1971 "The Determination of Organochlorine Insecticides in Aransas Bay". M.S. Thesis, Texas Christian University.

PRESENTATIONS

- 1998 Invited instructor for four lectures on Risk Assessment in Dredging, Environmental Site Assessments, Regulations and Control, Effects of Contaminants on Shrimp Farming at the Fundacion CENAIM/ESPOL training course/workshop January 8-14, 1998, Guayaquil and San Pedro, Ecuador.
- 1997 Why Estuarine Monitoring for Ecuador, or Why Not. Presented at Fourth Ecuadorian Congress on Aquaculture, October 22-27, 1997, Guayaquil Ecuador. (Roger R. Fay, Javier Alcala-Herrera, Terry L. Wade, Ken W. Fucik)
- 1995 Invited presentation to the President of Ecuador and Minister of Agriculture for discussion of the Camara Nacional de Acuicultura report on shrimp farming and mangroves, August 30, 1995, Quito.
- 1993 *Gulf Coast Sediment Organic Contaminant Distribution: Results from the EPA EMAP-NC Program*. Presented at the 14th Annual Meeting, Society of Environmental Toxicology and Chemistry, 14-18 November 1993, Houston, Tx. (Terry L. Wade, J.M. Brooks, T.J. Jackson, J.M. Wong, G.J. Denoux, R.R. Fay, J.K. Summers, J.M. Macauley, and P.T. Heitmuller)
- 1991 *The Galveston Bay National Estuary Program; Shoreline Survey for Point Source Discharges*. Presentation at Galveston Bay Characterization Workshop (Galveston Bay National Estuary Program), 21-23 February 1991 Houston. (Roger R. Fay, R.J. Wilson, Stephen T. Sweet).

- 1991 *Trace Organic Contamination in Galveston Bay: Results from the NOAA National Status and Trends Mussel Watch Program.* Presentation at Galveston Bay Characterization Workshop (Galveston Bay National Estuary Program), 21-23 February 1991 Houston. (Terry L. Wade, James M. Brooks, Jose L. Sericano, T.J. McDonald, B. Garcia-Romero, R.R. Fay, and D.L. Wilkinson)
- 1990 "*Unpermitted Discharges in Galveston Bay*". President's Lecture Series, Mitchell Campus Auditorium, Texas A&M at Galveston, October 23,
- 1987 "*A survey of Perkinsus marinus and Bucephalus sp. infection and reproductive state of Gulf Coast oyster populations.*" Presented at Benthic Ecology Meetings, Raleigh North Carolina, March 7. (Craig, A.M., E.N. Powell, and R.R. Fay).
- 1986 "*Observations on the utility of phytoplankton parameters in ocean disposal assessments*". Proc. of the Oceans '86 Conference, 3, 889-893 Presented at Special Symposium on U.S. National Monitoring Strategies, Sept. 23-25, 1986, Washington, D.C. (Roger R. Fay, M. Schnitzer, R. R. Bidigare, D. B. Cline).
- 1983 "*An Alternate Approach to the Regulation of Dredged Material Disposal in the Ocean*". Presented at the IODS Special Symposium, "Ocean Waste Management: Policy and Strategies", May 2-6, 1983, University of Rhode Island.
- 1981 "*Ocean Incineration: Contaminant Loadings and Monitoring Results, Past Practice and Future Concerns*". Presented at the Third International Ocean Disposal Symposium Oct. 12-16, 1981, Woods Hole, Mass.
- 1974 "*Nannoplankton Production in the Gulf of Mexico and the Antarctic: A Comparison*". Presented at the 37th Annual Meeting of the American Society of Limnology and Oceanography.
- 1973 "*Significance of the Nannoplankton in the Productivity of the Ross Sea, Antarctica*". Presented at the 36th Annual Meeting of the American Society of Limnology and Oceanography.
- 1973 "*The Calculation of Geiger Counting Efficiency for Use in C-14 Primary Productivity Measurements*". Presented at the 76th Annual Meeting of the Texas Academy of Science (with W.J. Hyoun).
- 1972 "*Organochlorine Insecticide Residues in Aransas Bay, Texas*". Presented at the 75th Annual Meeting of the Texas Academy of Science (with L.W. Newland).
- 1972 "*Primary Productivity Investigations in the Ross Sea During the Austral Summer, 1972*". Presented at the 75th Annual Meeting of the Texas Academy of Science.

REPORTS

- 1995 *Environmental Study of the Cayapas-Mataje Area for the Purpose of Recommending Management Strategies, Province of Esmeraldas, Ecuador.* Report to Camara Nacional de Acuacultura, Guayaquil, and presented at Third Ecuadorian Congress on Aquaculture, October 27-November 1, Guayaquil Ecuador
- 1994 *Aerial Dispersant Application: Field Testing Research Program - Alpine, Texas.* Marine Spill Response Corporation, Technical Report Series #94-019, 54 pp + Appen. (Charles P. Giammona, Kandace Binkley, Roger Fay, G. Denoux, M. Champ, R. Geyer, F. Bouse, I. Kirk, D. Gardisser, and R. Jamail)
- 1991 *Shoreline Survey for Unpermitted Discharges to Galveston Bay. Galveston Bay National Estuary Program . GBNEP Publication #12, 45 pages. August 1991.* (Roger R. Fay, Stephen Sweet, and R. J. Wilson)



- 1981 "*Procedural Guide for Designation Surveys of Ocean Dredged Material Disposal Sites*". Corps of Engineers Waterways Experiment Station Technical Report EL-81-1, 268 pp. + Appendices (with W.E. Pequegnat and others).
- 1980 "*Application of the Biototal Ocean Monitor System to a Study of the Impacts of Ocean Dumping of Dredged Material in the New York Bight*". TERECO Tech. Rept. to U.S. Army Corps of Engineers, New York District, D.J. Suszkowski, Project Officer, 61 pp. (with W.E. Pequegnat and others).
- 1979 "*Application of the Biototal Ocean Monitor System to a Preliminary Study of the Impacts of Ocean Dumping of Dredged Material in the New York Bight*". Tech. Rept. to U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS. Contract No. 68-01-4794 (with W.E. Pequegnat and others).
- 1978 "*Development and Application of a Biototal Ocean Monitor System to Studies of the Impacts of Ocean Dumping*". Tech. Rept. to USEPA, Washington, D.C. Contract No. 68-01-2893 and 68-01-4797 (with W.E. Pequegnat and others).

PROFESSIONAL AND HONORARY SOCIETIES (former, not current)

Society of the Sigma Xi
Sigma Gamma Epsilon

AWARDS

Antarctic Service Medal 1984
Eagle Scout *with* Bronze and Gold Palms