



## CURRICULUM VITAE

**ROGER R. FAY**  
**July 2001**

### PROFESSIONAL INTERESTS:

- Marine and International Field Operations
- Ecological Risk Assessment
- Environmental Impact in Marine Ecosystems
- RCRA Facilities Investigations
- Personnel Development
- Natural Resource Damage Assessments
- Multidisciplinary Project Administration and Management

### FORMAL EDUCATION:

- *Texas Christian University*  
B.S. Biology, 1968
- *Texas Christian University*  
M.S. Biology, 1971
- **Texas A&M University**  
Ph.D. Biological Oceanography, 1973

### HONORS, MEMBERSHIPS, AFFILIATIONS:

- Society of the Sigma Xi
- Sigma Gamma Epsilon
- Antarctic Service Medal
- American Men and Women of Science
- Aircraft Owners & Pilots Association

### PROFESSIONAL EXPERIENCE:

- 1999-present Project Manager, TDI-Brooks International
  - 1998-1999 Supervising Environmental Scientist, McLaren/Hart, Inc. Office Manager, Lake Charles, Louisiana
  - 1997-1998 Teacher, Bryan and College Station Independent School Districts
  - 1992-1997 Associate Director, Geochemical & Environmental Research Group, Texas A&M University
  - 1986-1992 Manager, Field Operations, Geochemical & Environmental Research Group, Texas A&M University
  - 1981-1986 Assistant Research Scientist, Department of Oceanography, Texas A&M University
  - 1981-1998 President, WWJ, Inc. Applied Research Marine & Earth Sciences
- 
-



- 1981-1997 Member, Graduate Faculty, Texas A&M University
- 1976-1981 Oceanographer, TerEco Corporation, College Station TX
- 1974-1976 Oceanographer, Dames & Moore, Cranford New Jersey, Marine Services Group

## **PROJECT EXPERIENCE:**

### **Supervising Environmental Scientist and Office Manager McLaren-Hart/ChemRisk**

- Business development in environmental risk assessment for Gulf Coast region
- Management and oversight of environmental risk assessment projects for chemical and petroleum industry
- Mentor and develop junior staff; identify recruit and hire staff to meet office business objectives

### **Director of Field Operations for the Geochemical and Environmental Research Group 1981-1997**

- Development, maintenance, and management of the group's extensive field capabilities.
- Conducted extended oceanographic programs for all the government funding agencies supporting oceanographic and environmental research, as well as for all the major oil companies and industry in:

Gulf of Mexico	both US coasts	Aruba
Gulf of Alaska	Chukchi Sea	Bering Sea
Beaufort Sea	Laptev Sea	Kara Sea
China	California	Iceland
Norway	Scotland	Yemen
Gulf of Suez	North Sea	Nigeria
Venezuela	South China Sea	Gabon
Ivory Coast	Angola	Namibia
Ecuador	Brazil	Russian Arctic

- Operational management of the R/V J.W. Powell, the USGS oceanographic vessel, which was acquired through his efforts under a 5 year loan beginning in January 1991 and donated to Texas A&M Research Foundation in 1997.

### **Marketing, technical and management responsibilities on a number of large research programs of national significance.**

- Minerals Management Service LATEX project (largest physical oceanographic study of the Gulf of Mexico ever undertaken), Principal Investigator for field operations and logistical support
- MMS GOOMEX Project, (PI for field operations and logistical support)



- NOAA - Status and Trends project for the Gulf of Mexico, since 1985 and beginning in 1994 for the entire US program on all three coasts (1985-97), PI Field Sampling
- USEPA EMAP-NC program for the Gulf of Mexico (3 years)
- Galveston Bay National Estuary Project investigation into unpermitted discharges
- Minerals Management Service MAFLA Ecosystem Study, Principal Investigator for field operations and logistical support
- Department of Energy Strategic Petroleum Reserve project at West Hackberry (Principal Investigator for phytoplankton studies)
- Minerals Management Service Gulf of Mexico Slope Study, Principal Investigator for field operations and logistical support
- Environmental studies (site evaluations and monitoring) for shrimp farming in Ecuador,
- Project direction of aerial application tests of oil dispersants for Marine Spill Response Corporation, Texas General Land Office, and Oil Spill Service Centre (U.K.)
- Office of Naval Research sponsored cruises into the Russian Arctic examining organic and radionuclide contamination (three consecutive seasons on a Russian vessel and the only such data set to date out of the former Soviet Union), Logistical arrangements and support

#### **Biological Oceanographer with Tereco Corporation 1976 - 81**

- Principal Investigator and Project Manager for the benthic macroinfauna work unit of the NMFS sponsored study, "Ecological Effects of Energy Development on Reef Fishes and Benthos Populations in the Flower Garden Banks of the Gulf of Mexico".
- Project Manager for bioassay, bioaccumulation, and chemical analyses in support of a Corps of Engineers dredging permit at Brownsville, Texas.
- Project Manager and Principal Investigator for the ocean incineration aspect of an EIS addressing the safe disposal of all government owned DDT located throughout the world. (Department of Defense)
- Principal Investigator for biology on an environmental assessment of the proposed use of an offshore platform as a ocean incinerator for hazardous wastes. (USEPA, Headquarters, Washington)
- Data Analyst for in situ chronic bioassays at the brine diffuser for the nation's first supertanker terminal offshore of Louisiana. (Louisiana Offshore Oil Port, LOOP)
- Project Manager and Field Manager for a two-week bioassay/monitoring investigation of the New York Mud Dumpsite and Lower New York Harbor. (USEPA and Corps of Engineers)
- Data Analyst for in situ bioassays along the South Texas coast assessing the chronic or sublethal impact of the IXTOC oil spill in the Gulf of Mexico. (USEPA)



- Project Manager and Field Manager for a chemical characterization of water, particulates, sediments, and organisms from the Chacahoula brine diffuser site in conjunction with the Department of Energy's Strategic Petroleum Resource Program.
- Project Manager for a photographic/TV reconnaissance survey of marine hard-bottom habitats in the Eastern Gulf of Mexico.
- Principal Investigator for the site selection and environmental impact statement of an ocean incineration site for the Mid-Atlantic Bight. (USEPA)
- Field Manager for a three-week monitoring for the Philadelphia sewage sludge dump site, at which in situ bioassays were conducted. (USEPA)
- Project Manager for a heavy metal characterization of water, sediments, and organisms for the Brazos River.
- Conducted in situ bioassays at a field monitoring of the at-sea incineration of Shell Chemical Company's organochloride waste.
- Participated in four cruises performing field tests on the Biotal Ocean Monitor, an in situ device for conducting bioassays in the field.
- A contributing author to the Corps of Engineers Waterways Experiment Station funded study, "Assessment of the Potential Impact of Dredged Material Disposal in the Open Ocean".

#### **Oceanographer with Dames & Moore 1974-76**

- Project Manager and a Principal Investigator on a multi-disciplinary environmental assessment program for a proposed dam and reservoir on the Raritan River estuary. (Corps of Engineers).
- Principal Investigator for biology on a study to determine the impacts on the benthos and fishery resulting from the ocean discharge of mine tailings in southern Peru. (Southern Peru Copper Corporation).
- Principal Investigator for biology in the preparation of the environmental impact statement for sewage sludge disposal in the New York Bight (USEPA, Region II).

#### **Other D&M project experience included:**

- Environmental aspects of two wide-area multidisciplinary site selections for floating nuclear power plants.
  - Thermal surveys for Consolidated Edison on the Hudson River.
  - Bathymetric surveys on the Delaware River for Public Service Electric and Gas.
  - LNG regasification plant siting studies.
- 
-



## **CONTINUING EDUCATION:**

*Hewlett -Packard*  
The Process of Management  
San Diego, CA  
January 24-27, 1995

***Southern Methodist University***  
*Management Development Center*  
*Edwin L Cox School of Business*  
How to Coach and Counsel  
September 13 & 14, 1994

*Leadership Management Incorporated*  
Effective Supervisory Management course  
1991

### *Fred Pryor Seminars*

- Management Problems of the Technical Person in a Leadership Role
- Project Management
- Coaching Skills for Managers and supervisors

### *Texas A&M University, Human Resources Department*

- Continuous Improvement Workshop, Improving Service Processes and Enhancing Job Satisfaction, September 15, 1995
- Positive Discipline Workshop, June May 12,1992
- Personnel Management for Supervisors Workshop, June 9-10, 1992
- Compliance with Equal Employment Opportunity Law for supervisors and Managers
- Training Program for Worker's Compensation

## **OTHER TRAINING, CERTIFICATIONS, LICENSES:**

- Commercial, Instrument rated pilot (single engine, land), 2000 + hours and own an airplane which is used primarily in my business.
  - Commercial Driving License (semi's, double and triple trailers, passengers)
  - NAUI diver certification (since 1969)
  - Training certificate from Texas Engineering Extension Service, Construction Equipment Training Division, in Rigging and Crane Operations
  - Boy Scouts of America - Life Guard
  - American Red Cross Basic First Aid and CPR (current)
- 
-



---

---

## **PUBLICATIONS AND 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 Alcalá-Herrera, Terry L. Wade, Ken W. Fucik)
- 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, Noviembre Diciembre, pp 38-39.
- 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.
- 1995 Environmental Study of the Cayapas-Mataje Area for the Purpose of Recommending Management Strategies, Province of Esmeraldas, Ecuador. Report to Camara Nacional de Acuicultura, 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)
- 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)
- 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)
- 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)
- 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)
- 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)
- 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)
- 1990 "Unpermitted Discharges in Galveston Bay". President's Lecture Series, Mitchell Campus Auditorium, Texas A&M at Galveston, October 23, 1990
- 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 "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).



- 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).
- 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).
- 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).
- 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.
- 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 "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).
- 1980 "Application of the Biotol Ocean Monitor System to a Study of the Impacts of Ocean Dumping of Dredged Material in the New York Bight". TEREKO 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 Biotol 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 Biotol 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).
- 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).
- 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 "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.
- 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.
- 
-