



## **CURRICULUM VITAE**

**SUSANNE J. MCDONALD**  
**February 2002**

### **PROFESSIONAL EXPERIENCE:**

- Quality Manager: B&B Laboratories, September 1998 – present.
- Health, Safety and Environment Manager, TDI-Brooks 1998-present.
- Research Scientist: Department of Civil Engineering, Texas A&M University, September 1996 – September 1998 (taught Industrial Hygiene, Industrial Toxicology, Water Quality).
- Assistant Research Scientist: Geochemical and Environmental Research Group, Texas A&M University, October 1992 - August 1996.
- Research Associate: Geochemical and Environmental Research Group, Texas A&M University, April 1990 - September 1992.
- Graduate Assistant Research: Department of Oceanography, Texas A&M University, September 1985 - March 1990.
- Atomic Absorption Spectroscopy Consultant: Ocean Drilling Project, Texas A&M University, January - April 1988.
- Atomic Absorption Spectroscopy Consultant: O.I. Corporation, October 1987 - January 1988.
- Laboratory Technician (part-time): Trace metal analyses, Deuel and Zahray Laboratory, October 1984 – December 1986.
- Graduate Assistant Non-Teaching: Department of Oceanography, Texas A&M University, September 1984 – May 1985.
- Research Associate: Applied Marine Research Laboratory, Old Dominion University, Water Quality Laboratory Supervisor, June 1983 - August 1984.
- Research Associate: U.S. Army Corps of Engineers, contracts, Old Dominion University, July 1980 - May 1983.
- Graduate Research Assistant: General Biology, developed computer-assisted and computer-managed instruction, Old Dominion University, August 1979 - May 1980.
- Graduate Teaching Assistant: General Biology, Department of Biology, Old Dominion University, August 1977 - May 1979.
- Undergraduate Research Assistant: Recipient of the National Science Foundation Undergraduate Research Award, Studied phytoplankton assemblages in Lake Drummond in the Dismal Swamp, June 1977.

### **FORMAL EDUCATION:**

- *Old Dominion University*  
Norfolk, Virginia  
B.S. Biology, May 1977  
cum laude
- *Old Dominion University*  
Norfolk, Virginia  
M.S. Biology, emphasis in Marine Biology,  
December 1981
- *Texas A&M University*  
College Station, Texas  
Ph.D. Oceanography, May 1990



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## PUBLICATIONS:

- Brooks, J.M., E.N. Powell, M.C. Kennicutt, II, R.S. Carney, I. Rosman, S.J. McDonald, R.R. Bidigare and T.L. Wade. 1988. Gulf of Mexico hydrocarbon seep ecosystem studies. IN: NOAA Symp. Series for Undersea Research, pp. 119-135.
  - Kennicutt II, M.C., J.M. Brooks, R.R. Bidigare, S.J. McDonald, D.L. Adkinson and S.A. Macko. 1988. An upper slope "cold" seep community: Northern California. *Limnology and Oceanography* 34: 635-640.
  - Brooks, J.M., D.A. Wiesenburg, H. Roberts, R.S. Carney, I.R. MacDonald, C.R. Fisher, N.L. Guinasso, Jr., W.W. Sager, S.J. McDonald, R.A. Burke, Jr., P. Aharon and T. J. Bright. 1990. Salt, seeps and symbiosis in the Gulf of Mexico. *EOS* 71: 1772-1773.
  - MacDonald, I.R., W.R. Callender, R.A. Burke, Jr., S.J. McDonald and R.S. Carney. 1990. Fine-scale distribution of methanotrophic mussels at a Louisiana cold seep. *Prog. Oceanog.* 24:15-24.
  - McDonald, S.J. Benzo[a]pyrene metabolism in a deep sea mussel associated with natural petroleum seeps in the Gulf of Mexico. Ph.D. dissertation, Texas A & M University, College Station, Tx. May 1990.
  - McDonald, S.J., T.L. Wade, R.W. Estabrook, E.N. Powell, M.C. Kennicutt II, and J.M. Brooks. 1990. Benzo[a]pyrene metabolism in oysters from Florida sites in NOAA's Status and Trends Monitoring Program. *Journal of Shellfish Research*, 8: 452.
  - McDonald, S.J., T.L. Wade, J.M. Brooks and T.J. McDonald. 1991. Assessing the exposure of fish to a petroleum spill in Galveston Bay, Texas. In: *Proceedings First International Conference Water Pollution*, Southampton, UK. L.C. Wrobel and C.A. Brebba (eds), 707-718.
  - Kennicutt II, M.C., T.J. McDonald, G.J. Denoux and S.J. McDonald. 1992. Hydrocarbon contamination on the Antarctic Peninsula. I. Arthur Harbor-Subtidal Sediment. *Mar. Poll. Bull.* 24:400-506.
  - Kennicutt II, M.C., T.J. McDonald, G.J. Denoux and S.J. McDonald. 1992. Hydrocarbon contamination on the Antarctic peninsula. I. Arthur Harbor-Inter- and subtidal limpets (*Nacella concinna*). *Mar. Poll. Bull.* 24: 506-511.
  - McDonald, S.J., M.C. Kennicutt II and J.M. Brooks. 1992. Evidence of polycyclic aromatic hydrocarbon exposure in fish from the Antarctic Peninsula. *Mar. Poll. Bull.* 25: 213-217.
  - McDonald, S.J., M.C. Kennicutt II, J.L. Sericano, H. Liu, T.L. Wade, and S.H. Safe. 1994. Correlation between bioassay-derived P4501A1 induction activity and chemical analysis of clam (*Laternula elliptica*) extracts from McMurdo Sound, Antarctic. *Chemosphere* 28:2237-2248.
  - Kennicutt II, M.C. and S.J. McDonald. 1995. Marine Disturbance-Contaminants. In *Foundations for Ecosystem Research in the Western Antarctic Peninsula Region* (R. Ross, E. Hoffmann and L. Quetin, eds.).
  - Willett, K., M. Steinberg, J. Thomsen, T.R. Narasimhan, S. Safe, S. McDonald, K. Beatty and M.C. Kennicutt II. 1995. Exposure of killifish to benzo[a]pyrene: comparative metabolism, DNA adduct formation and aryl hydrocarbon (Ah) receptor agonist activities. *Comp. Biochem. Physiol.* 112B:93-103.
  - Kennicutt II, M.C., S.J. McDonald, J.L. Sericano, P. Boothe, J. Oliver, S. Safe, B.J. Presley, H. Liu, D. Wolfe, T.L. Wade, A. Crockett, and D. Bockus. 1995. Human contamination of the marine environment - Arthur Harbor and McMurdo Sound. *Environ. Sci. Technol.* 29:1279-1287.
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- McDonald, S.J., M.C. Kennicutt II, H. Liu, and S.H. Safe. 1995. Assessing aromatic hydrocarbon exposure in Antarctic fish captured near Palmer and McMurdo Stations, Antarctic. Arch. Environ. Contam. Toxicol. 29:232-240.
- Yu, Y., T.L. Wade, J. Fang, S. McDonald, and J.M. Brooks. 1995. Gas chromatographic-mass spectrometric analysis of polycyclic aromatic hydrocarbon metabolites in Antarctic fish (*Notothenia gibberifrons*) injected with diesel fuel Arctic. Arch. Environ. Contam. Toxicol. 29:241-246.
- McDonald, S.J., K.L. Willett, J. Thomsen, K.B. Beatty, K. Connor, T.R. Narasimhan, S.H. Safe, and C.M. Erickson. 1996. GOOMEX Phase I: detoxification responses. Can. J. Fish. Aquatic Sci. 53:2606-2617.
- McDonald, S.J., K.L. Willett, S.H. Safe, K.B. Beatty, M. Steinberg, P. Mayor, and M.C. Keninicutt II. 1996. Validation of bioassays for assessing the contamination of marine environments. In: " Polycyclic Aromatic Coumpounds: Chemistry, Biology and Environmental Impact." Proceedings of the 15th International Symposium on Polycyclic Aromatic Coupounds, Belgirate, Italy, pp. 57-65.
- Willett, K.L., S.J. McDonald, M.A. Steinber, K.B. Beatty, M.C.Kennicutt and S.A. Safe. 1997. Biomarker sensitivity for polynuclear aromatic hydrocarbon contamination in two marine fish species collected in Galveston Bay, Texas. Environ. Tox. And Chem.: 16:1472-1479.
- Mueller, D.C., J.S. Bonner, S.J. McDonald, and R.L Autenrieth. 1999. Acute toxicity of estuarine weland sediments contaminated by petroleum. Environ. Toxicol. 20:875-882.
- Mueller, D.C., J.S. Bonner, S.J. McDonald, R.L Autenrieth, K.C. Donnelly, K. Lee, K. Doe and J. Anderson. (submitted). The use of toxicity bioassays to monitor the recovery of oiled wetland sediments.

**ADDITIONAL TRAINING:**

OSHA Injury and Illness Record Keeping Training Session: February 2002  
Behavioral Based Safety Now Conference: October 2001  
BP HSE Contractor HSE Symposium: May 2001.: