

**PETER LEE deFUR**  
Curriculum Vitae –August 2009

Environmental Stewardship Concepts  
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**EDUCATION:**

Ph.D., Biology, The University of Calgary, Calgary, Alberta, Canada, 1980.  
M.A., Biology, The College of William and Mary, Williamsburg, VA, 1977.  
B.S., Biology, The College of William and Mary, Williamsburg, VA, 1972.

***PROFESSIONAL EXPERIENCE:***

**President, Environmental Stewardship Concepts, 1996- present**

Affiliate Associate Professor, Center for Environmental Studies, Virginia Commonwealth Univ.,  
Richmond, Va., 1995-Present

Senior Consulting Expert to the EPA Superfund National Ombudsman Office, 2000- 2001.

Adjunct Senior Scientist, Environmental Defense Fund, Washington, DC.1996-1997

Senior Scientist, Environmental Defense Fund, Washington, DC., 1992-1996

Scientist, Virginia Office of the Environmental Defense Fund, Richmond, VA. 1990 -1991

AAAS Environmental Science Fellow, U.S Environmental Protection Agency, Washington, DC. June  
Aug 1989

Associate Professor, member of the Graduate faculty, Dept Biological Sciences, Southeastern Louisiana  
University, Hammond, LA. Aug 1988 \_ Dec 1989

Visiting Investigator, Smithsonian Environmental Research Center, Edgewater,MD July 1987-Aug 1988

Assistant Professor, member of the Environmental Biology and Public Policy Faculty, Department of  
Biology, George Mason University, Fairfax, VA. September 1981-1988

Postdoctoral Fellow, Division of Physiology, Faculty of Medicine, University of Calgary,  
Calgary, Alberta, Canada. Sept 1980 - Aug 1981

Research Associate, Bamfield Marine Station, Bamfield, British Columbia, Canada. July - August 1980

Ph.D. Candidate, Department of Biology, The University of Calgary, Calgary, Alberta, Canada. 1977-80

Graduate Assistant, Dept of Biology, The College of William and Mary, Williamsburg, VA 1975-1977

Associate Research Scientist, Ecological Analysts, Inc., Baltimore, MD. 1974-1975

Assistant Research Scientist, Department of Geography and Environmental Engineering, The Johns  
Hopkins University, Baltimore, MD. 1972 - 1974

## ***PROFESSIONAL ACTIVITIES:***

Delegate for Virginia, Mid-Atlantic Fisheries Management Council, 2009-2012  
Chair, Public Affairs Committee of the Society for Integrative and Comparative Biology, 2008-2010  
Chair, Government Relations Committee of the American Lung Association of Virginia, 2007-present  
Member, State Advisory Board for Greenhouse Gases, Virginia Air Pollution Control Board. 2006-2007  
Government Relations Committee, American Lung Association of Virginia, member since 1998  
Member, Environmental Protection Agency SAB review panel on 3 MRA; 2003-2004  
Member, NAS/NRC Panel to Review the Everglades Critical Ecosystems Science Initiative, 2002-2003  
Member, Federal Advisory Committee to EPA: Endocrine Disruptor Methods Validation Subcommittee  
2001-3  
President, Association for Science in the Public Interest, 1999-2002  
Member, Board of Directors, Science and Environmental Health Network 1996- 2003  
Chair of the Board of Directors, Science and Environmental Health Network, 1998-2000.  
Member, Advisory Committee to the Board of the Coalition to Restore Coastal Louisiana, 2002-2005  
Member, SETAC workshop on Uncertainty in Ecological Risks of Pesticides, February 2002, Pensacola  
Member, NAS/NRC Study Committee on Agricultural Exotic Species, 1999-2001.  
Member, Board of Directors, Coalition to Restore Coastal Louisiana, 1990 - 2001.  
Member, National Academy of Sciences, National Research Council (NAS/NRC) Study Committee on  
Diisomethyl Propionate, 1999- 2000.  
Member, Chemical Manufacturers Association Technical Implementation Panel on Human Health  
Exposure Assessment, 1999-2000.  
Co-Chair, Peer Review of the EPA Dioxin Reassessment, Washington DC, July 2000.  
Chair, Peer Review of the EPA Ecological Risk Assessment for PCB's in the Hudson River, Mar- June  
2000.  
Scientific chair, Society for Environmental Toxicology and Chemistry (SETAC) workshop on endocrine  
disruptors in invertebrates, 1997- 1999; workshop December 1998, Amsterdam.  
Chair, Peer Review of EPA (ORD) Risk Characterization Handbook, Washington DC, March 1999.  
Chair, Peer Review of EPA (OWOW) Water Quality Criteria Derivation Methodology for Human  
Health, Alexandria, VA May 1999.  
Peer Reviewer of USDA ORACBA programmatic risk assessments, July 1999.  
Chair, Peer Review of EPA (ORD) Research Program for Endocrine Disruptors, July 1997.  
Member, Peer Review of EPA (ORD) Strategy for Determining Toxic Equivalency Factors for Dioxin  
in Wildlife, Chicago, IL January 1997.  
Member, Endocrine Disruptor Screening and Testing Advisory Committee, official federal advisory  
committee to the EPA, 1996-1998.  
Member, Board on Environmental Studies and Toxicology of the NAS/NRC, 1996-1999.  
Steering Committee, SETAC workshop - Multiple Stressors in Ecological Risk Assessment, Sept 1997  
Steering Committee, SETAC workshop -Reproductive and Developmental Toxicants in Oviparous  
Vertebrates July 1997  
Steering Committee, SETAC workshop Ecological Risk Management Framework, June 1997  
Member, Steering Committee for UN Environment Program workshop on a global assessment for  
Endocrine Disrupting Chemicals, 1996-7.  
Chair, Ecological Subcommittee, Maryland Oyster Roundtable Steering Committee, 1994 -1996  
Member, drafting team for the EPA dioxin reassessment, Chapter 9, 1996

Consultant, EPA Science Advisory Board, September 1992 - 1995.  
Co-chair, Public Affairs Committee, Society for Integrative and Comparative Biology, 1995- 1996  
Steering Committee, SETAC workshop, Ecological Risk Assessment Modeling System, May 1994-97  
Member, Scientific Review Panel for EPA revision of the IRIS listing of the cancer dose-response potency for PCB mixtures; May, 1996.  
NAS/NRC Committee on Risk Characterization, 1994 - 1996.  
Member, Advisory Committee, and Affiliate Associate Professor, Center for Environmental Studies, Virginia Commonwealth University, Richmond, VA. 1993- 1996.  
Member, Scientific Review panel, WTI Hazardous Waste Incinerator, January 1996  
Co-Organizer, Symposium for American Society of Zoologists, December 1995; “Molecules to Mudflats: Biological Adaptations to Estuaries.”  
Member, Review Panel, EPA Ecological Risk Assessment National Guidance, Dec 1995  
Steering Committee: Water Quality 2000; 1991 - 1995.  
Toxic Constituents Challenge Group- Water Quality 2000; 1991.  
Member, Maryland Oyster Roundtable, 1993-1994.  
Co-organizer, “Biological Adaptations in Estuaries: from Molecules to Mudflats”, symposium at the ERF biennial meeting, 1993, Hilton Head, SC  
External invited reviewer, EPA Scientific Reassessment of Dioxin, 1992-93.  
Member, U.S. EPA Science Advisory Board Ad Hoc Committee on the Great Lakes Water Quality Initiative, January 1992 - 1993.  
Member, Steering Committee, EPA Wildlife Criteria Conference, Charlottesville, VA, April 12-15, 1992.  
Member, Research Advisory Committee, Virginia Pesticide Control Board, 1991-1992.  
Member, EPA Independent Panel to review Chesapeake Bay Program non-point source pollution program, 1990.  
Member, Japanese Oyster Review Committee, Virginia Marine Resources Commission, 1990 - 1991.  
Vice-President, Board of Directors, Virginia Conservation Network, 1994 - 1995.  
Member, Board of Directors, Conservation Council of Virginia, 1992 - 1994.

External Reviewer, Ecotoxicology  
Associate editor, Journal of Experimental Zoology, 1994-1996.  
External reviewer, Physiological Zoology  
External reviewer, Journal of Crustacean Biology  
External reviewer, Biological Bulletin  
External reviewer, Environmental Research

### ***SELECTED FUNDING***

Badger Army Ammunition Plant, Technical Advisor to the Restoration Advisory Board, January 2009-present.  
Portland Harbor Superfund Site, Technical Advisor for the Willamette Riverkeeper, September 2008-current.  
Neuse River Foundation, Technical Assistance Grant for advisory services, 2007-current.  
Virginia Department of Environmental Quality grant to VCU; 2007- 2008; “Health Risks from Methyl Mercury Contaminated Fish Consumption in Eastern Virginia,” Principal Investigator  
Center for Justice, Technical Assistance Grant for advisory services, 2005-current.

Clean Water Action Council, Technical Assistant Grant for advisory services, 2006-current.  
Citizens for Safe Water Around Badger, Technical Assistant Grant for advisory services, 2004-current.  
Delaware River Basin Commission, Contract to provide technical services on the TMDL for PCBs, 2004-current.  
Fort Ord Environmental Justice Network Technical Assistant Grant for advisory services, 2004-current.  
Spring Valley RAB Technical Assistance Grant for advisory services, 2002-current.  
Housatonic River Initiative Technical Assistance Grant for advisory services, 2002-current.  
Lower Duwamish River Group, Technical Assistance Grant for advisory services, 2002-current.  
Olympic Environmental Council, Public Participation grant for technical services, 1999- 2000 and 2001-current.  
Indiana Department of Environmental Management to PL deFur, 2001-2003, technical services, \$75,000  
World Wildlife Fund to P L deFur for Endocrine Disruptor Screening and Testing workgroup 1999  
Starfire Fund award to VCU, 1996-1997.  
W.A. Jones Foundation grant to VCU, 1996-1997; 1997-98  
C.S. Mott Foundation grant to EDF, 1994-1996.  
Bauman Foundation grant to EDF, 1994, 1995.  
Healy Foundation grant to EDF, 1993.  
Beirne Carter Foundation grant to EDF, 1991.  
Virginia Sea Grant, Investigator Initiated Research, 1987-90.  
Jeffress Foundation grant, 1986-7.

### ***RECENT RESEARCH PROJECTS***

Environmental Policy for hormone disrupting chemicals in the environment  
Assessing environmental endocrine disruptors in aquatic systems  
Effects of medical waste disposal practices on human and environmental health  
Effects of hormone disrupting chemicals on children's health  
Coastal eutrophication in U.S. waters—distribution and impacts.  
Review of the EPA reassessment of the health and environmental risks of dioxin and related compounds, and development of policy recommendations, 1991 - Present.  
Examination of federal policies and practice of risk assessment, 1993 - Present.  
Mapping environmental contaminants in the Arctic; EDF research project, 1994.  
Impacts and control of non-native species in aquatic ecosystems, 1991 - Present.  
Effects of low oxygen (hypoxia) and anoxia on aquatic organisms of the Chesapeake Bay, 1982 - 1988.  
Research on the effects of environmental variations on estuarine invertebrates in Chesapeake Bay.

### **TESTIMONY**

Expert Witness for Gonye v. Toll Bros. in the Delaware State Court, 2008  
Expert for NRDC concerning maintenance dredging in Newark Bay, 2005  
Expert witness, state appeal for DuPont/Delisle air permits. Mississippi, 2004.  
Expert witness, state hearing on Chemical Weapons Incinerator, Umatilla OR, November 2002  
Expert witness, federal hearing on the Chemical Weapons Incinerator at Tooele, Utah regarding risk assessment for emissions from incinerator; July 1996; September 1999.  
The NOAA Budget: Research and Program Needs and Priorities. Testimony of the Environmental

Defense Fund before the House Subcommittee on Fisheries, House Merchant Marine and Fisheries Committee, March 1994.

Risk Assessment at EPA, with comments on H.R. 2910. Testimony before the House Subcommittee on Transportation and Hazardous Materials of the Energy and Commerce Committee, November 1993.

Research Needs in the Clean Water Act Reauthorization, H.R. 1116. Testimony before the House Subcommittee on Technology, Environment and Aviation of the Science and Technology Committee, Sept. 1993.

Environmental and ecological impacts of dioxin discharged in pulp mill effluent. Testimony before the Maine Board of Environmental Protection, November 1992.

National Water Quality Standards for Dioxin and H.R. 2084. Testimony before the Water Resources Subcommittee of the House Committee on Public Works and Transportation, May 1991.

Wetland Restoration as Part of the Corps Reauthorization Bill. Testimony before the Water Resources Subcommittee of the House Committee on Public Works and Transportation, June 1990.

Expert witness on Biology and Crustacean Biology before the Louisiana state court re: Shell dredging in Lake Pontchartrain, October 1989.

***PROFESSIONAL SOCIETIES:***

International Association of Facilitators

Society for Integrative and Comparative Biology (formerly American Society of Zoologists)

Society of Environmental Toxicology and Chemistry

Atlantic Estuarine Research Society

Estuarine Research Federation

***Professional Service:***

Steering Committees for SETAC workshops on Invertebrate Endocrine Disruptors Multiple Stressors; Reproductive and Developmental Toxicity of Oviparous Vertebrates; Ecological Risk Management Public Affairs Committee of SICB/ASZ, 1993 – 1997 and 2008 - 2010

Organizer, ASZ symposium: Molecules to Mudflats: Biological Adaptations in Estuaries.

Co-organizer of ASZ symposium on Environmental Endocrine Disrupters, January 1995

Member of SETAC Pellston workshop on ecological risk decisions

Organizer of Estuarine Research Federation symposium on Coastal Hypoxia, November 1993

***COURSES TAUGHT:***

**Undergraduate**

Introductory Zoology

General Physiology: lecture and lab

Animal Physiology: lecture and lab

Scientific Thought and Process (for non\_majors)

Human Anatomy and Physiology (for non-majors)

Special Skills in the Life Sciences: “Introduction to Teaching Neuromuscular Physiology”

Human Physiology

## **Graduate**

Physiology of Animals in Polluted Habitats  
Survey of Environmental Studies  
Ecological Risk Assessment  
Physiological Ecology  
Seminar in Environmental Biology  
    “Environmental Justice”  
    “The Evolution from Water to Land”  
    “Acid\_base Balance of Body Fluids”  
Environmental Physiology  
Comparative Animal Physiology  
Environmental Toxicology – Endocrine Disruptors; jointly with Dr. J. Rosecrans

### **GRADUATE STUDENTS:**

Thesis Director, James Martin: VCU, “Effects of Hypercapnic Hypoxia on Freshwater Blue Crabs,” May 2009.  
Thesis Director for Carrie Fehl Hagin, Virginia Commonwealth Univ.  
Thesis director for Lisa Foersom,, thesis title: “Effects of Endosulfan on Molting in Juvenile Red Swamp Crayfish, *Procambarus clarki*.” May 2001, Virginia Commonwealth Univ.  
Thesis director for Mark Huff, thesis title: “Alternatives to the Use of Risk Assessment in Environmental Management: Application to Medical Waste.” December 2000. Virginia Commonwealth Univ.  
Thesis director for Rene Hypes, thesis title: “Effects of Hypoxia and Hypercapnia on Blue Crabs, *Callinectes sapidus*, in the York River, Virginia.” December 1999. Virginia Commonwealth Univ.  
Thesis director for Anita Pease, title: “Effects of Long Term Hypoxia on Respiration in blue crabs, *Callinectes sapidus*.” May 1988. George Mason Univ.  
Dissertation director for Les Touart, title: “Effects of Insect Growth Regulators on Aquatic Crustaceans.” 1987-1988. George Mason Univ.  
Thesis director for Nancy Patterson, thesis title “Effects of Acid Rain on Red Swamp Crayfish, *Procambarus clarki*.” May 1984 George Mason Univ.

### **HONORS AND AWARDS:**

AAAS Environmental Science and Engineering Fellowship, June - August 1989.  
Tri Beta (GMU Chapter), Faculty Award 1986.  
The Crustacean Society: 1985 Outstanding Paper Award.  
American Society of Zoologists Travel Award, First International Congress of Comparative Physiology and Biochemistry, Liege, Belgium, 1984.  
Alberta Heritage Foundation for Medical Research Postdoctoral Fellowship, September 1980 - August 1981.  
University of Calgary Dissertation Fellowship, 1980 - 1981.  
Province of Alberta Graduate Scholarship: May 1979 - April 1980.  
Province of Alberta Graduate Scholarship: January - April 1979.

## PUBLICATIONS:

- P.L. deFur, G.W. Evans, E.A.C. Hubal, A.D. Kyle, R.A. Morello-Frosch, and D.R. Williams. 2007. Vulnerability as a function of individual and group resources in cumulative risk assessment. *Environmental Health Perspectives*. 115(5):817-824.
- Hypes, R. and P.L. deFur. Effects of hypercapnic hypoxia on blue crabs, *Callinectes sapidus*. In Prep.
- deFur, P.L. 2004. Use of invertebrates in testing for endocrine disruptors. *Institute for Laboratory Animal Research Journal*. 45 (4): 484-493
- Foersom, L and P L deFur. Effects of endosufan on molting in juvenile crayfish, *Procambarus clarkii*. In Prep.
- deFur, P.L. and M.Kaszuba. 2002. Implementing the Precautionary Principle. *Science of the Total Environment*. 288: 155-165
- deFur, P.L and D. P. Clarke. 2001. Selecting, implementing and tracking ecological risk management decisions: Necessary elements of an effective decision-making framework. Ch 5, pp 57-74 In: R. Stahl et al., eds. Risk Management: Ecological Risk-Based Decision-Making. SETAC Press, Pensacola, FL.
- Stahl, R., R.A. Bachman, A.L. Barton, J.R. Clark, P.L. deFur, S.J. Ells, C.A. Pittinger, M.W. Slimak and R.S. Wentsel eds. 2001. Risk Management: Ecological Risk-Based Decision-Making. SETAC Press, Pensacola, FL. 202 p
- deFur, P.L. and L. Foersom. 2000. Can What We Don't Know Hurt Us? Toxic chemicals in the Chesapeake Bay. *Environmental Research*. 82: 113-133.
- deFur, P.L., M. Crane, R. Stahl, and L. Tattersfield, eds. 1999. Endocrine Disrupters in Invertebrates. SETAC Press, Pensacola, FL 303 pp.
- Raffensperger, C and P.L. deFur. 1999. Implementing the precautionary principle: rigorous science and solid ethics. *Human and Ecol. Risk Assess*. 5: 933-941.
- deFur, P.L. 1999. Using the Precautionary Principle in Policy for Endocrine Disrupting Chemicals, pp 337-348 In: Raffensperger, C. and Tickner, J., eds.; Protecting Public Health and the Environment. Island Press, Washington, DC. 385 pp
- deFur, P.L. 1999. Public policy recommendations for endocrine disrupting chemicals. *Biotechnology International*. vol. 3: 1-6.
- deFur, P.L. and C. Raffensperger. 1999. Chemicals That Alter Hormone Systems. Pp 35-40 In: Ng Weng Hong, ed., *Guide to the Petrochemical and Chemical Industry in Singapore*, 3<sup>rd</sup> edition Publ. of The Strategist, Singapore.
- Mahaich, E. M., Gooch, J., deFur, P.L., Benson, W.H., Tyler, C., Birnbaum, L., DiGiulio, R.T. and Tillitt D. 1999. Reproductive and Developmental Effects of Contaminants in Oviparous Vertebrates: Workshop Introduction. In: R.T. DiGiulio and D. Tillitt, eds. Reproductive and Developmental Effects of Contaminants in Oviparous Vertebrates. SETAC Press, Pensacola FL.
- Ferenc, S., P. deFur, M. Dobbs, C. Grue, S. Marcy, D. Moore, R. Rolland and R. S. Wentsel. 1999. Characterizing and managing impacts of and risks posed by multiple stressors. Pg 51-66 In: J. Foran and S. Ferenc, eds. *Multiple Stressors in Ecological Risk Assessment*. SETAC Press, Pensacola, FL.
- deFur, P.L. and C. Raffensperger. 1998. Endocrine disrupters: their impact on human health. *The Strategist* 5: 14-15.
- Pittinger CA, Bachman R, Barton AL, Clark JR, deFur PL, Ells SJ, Slimak MW, Stahl RG, Wentsel RS. 1998. A Multi-Stakeholder Framework for Ecological Risk Management: Summary from a SETAC Workshop. Summary of the SETAC workshop on Framework for Ecological Risk Management; 23-25 June 1997; Williamsburg, VA., Pensacola, FL: Society of Environmental Toxicology and

Chemistry. 24p

- deFur, P.L. 1998. Science, Ethics and Funding. *The Networker* 2 (6): 3-4.
- deFur, P.L. 1997. Ecological Risk Assessment: Lessons from the Chesapeake Bay. *Am. Zool.* 37: 641-649
- deFur, P.L. 1996. Whither Ecological Risk? Risk Policy Report, May 1996. Invited perspective.
- deFur, P.L. and D.N. Rader. 1995. Aquaculture in estuaries: Feast or famine? *Estuaries* 18: 2-9.
- Clapp, R., P.L. deFur, E. Silbergeld and P. Washburn. 1995. Dioxin Risk: EPA on the Right Track. *Environ. Sci. & Technol.* 29: 29A-30A.
- Silbergeld, E.K. and P.L. deFur. 1994. Risk Assessments of Dioxin-like Compounds. pp 51-78 In: A. Schechter, ed., *Dioxins and Health*. Plenum Press, NY.
- deFur, P.L. and E.K. Silbergeld. 1994. A National Policy on Dioxin. *New Solutions* 5: 3-5.
- deFur, P.L. 1994. Introducing Exotic Species for Commercial Purposes: Japanese Oysters in the Chesapeake Bay. In: *The Big Kill: Declining Biodiversity in America's Lakes and Rivers*. Environmental Defense Fund, Washington, DC.
- deFur, P.L. 1994. The Problems with Chlorination. *Health & Environment Digest*.
- deFur, P., R. Fujita and D. Rader. 1993. *Aquaculture: Environmental Consequences and Opportunities*. Workshop on Aquaculture and the Environment: The Shaping of Public Policy, Marine Biological Laboratory, Woods Hole, MA, August 30 - September 1, 1993.
- deFur, P.L. 1992. Bioaccumulation Modelling: Regulation and Policy. *Health & Environment Digest*, December p 4 - 5.
- deFur, P.L. 1992. Oyster Restoration in Virginia: No Role for Japanese Oysters. Environmental Defense Fund, Washington, DC.
- Searchinger, T., et al. 1992. How Wet is a Wetland. Environmental Defense Fund, Washington DC.
- deFur, P.L. 1991. Water quality standards for dioxin threaten aquatic life and human health. In: *New Perspectives in the Chesapeake System*. Conference proceedings. CRC Publication no. 137, CRC, Annapolis, MD.
- deFur, P.L., C.P. Mangum and J.E.F. Reese. 1990. Respiratory responses of the blue crab *Callinectes sapidus* to long term hypoxia. *Biol. Bull.* 178: 46-54.
- deFur, P.L. 1990. Respiration during ecdysis at low salinity in blue crabs, *Callinectes sapidus* Rathbun. *Bulletin of Mar. Sci.* 46: 48-54.
- Brundage, C.A. and P.L. deFur. 1989. Online literature searches teaching biology students. *J. College Sci. Teaching*: 18: 240\_241.
- deFur, P.L. 1989. Dredged Material Disposal: Regulation, Management and Policy Issues;" Environmental Science Fellowship report to the American Association for the Advancement of Science.
- deFur, P.L. and A.L. Pease. 1988. Metabolic and respiratory compensation during long term hypoxia in blue crabs, *Callinectes sapidus*. pp. 60\_61, In: M.P. Lynch and E.C. Krome, eds., *Understanding the Estuary Advances in Chesapeake Bay Research*. CRC, P.O. Box 1280, Solomons, MD.
- deFur, P.L. 1988. Systemic respiratory adaptations to air exposure in intertidal decapod crustaceans. *Am. Zool.* 28: 110\_124.
- deFur, P.L., D. Nusbaumer and R.J. Lewis. 1988. Physiological aspects of molting in blue crabs from the tidal freshwater Potomac River. *J. Crust. Biology.* 8:1\_19.
- deFur, P.L., A. Pease, A. Siebelink and S. Elfers. 1988. Respiratory responses of blue crabs, *Callinectes sapidus*, to emersion. *Comp. Biochem. Physiol.* 89A :97\_101.
- Patterson, N.E. and P.L. deFur. 1988. Responses of crayfish, *Procambarus clarki*, to low environmental

- pH. *Physiological Zool.* 61:396\_406.
- Jones, R.C., P.L. deFur, D.P. Kelso and G. Warner. 1987. An Ecological Study of Gunston Cove: 1986\_87. George Mason University, Fairfax, VA.
- Jones, R.C., D.P. Kelso and P.L. deFur. 1986. An Ecological Study of Gunston Cove: 1985\_86. George Mason University, Fairfax, VA.
- Jones, R.C., D.P. Kelso and P.L. deFur. 1985. An Ecological Study of Gunston Cove: 1984. 206p. George Mason University. Fairfax, VA. 22030.
- deFur, P.L., C.P. Mangum and B.R. McMahon. 1985. Ventilatory and cardiovascular changes during molting in the blue crab, Callinectes sapidus Rathbun. *J. Crust. Biol.* 5(2): 207\_215.
- Mangum, C.P., B.R. McMahon, P.L. deFur and M.G. Wheatly. 1985. Gas exchange and the availability of O<sub>2</sub> to the tissue, during molting in the blue crab, Callinectes sapidus. *J. Crust. Biol.* 5: 187\_206.
- deFur, P.L. and B.R. McMahon. 1984a. Physiological compensation to short term air exposure in Red Rock crabs, Cancer productus Randall, from littoral and sub\_littoral habitats. I. Oxygen uptake and transport. *Physiol. Zool.* 57: 137\_150.
- deFur, P.L. and B.R. McMahon. 1984b. Physiological compensation to short term air exposure in the Red Rock crab, Cancer productus Randall, from littoral and sub\_littoral habitats. II. Acid\_base balance. *Physiol. Zool.* 57: 151\_160.
- Booth, C.E., B.R. McMahon, P.L. deFur and P.R.H. Wilkes, 1984. Acid\_base regulation during exercise and recovery in the blue crab, Callinectes sapidus. *Respirat. Physiol.* 58: 359\_376.
- McMahon, B.R., L.E. Burnett and P.L. deFur. 1984. Carbon dioxide excretion in C. productus and the function of branchial carbonic anhydrase during and after emersion. *J. Comp. Physiol.* 154: 371\_383.
- deFur, P.L., B.R. McMahon and C.E. Booth, 1983. Analysis of hemolymph oxygen levels and acid\_base status of Cancer productus Randall during emersion in situ. *Biol. Bull.* 165: 581\_590.
- deFur, P.L. and K. Lukowiak. 1982. Some in vivo and in vitro properties of Aplysia californica hemolymph. *J. Exp. Biol.* 101: 347\_351.
- Burnett, L.E., P.L. deFur and D.D. Jorgensen. 1981. The application of a thermodilution technique for measuring cardiac output and assessing cardiac stroke volume in crabs. *J. Exp. Zool.* 218: 161\_173.
- deFur, P.L., P.R.H. Wilkes and B.R. McMahon. 1980. Non\_equilibrium acid\_base status in C. productus: role of exoskeletal carbonate buffers. *Respirat. Physiol.* 42: 247\_261.
- Wilkes, P.R.H., P.L. deFur and B.R. McMahon. 1980. A new operational approach to Pco<sub>2</sub> determination in crustacean hemolymph. *Respirat. Physiol.* 42: 17\_28.
- deFur, P.L. and C.P. Mangum. 1979. The effects of environmental variables on the heart rates of invertebrates. *Comp. Biochem. Physiol.* 62A: 281\_294.
- McMahon, B.R., F. Sinclair, C.D. Hassal, P.L. deFur and P.R.H. Wilkes. 1978. Ventilation and control of acid\_base status during temperature acclimation in the crab, Cancer magister. *J. Comp. Physiol.* 128: 107\_116.
- Mangum, C.P., C.E. Booth, P.L. deFur, N.A. Heckel, R.P. Henry, L.C. Oglesby and G. Polites. 1976. The ionic environment of hemocyanin in Limulus polyphemus. *Biol. Bull* 150: 455\_467.
- Power Plant Site Evaluation Report on Douglas Point Site. PPSE 4\_1, vol. 1. 1974. The Johns Hopkins University. Avail. from: Md. Power Plant Siting Program, Annapolis, MD.
- Power Plant Site Evaluation Report on Dickerson Site. Addendum to PPSE 3\_1. 1974. The Johns Hopkins University. Avail. from: Md. Power Plant Siting Program, Annapolis, MD.
- Power Plant Site Evaluation Report on Perryman Site. PPSE 2\_M\_1. 1973. The Johns Hopkins University. Avail.: Md. Power Plant Siting Program, Annapolis, MD.

Power Plant Site Evaluation Report on Brandon Shores Site. PPSE 1\_2. 1972. The Johns Hopkins University. Avail. from: Md. Power Plant Siting Program, Annapolis, MD.

### **INVITED SEMINARS AND PRESENTATIONS:**

- “Communicating Science” Panel Discussion, Fort Johnson Seminar Series. College of Charleston; Charleston, SC. April 6, 2007.
- “Vulnerability as a Function of Individual and Group Resources in Cumulative Risk Assessment” Poster Presenter. National Council for Science and the Environment’s 7<sup>th</sup> National Conference on Science, Policy, and the Environment: Integrating Environment and Health. Washington, D.C. February 1-2, 2007.
- “Global Warming: An Uncertain Future” invited speaker to the Jewish Community Center of Richmond, Virginia’s 5400 Men’s Club, January 22, 2007.
- deFur, P.L. “Importance of Invertebrate Models for EDCs in the Field” Society for Integrative and Comparative Biology 2003 Annual Meeting and Exhibition. January 5 – 9 2004.
- “Risks of PCBs to Wildlife,” invited speaker at the PCB Congress held March 26-27, 2003 Fairfield Univ., Fairfield CT
- DeFur, P.L.; Foersom, L.L.; Tuberty, S. “Effects of the pesticide endosulfan on molting in juvenile red swamp crayfish *Procambarus clarkii*. Society for Integrative and Comparative Biology 2003 Annual Meeting and Exhibition. January 4 – 8, 2003.
- “Endocrine Disruptors in Aquatic Crustaceans.” Invited seminar at Virginia Institute of Marine Sciences, February 2003.
- “Safe Handling and Disposal of Medical Waste.” Presentation at “Occupational and Environmental Health and Safety Issues in the Health Care Sector” seminar, Harbor Hospital, Baltimore MD, September 25, 2001.
- “An Environmental Scientist’s Perspective on the Precautionary Principle” presentation at the EPA Toxicology and Risk Assessment Seminar; Dayton OH, April 24-5, 2001.
- “US Policies and Perspectives.” Presentation at the University of Iowa workshop on Endocrine Disruptors and Pharmaceutically Active Agents in Drinking Water. Chicago, IL; April 19-21, 2000.
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- “Can What We Don’t Know Hurt Us? Toxic chemicals in the Chesapeake Bay.” Invited Symposium at Johns Hopkins University, Baltimore, MD, Nov 13, 1998.
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- “An Environmental Perspective on the EPA Dioxin Reassessment”. Risk Assessment 1995, Symposium Presentation, Oct 17-18, 1995, Inside Washington Publishers
- “Science, Policy and Ecological Risk Assessment”. Environmental Science Seminar Series, University of Virginia, September 1995.
- “Policies and Regulations for Endocrine Disrupting Pesticides”. Panel presentation to the annual meeting of Investigative Reporters and Editors, June 1995, Miami, FL
- “The Role of Scientists in Federal Environmental Policy: Lessons from Risk Assessment”. Seminar to Oregon Inst. Mar. Biol., Charleston, OR, April 1995.
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- “The Environmental Community Perspective on Environmental and Occupational Cancer”. NIEHS Environmental Justice Symposium, Crystal City, VA, February 10 - 12, 1994.
- “The Toxicological Basis for Risk Assessment and the Cost of Regulation in EPA”, presentation before the National Academy of Sciences, Board on Environment, Science and Technology, Washington, DC, December, 1993.
- “Systemic Responses of Estuarine Invertebrates to Hypoxia,” Estuarine Research Federation meeting, Hilton head, SC, November, 1993
- “Risk Assessment in the 1990’s: Lessons from Dioxin”, seminar to the Medical University of South Carolina, November 1993.
- “Reassessment of the Health and Environmental Risks of Dioxin”, seminar to Eastern Connecticut State University, October 1993.
- “Environmental Activities: Prospective on Environmental Policy - Making Decisions in the Face of Uncertainty”. Office of Personnel Management Training Panel, Denver, CO, July 1993.
- “Responses of Aquatic Animals to Hypoxia in the Chesapeake Bay”, seminar to the Department of Biology, Virginia Commonwealth University, January 1993.
- “An Environmentalist Perspective on On-Site Oil Spill Clean Up”, panel presentation to Coast Guard Class, December 1992.
- “Physiological Responses of Blue Crabs to Long Term Hypoxia”, seminar to the Department of Biology, George Washington University, October 1992.
- “EPA’s New Directions: Recommendations from the Environmental Community”, panel presentation to the EPA annual meeting on Water Quality Standards, September 1992.
- “The Role of Science in Environmental Regulation and Policy”, seminar to the College of Charleston, Environmental Studies Program, October 1991.
- “Wetland Values, Functions and Regulations in 1991”, invited lecture at Virginia Commonwealth University, Department of Urban Studies, October 1991.
- “How Much Is the Wetland in Your Back Yard Worth?,” College lecture series at Randolph Macon College, September 1991.
- “Public Participation in Long Term Management of Sediments Decision-making Processes”,

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“Molting in Blue Crabs: Physiological Adaptations to Low Salinity and Low Oxygen Environments,” Seminar at Department of Biology, University of New Orleans, October 1989.

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