



**Donald E. Weller**  
Quantitative Ecologist and Senior Scientist  
Smithsonian Environmental Research Center  
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### **ADDRESS**

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### **PROFESSIONAL INTERESTS**

Quantitative and theoretical ecology; ecosystem and landscape theory; modeling nutrient transport and cycling; wetland, stream, and estuarine assessment; land-sea interactions; geographic information systems; scientific computing.

### **EXPERIENCE**

1997-present. Quantitative Ecologist and Senior Scientist. SERC.  
1992-1997. Quantitative Ecologist and Computer Center Director. SERC.  
1983-1992. Research Associate. SERC.  
1978-1983. Pre-doctoral fellow in Ecology. Oak Ridge National Laboratory, Oak Ridge, TN.  
1981. Teaching assistant in Systems Ecology. University of Tennessee, Knoxville, TN.  
1975-1978. Computer programmer and laboratory technician. Indiana Univ., Bloomington, IN.

### **EDUCATION**

Public schools. Evansville, IN. 1958-1970.  
B.A. 1974. Wabash College, Crawfordsville, IN. Major in Biology, minor in Chemistry.  
Ph.D. 1985. University of Tennessee, Knoxville, Tennessee. Major in Ecology. Dissertation title: *A Mathematical and Statistical Analysis of the -3/2 Power Rule of Self-Thinning in Even-aged Plant Populations*. Research advisors: Drs. R. H. Gardner and H. H. Shugart, Jr.

### **PUBLICATIONS**

An up-to-date list of my publications with links to full text copies in PDF format is available from [Smithsonian Research Online](#) at this link ([Don Weller publication list](#)).

### **PRESENTATIONS**

I have been presenter or co-author of 119 talks or posters at national, international, or regional scientific meetings; academic institutions; meetings for environmental managers; pre-college students; and the general public.

**GRANTS**

I have been Principal Investigator or Co-PI on 31 grants from a variety of sources, including, the National Science Foundation, the U. S. Department of Agriculture (USDA), the National Oceanographic and Atmospheric Administration (NOAA), the National Aeronautics and Space Administration (NASA), the U. S. Environmental Protection Agency (EPA), the Maryland Department of Natural Resources, the Maryland Department of the Environment, Maryland Sea Grant, the Charles County Maryland Planning Office, and the Smithsonian Institution.

**COMMITTEES**

I have served on a wide variety of committees organized by scientific societies, federal agencies, state agencies, inter-governmental agencies (especially the Chesapeake Bay Program), non-profit organizations, the Smithsonian Institution, and the Smithsonian Environmental Research Center.

**REVIEWS**

I have reviewed hundreds of manuscripts, proposals, or professional packages; including reviews for the following journals and funding agencies.

Journals: *American Journal of Botany, American Midland Naturalist, American Naturalist, American Society of Agricultural and Biological Engineers, Annals of Botany, Applied Ecology, Biology Letters, Bioscience, Canadian Journal of Botany, Canadian Journal of Forest Research, Ecological Applications, Ecology, Ecological Engineering, Ecosphere, Ecosystems, Elementa, Environmental Management, Environmental Research Letters, Estuaries, Evolution, Evolutionary Theory, Forest Science, Journal of the American Water Resources Association, Journal of the North American Benthological Society, Journal of Ecology, Journal of Environmental Radiation, Journal of Environmental Research and Public Health, Journal of Hydrology, Journal of Environmental Quality, Journal of Hydrology, Journal of Soil and Water Conservation, Journal of Theoretical Biology, Journal of Vegetation Science, Landscape Ecology, Natural Hazards, Nature, Oecologia, Oikos, PLOS One, Remote Sensing of the Environment, Science of the Total Environment, Trees Structure and Function, Vegetatio, Wetland Ecology and Management*

Funding agencies: Chesapeake Bay Program, Chesapeake Bay Trust Fund, Cooperative Institute for Coastal and Estuarine Environmental Technology, Delaware Sea Grant, Environmental Protection Agency, Hudson Bay Foundation, Maryland Dept. of Natural Resources, Maryland Sea Grant, National Science and Engineering Research Council of Canada, National Science Foundation, the Science and Technical Advisory Committee (STAC) to the Chesapeake Bay Program, Syracuse Center of Excellence Collaborative Activities for Research and Technology Innovation (CARTI), U.S.D.A. National Research Initiative Competitive Grants Program, the U.S. Geological Survey, and the Water Resources.

**PROFESSIONAL TRAINING**

My research group has provided training or research opportunities to 13 postdoctoral scientists, 13 graduate students, and 30 undergraduate interns.