

William G. Deutsch, Ph.D.
Research Fellow IV

Campus Address

Department of Fisheries and Allied Aquacultures
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Education

Ph.D. (1988) Aquatic Ecology and Fisheries, Dept. of Fisheries and Allied Aquacultures, Auburn University, AL
Doctoral Dissertation: Community Structure and Production of Benthic Macroinvertebrates in 0.04-Ha Ponds with and without Organic Loading.
Master of Science (1975) Biology, State University of NY at Binghamton, NY
Bachelor of Arts (1983) Anthropology, Bloomsburg University of Pennsylvania, Bloomsburg, PA
Bachelor of Science (1972) Zoology, Houghton College, Houghton, NY

Employment History

- 1990 - Present Research Fellow IV, Dept. of Fisheries and Allied Aquacultures, Auburn University.
- Director, Alabama Water Watch and Global Water Watch (1992-present)
- Principle Investigator, Water Resource Management and Education work plan of the USAID-funded SANREM CRSP, Phases 1 and 2, Philippines (1992-2004).
- Water Specialist (one-third appointment) in the Alabama Cooperative Extension System (2000-present); AFRI Southern Region, Watershed Assessment Committee.
- Director, Saugahatchee Creek Watershed Management Plan, Phase 1 Implementation; funded by the Alabama Department of Environmental Management (2006-2010).
- Director, Tallapoosa Watershed Project; USDA/CSREES-funded (2003-07) and Auburn University Water Resources Center-funded (2008-2011).
- Director, Gulf of Mexico Alliance Project (GWW-GOMA); funded by the U.S. EPA Gulf of Mexico Programs Office (2009-2011).
- 1988 - 1990 Postdoctoral Fellow, Dept. of Fisheries and Allied Aquacultures, Auburn University.
- 1985 - 1988 Graduate Research Assistant, Dept. of Fisheries and Allied Aquacultures, Auburn University.
- 1985 - 1985 Director of Aquatic Environmental Studies. Ecology III, Inc., Berwick, PA.
- 1982 - 1985 Research Coordinator. Ichthyological Associates, Inc., Berwick, PA.
- 1974 - 1982 Research Biologist. Ichthyological Associates, Inc., Berwick, PA.

Appointments, Awards

Appointment on the Graduate Faculty of Auburn University, 1993.
Appointment to the Graduate Faculty of Iowa State University, 2005
Auburn University, Department of Fisheries and Allied Aquacultures, Exemplary Service Award, 2007
Auburn University, College of Agriculture, Dean's Grantsmanship Award, 2009
Auburn University, College of Agriculture, Employee of the Year Award, 2009

Professional Organizations

Gamma Sigma Delta (The Honor Society of Agriculture)
Phi Beta Delta (The Honor Society of International Scholars)
The Alabama Fisheries Association

External Funding Obtained

Total grants obtained (as PI or co-PI) since 1992: \$6,399,224

ADEM	\$ 3,388,562
USAID	\$ 1,251,570
USDA	\$ 550,000
AU Water Center	\$ 500,000
US EPA	\$ 300,000
Heifer International	\$ 149,984
Other (USGS, RC&D, etc.)	\$ 259,108

Work-Related International Travel

Approximately 60 trips to: the Philippines, Mexico, Thailand, Ecuador, Guatemala, Rwanda, China, Vietnam, Costa Rica, Panama, Honduras, India, Sweden, Hungary, Slovakia, South Africa, Peru and Egypt.

Journal Publications

Mackiewicz, J. S. and W. G. Deutsch. 1976. Rowardleus and Janiszewskella, new caryophyllid genera (Cestoides: Caryophyllidea) from Carpiodes cyprinus (Catostomidae) in eastern North America. Proceedings of the Helminthological Society of Washington 43 (1): 9-17.

Deutsch, W. G. 1977. Fish parasites from the Susquehanna River in Pennsylvania with new host records. Proceedings of the Pennsylvania Academy of Science 51: 122-124.

Deutsch, W. G. 1980. Macroinvertebrate colonization of acrylic plates in a large river. Hydrobiologia 75: 65-72.

Chance, J. M. and W. G. Deutsch. 1980. A comparison of four similarity indexes in the cluster analysis of Susquehanna River macrobenthic samples. Proceedings of the Pennsylvania Academy of Science 54: 169-173.

Deutsch, W. G. 1981. Suppression of macrobenthos in an iron-polluted stretch of the Susquehanna River (Pennsylvania). Proceedings of the Pennsylvania Academy of Science 55: 37-42.

Deutsch, W. G. 1984. Oviposition of Hydropsychidae (Trichoptera) in a large river. Canadian Journal of Zoology 62 (10): 1988-1994.

Gale, W. F. and W. G. Deutsch. 1985. Fecundity and spawning frequency of captive tessellated darters--fractional spawners. Transactions of the American Fisheries Society 114 (2): 220-229.

Deutsch, W. G. 1985. Swimming modifications of adult female Hydropsychidae compared with other Trichoptera. Freshwater Invertebrate Biology 4 (1): 35-40.

Deutsch, W. G. 1989. Parasites of Susquehanna River (Pennsylvania) muskellunge. Journal of the Pennsylvania Academy of Science 63: 25-27.

Deutsch, W. G., C. W. Reed, E. C. Webber, and D. R. Bayne. 1992. Effects of largemouth bass stocking rate on fish population dynamics in aquatic mesocosms used for pesticide research. Environmental Toxicology and Chemistry 11 (1): 5-10.

Webber, E. C., W. G. Deutsch, D. R. Bayne and W. C. Seesock. 1992. Ecosystem-level testing of a synthetic pyrethroid insecticide in aquatic mesocosms. *Environmental Toxicology and Chemistry* 11 (1): 87-105.

Deutsch, W., E. Reutebuch and S. Ruiz-Cordova. 2007. Validity and applications of citizen volunteer water-quality data: a case from Alabama. *In* Measuring monitoring performance by local watershed groups. American Water Resources Association. *Water Resources IMPACT* 9 (5): 16-20.

Deutsch, W., L. Lhotka and S. Ruiz-Cordova. 2009. Group Dynamics and Resource Availability of a Long-Term Volunteer Monitoring Program. *Society and Natural Resources* 22:637-649.

Books, Chapters

Deutsch, W.G. and J. L. Orprecio. November 2000. Formation, Potential and Challenges of a Citizen Volunteer Water Quality Monitoring Group in Mindanao, Philippines. pp. 13-20 *In* Cultivating Community Capital, Experiences of the SANREM CRSP. Kathleen Cason, ed.

Deutsch, W. G. A. L. Busby, J. L. Orprecio, J. P. Bago-Labis and E. Y. Cequiña. 2001. Community-based Water Quality Monitoring: From Data Collection to Sustainable Management of Water Resources. pp 138-154, *In* Coxhead, I. and Buenavista, G., eds. Seeking Sustainability. Challenges of agricultural development and environmental management in a Philippine watershed. Philippine Council for Agriculture, Forestry and Natural Resources Research and Development, Department of Science and Technology. Los Baños, Laguna, Philippines.

Deutsch, W. G., J. L. Orprecio and J. P. Bago-Labis. 2001. Community-based Water Quality Monitoring: The Tigbantay Wahig Experience. pp 184-196, *In* Coxhead, I. and Buenavista, G., eds. Seeking Sustainability. Challenges of agricultural development and environmental management in a Philippine watershed. Philippine Council for Agriculture, Forestry and Natural Resources Research and Development, Department of Science and Technology. Los Baños, Laguna, Philippines.

Rola, A. C., W. G. Deutsch, J. L. Orprecio and A. T. Sumbalan. 2004. Water resource management in a Bukidnon subwatershed: What can community-generated data offer? pp. 179-212, *In* Rola, A., Francisco, H. and Liguton, J., eds. Winning the Water War. Watersheds, Water Policies and Water Institutions. Philippine Institute for Development Studies; Philippine Council for Agriculture, Forestry and Natural Resources Research and Development. Makati City, Philippines.

Deutsch, W. G., A. L. Busby, J. L. Orprecio, J. P. Bago-Labis and E. Y. Cequiña. 2005. Community-based hydrological and water quality assessments in Mindanao, Philippines. pp. 134-149. *In*, Bonell, M. and Bruijnzeel, L.A., eds. Forests, Water and People in the Humid Tropics. Past, Present and Future Hydrological Research for Integrated Land and Water Management. International Hydrology Series. Cambridge University Press.

Deutsch, W. G. and J. L. Orprecio. 2005. Water quality changes in the Manupali River watershed: evidence from a community-based water monitoring project. pp. 37-57. *In*, Coxhead, I. and Shively, G., eds. Land Use Changes in Tropical Watersheds: Evidence, Causes and Remedies. CAB International.

Ruiz-Cordova, S. S., B.L. Duncan, W.G. Deutsch and N. Gomez. 2006. Community-based water monitoring in Cotacachi. pp. 236-250. *In* Rhoades, R., ed. Development with Identity: Community, Culture and Sustainability in the Andes. CAB International Publishing, Wallingford, UK.

Deutsch, W. G., S. S. Ruiz-Cordova, and B. L. Duncan, eds. 2010. Community-Based Water Monitoring, A Practical Model for Global Watershed Stewardship. Auburn University (authored or co-authored 12 chapters of this book).