

KIRK EDWARD LAGORY

Environmental Science Division
Argonne National Laboratory

Educational Background:

Ph.D. Miami University, Zoology, 1984
M.En. Miami University, Environmental Science, 1978
B.A. The Evergreen State College, Biology, 1976

Professional Experience:

1986-Present Ecologist
Environmental Science Division
Argonne National Laboratory

Principal activity is the assessment of the impacts of human activities on terrestrial and aquatic components of ecosystems with an emphasis on animal and plant populations and wetland systems. Assessments have examined the impacts of construction and operation of hydroelectric facilities, electrical transmission lines, nuclear power plants, oil and gas development, and energy research facilities. These assessments have involved projects in all geographic regions of the U.S. as well as Korea and Japan. Associated activities include (1) assessing the effects of hydropower operations on endangered fish populations and developing recommendations to mitigate impacts; (2) assessment of cumulative impacts; (3) conducting animal population studies and ecological inventories; (4) providing guidance to the U.S. Department of Energy (DOE) and other federal agencies on wildlife and habitat monitoring techniques.

1991-1998 Section Manager, Ecological and Geographical Sciences Section
Environmental Assessment Division
Argonne National Laboratory

Specific duties included: (1) provide technical direction to scientific staff by setting section goals and objectives and taking an active role in the planning and execution of scientific activities; (2) coordinate and facilitate staff activities by setting priorities among conflicting schedules and workloads; (3) promote the professional development of staff through advising and facilitating research and publication activities; (4) develop and promote new scientific programs that require innovative approaches or techniques; (5) ensure the proper combination of staff expertise and scientific programs; and (6) evaluate the professional activities of staff members.

1990-1998 Adjunct Assistant Professor of Zoology
Miami University, Oxford, Ohio

Serve as advisor for collaborative graduate thesis research.

Summary of Previous Experience:

1983-1986 Research Associate
Miami University, Oxford, Ohio

Participated in a cooperative grant between Miami University and the USEPA to study the effects of drinking water contaminants (trichloroethylene, chlorine dioxide, and lead) on the behavior and central nervous system function of laboratory rats. Activities included the design and statistical analysis of experiments, development of protocols to measure behavioral parameters, data management, and the supervision of approximately 15 technicians.

1976-1982 Instructor, Teaching Fellow, Graduate Assistant
Miami University, Oxford, Ohio

Activities included teaching Environmental Biology, a 3-credit lecture course; teaching and developing the laboratory portions of courses in ethology and organismal biology; directing the laboratory sections of the General Biology course; and supervising and advising students in computer and mathematical sciences.

Research Interests:

Effects of hydropower generation on downstream ecological resources
Effects of energy development on wildlife populations
River basin management
Endangered species management
Wetland ecology and restoration
Relationships between animal populations, behavior, and habitat
Cumulative impacts of human activities on natural systems
Statistical analysis

Professional Activities:

Reviewer for Science, American Naturalist, American Midland Naturalist, Animal Behaviour, Canadian Journal of Zoology, Behaviour, Journal of Mammalogy, and Ohio Journal of Science. Reviewer for National Science Foundation proposals.
Member of The Wildlife Society, American Fisheries Society, and the Society for Conservation Biology
Member of the Colorado River Fishes Recovery Team

Publications:

Author of over 80 journal articles, book chapters, reports, and conference publications.