

## **LISA A. DURHAM**

Geosciences and Information Technology Section  
Environmental Science Division  
Argonne National Laboratory

### **Education:**

M.S. Purdue University, Geology, 1989  
B.S. Texas A&M University, Geology, 1985

### **Professional Experience:**

1989 - Present Environmental Scientist  
Geosciences and Information Technology Section  
Environmental Science Division  
Argonne National Laboratory, Argonne, Illinois

As the Manager of the Geosciences and Information Technology Section, supervises a team of engineers and scientists.

Technical areas of expertise are hydrogeologic analysis, and geostatistical and numerical modeling of groundwater flow and contaminant transport. Expertise also includes precision excavation programs for soil remediation, MARSSIM-based closure survey design, and Web-based decision support tools to support characterization and remedial activities at hazardous waste sites.

Engages in research, assessment, and development activities designed to answer questions relating to hydrologic and geologic impacts from proposed and existing federal environmental projects. Identifies situations where new inquiries and research may be required, applies advanced tools and techniques to understand and solve complex environmental problems, documents the results of technical work in reports, journals, and conference proceedings, and provides technical leadership to junior staff. Provides project management and sponsor interface services including; proposal preparation and sponsor/customer support, and timely delivery of high-quality products.

Project activities include supporting the Formerly Utilized Sites Remedial Action Program soil remediation projects for the U.S. Army Corps of Engineers – Buffalo District. Other project activities include preparing Environmental Assessments, Environmental Impact Statements, Final Status Survey Plans, Data Management Plans, Quality Assurance Plans, and other regulatory decision documents for DOE and DOD facilities.

**Summary of Previous Experience:**

1986-1987      Environmental Research Division, Argonne National Laboratory

Participated in a research project that involved five months of extensive field work and three months of water chemical analyses in the laboratory. Twenty surface coal mine lakes, located throughout the United States, were investigated to identify the hydrological, geochemical, and limnological factors that control the water chemistry in these types of land reclamation lakes.

1985-1986      Teaching Assistant/Research Assistant  
Purdue University, West Lafayette, Indiana

Coordinator and instructor of laboratory activities for the graduate course in groundwater and contaminant transport modeling.

Summers of  
1981-1984      ARCO Exploration Company, Houston, Texas

Participated in oil exploration activities using geophysical and geological data to map offshore areas in the Gulf of Mexico and onshore regions in east Texas.

**Research Interests:**

Optimization techniques for groundwater monitoring networks and remedial design systems  
Geostatistical methods to characterize soil and groundwater contamination

**Professional Activities:**

Geological Society of America  
National Ground Water Association  
Sigma Xi

**Publications:**

Author of 30+ reports and conference publications.