

CANDACE M. ROSE

Applied Geosciences and Environmental Management Section
Environmental Science Division
Argonne National Laboratory

Education:

- M.S. Graduate Studies at Illinois Institute of Technology in Environmental Engineering (12 hours in graduate studies)
- B.S. Illinois Benedictine College, Biochemistry (ACS certified), 1985

Professional Experience:

- 1999-Present Assistant Scientist/Environmental Characterization
Environmental Science Division
Argonne National Laboratory

Operate all analytical instrumentation in the AGEM Section's analytical laboratory. Handle, prepare, preserve, and analyze field samples collected in field work for the U.S. Department of Agriculture (USDA). Maintain safe and clean working conditions in the analytical laboratory. Investigate new methods for sample analysis and preservation to improve detection limits. Be prepared to provide assistance and technical support as needed to the field program in operation of the electronic cone penetrometer system for the collection of data and samples for the numerous USDA projects.

Summary of Previous Experience:

- 1984-1999 Argonne National Laboratory

Supervise and manage technical support staff for the maintenance, operation, and development of electronic cone penetrometer systems for DOE programs. Demonstrate the technology's capabilities, research and field test new sensor technologies, manage budgets, transfer technology to industry, evaluate experimental data, develop new research areas, and assist with writing publications. As a member of the field team for numerous USDA projects, supervise the operation of the cone penetrometer truck unit, including procurement, health and safety supervision of field teams, sample collection, quality control, community relations, data evaluation, research, and assistance with writing work plans and reports. Supervise staff and manage tasks for the DOE Office of Environmental Management and Surveys. Schedule, conduct, and prepare reports of preliminary assessments of federal properties for the Army National Guard. Manage environmental site characterizations at three landfills owned by the Bureau of Land Management. Manage analytical laboratory staff and interact with reference laboratory personnel. Conduct chemical analytical tests. Prepare samples for and operate gas chromatograph and scanning electron microscope.

Research Interests:

Develop new and improved methods for analysis of soil and groundwater samples.

Investigate uptake and dispersion routes for contaminants in soil.

Investigate bioremediation technologies for use in treating widespread environmental contamination.

Professional Activities:

American Chemical Society

American Institute of Chemical Engineers

American Society of Scientists

Subcommittee Member, American Society for Testing and Materials

Publications:

Author or co-author of 12 journal, book, and conference publications and presentations. Author or co-author of 100's of reports for the Army National Guard, Bureau of Land Management and the DOE Office of Environmental Management and Surveys.