

KAREN P. SMITH

Environmental Science Division
Argonne National Laboratory
Denver, Colorado

Education:

M.S. Southern Methodist University, Geology, 1982
B.A. Southern Methodist University, Geology, 1980
B.S. Southern Methodist University, Anthropology, 1980

Professional Experience:

2007-present Program Manager
2002-2007 Strategic Area Manager, Environmental Management Systems
1998-2002 Manager, Environmental Systems Management Section
1989-1998 Environmental Systems Engineer
Environmental Assessment Division, Argonne National Laboratory

As one of the Environmental Science Division (EVS) senior program managers, responsible for providing direction and oversight to program development initiatives and project management and development activities in the areas of energy development, emerging energy technologies and systems, environmental effects, and information management, with a specific focus on renewable energy and sustainability. Specific areas of expertise include renewable energy development, petroleum industry waste management, energy development on federal lands, environmental regulatory compliance, environmental data management and communication systems, and environmental impact analyses. Extensive experience in project management, with considerable skill in coordinating large multidisciplinary and multi-agency teams; defining scope, objectives, and optimal technical approach; synthesizing technical data and analyses; compiling effective reports, presentations, and publications; and meeting project budgets and schedules.

Specific projects underway or recently completed include: (1) U.S. Department of Energy and Bureau of Land Management (BLM) programmatic evaluation of solar energy development in the southwestern United States; (2) BLM programmatic evaluation of wind energy development on public lands in 11 western states; (3) Western Area Power Administration and U.S. Fish and Wildlife Service evaluation of wind energy development in the Upper Great Plains states; (4) U.S. Department of the Interior, Office of Indian Energy and Economic Development web-based clearinghouse of information on tribal energy development and related environmental issues; (5) Minerals Management Service programmatic analyses of renewable energy and oil and gas development in the Outer Continental Shelf; (6) development of a GIS-based decision support tool to support BLM land use planning activities; and (7) support to the International Atomic Energy Agency network of expertise related to remediation of radiologically contaminated sites.

Summary of Previous Experience:

1984-1987 Exploration Geologist, Sun Exploration & Production Company, Dallas, TX

Responsible for the generation of economically viable oil and gas prospects for the purpose of expanding the company's reserve base. This entailed technical analyses of electric well logs, borehole samples, seismic data, and regional trends. Also responsible for maintaining assessments of the district reserve accumulations and drilling expense budget for management use.

1983-1984 Production Geologist, Sun Exploration & Production Company, Dallas, TX

Responsible for the development and extension of productive oil and gas properties. This entailed analyses of drilling mechanics, borehole samples, electric well logs, fluid dynamics, and economic factors. Extensive field work was involved.

1980 Geologist, Sun Energy Development Company (SUNEDCO), Dallas, TX

Worked on enhancing the mining program for the Cordero Coal Mine, Gillette, Wyoming. Work entailed redefining the stratigraphy, quality, and extent of the economic coal seams through interpretation of electric well log data and chemical analyses.

1979-1983 Research Assistant, Department of Geological Sciences, Southern Methodist University, Dallas, TX

Performed conductivity analyses and provided drafting, computer processing, and literature search support to the department's geothermal research laboratory.

Professional Activities:

Member, Community Sustainability Advisory Board, City of Golden, Colorado, 2007-present.

Consultant to International Atomic Energy Agency, ENVIRONET initiative, 2007-present.

Invited speaker at numerous international conferences on the management of naturally occurring radioactive materials (NORM) generated by the petroleum industry, including serving as key note speaker and session chair at the NORM Waste Conference, London, UK, 2007; NORM Workshop, Muscat, Oman, 2005; 4th Specialty Conference on Environmental Progress in the Petroleum and Petrochemical Industries, Bahrain, 2004; and multiple International Petroleum Environmental Conferences, 2000 – 2004.

Interstate Oil and Gas Compact Commission subcommittee on NORM Issues, member, 1998-1999.

Beneficial Reuse '95, 3rd Annual Conference on the Recycle and Reuse of Radioactive Scrap Metal, session chair, 1995.

Publications:

Author or co-author of 90+ journal, report, and conference publications and presentations.