

ALBERT E. SMITH

Atmospheric Sciences Section
Environmental Science Division
Argonne National Laboratory

Education:

Ph.D.	Carnegie - Mellon University, Physics, 1971
M.S.	Carnegie - Mellon University, Physics, 1965
B.S.	Carnegie - Mellon University, Physics, 1963
Grad Work	Graduate School of Public Health, Environmental Health, 1970-72

Professional Experience:

1974-Present Environmental Systems Engineer
Environmental Science Division
Argonne National Laboratory

Principal investigator and project manager. Technical activities including scoping projects, providing lead role, task and problem identification, policy and regulatory analysis, model development, interpretation of model results, developing assessment methodologies and analytic techniques, and preparing reports and handbooks. Management activities include direction of staff and support personnel, scheduling and prioritizing tasks, coordination of work with subcontractors, and interaction with sponsors. Other duties include preparing proposals, estimating budgets and staff requirements, quality assurance, and technical research. Manage development of reports identifying options for using pollution prevention for air compliance at Air Force Materiel Command (AFMC) bases. Project manager for development of Air Quality Utility Information system (AQUIS), a permit and air emissions data management system for AFMC and Air Combat Command, including overall management of field work, computer program development, data base design, and air quality technical aspects as well as technical development of emission estimating procedures; manage and contribute to VOC emission estimating handbook for U.S. Air Force; overall management of project developing VOC emission inventories at over 30 USAF bases. Manage development of EIS for joint military/civilian use of Scott Air Force Base.

Prepare chemical background sheets and input for background packages for chemical plants Homeland Security program. Prepare air quality sections and best management practices for wind energy development programmatic EIS for BLM and provide consistency review of document. Prepared Air Force guidance document on general conformity. Technical lead for cumulative impacts and air quality analysis on EIS teams. Air quality technical support to Air Force's APIMS database management system. Team member investigating waste disposal activities at Twin Cities Army Ammunition Plant. Lead role in estimating costs, and air quality impacts of Near Source Performance Standards (NSPSs) for particulates and SO₂ NSPSs for

industrial boilers; lead role in estimating SO_x NO_x and VOC emissions from residential/commercial sources for national acid rain study; lead role in preparing national estimates of air quality impacts and costs for regulatory impact analysis of particulate and SO₂ ambient standards; major role in developing ranking procedure for hazardous air pollutants. Federal evaluator for Federal Emergency Management Agency (FEMA) at offsite radiological emergency preparedness exercises for nuclear power plants. Activities include providing logistical support during preparation for exercises, observing activities of response organizations during exercises, and preparing post-exercise evaluation reports. Lead role in preparing guidance for state agencies for use in developing lead air quality implementation plans; participated in prioritization of NSPSs required under Clean Air Act Amendments of 1977; lead role in development of workbook for comparing air quality models; lead role in analysis of alternative air quality management policies in non-attainment areas; participated in developing manual and conducting workshops in air quality maintenance planning; participated in state-by-state review and national summary analysis of state implementation plans required by the Energy Supply and Environmental Coordination Act.

Summary of Previous Experience:

1972-1974 Air Pollution Engineer
 Allegheny County Bureau of Air Pollution Control Board
 Pittsburgh, Pennsylvania

Head of Data Analysis Section and Episode Control Officer.

Research Interests:

Development of environmental management software.

Professional Activities:

Air and Waste Management Association (AWMA)
Reviewer of papers for AWMA Annual Meetings
National Defense Education Act Fellow at Carnegie-Mellon University

Publications:

Author of 70+ journal, book, report and conference publications.