BENJAMIN J. MASON, Ph.D.
Program Manager
GEOMET Technologies, Inc.

Education

Soils, Ph.D.	Oregon State University	1967
Forest Management, M.S.	Oregon State University	1962
Forest Management, B.S.	University of Washington	1957

Professional History

1980—Present	GEOMET Technologies, Inc.
1977—1980	GEOMET, Incorporated
1975—1976	Southwestern Exploration Associates
1973—1975	Logos Corporation
1972—1973	Self-employed
1971—1972	U.S. Environmental Protection Agency
1970—1971	Battelle Memorial Institute
1966—1970	U.S. Public Health Service
1960—1966	Oregon State University
1957—1960	U.S. Marine Corps
1954—1957	University of Washington
Pre—1954	International Paper Company

Professional Experience

1980—Present GEOMET Technologies, Inc.

In January 1980, Dr. Mason was transferred from the staff of GEOMET Incorporated, to the newly formed GEOMET Technologies, Inc. (GTI), and continues in the same capacity.

1977—1980 GEOMET, Incorporated

Currently is Program Manager for a contract providing technical support to the National Toxicology Program of the Department of Health, Education, and Welfare. This project is providing assistance to NTP in developing exposure levels and patterns for chemicals under review by the NTP. This material is included in an annual report to Congress. Most recently, served as Program Manager on an EPA project to investigate the physical impact of the Love Canal hazardous waste site on its surrounding community in Niagara Falls, New York. Directed this multimedia field program involved the collection and storage of environmental samples from the air, water, soil, and biota media. Due to the nature of the suspected constituents, all sampling procedures were operated under the guidance of a stringent safety and health program. Additionally, a detailed quality control program was implemented to ensure the validity of all samples obtained.

Other responsibilities have included his management of a project to develop land use information for the EPA Chesapeake Bay Program. Has developed a

Professional Experience (Continued)

model for predicting land-use patterns in the future. The model was tested on existing data with excellent agreement.

In addition, serves as a consultant to the EPA Justice Enforcement Team working on a series of hazardous waste sites located in Niagara Falls, New York. (The most well known of these is Love Canal). As the only nongovernment employee, advises the team on chemical toxicity and soil migration of chemicals from the landfills.

Has been responsible for developing a research management decision center and a cancer research strategy for use by the Office of Health Effects of the United States Environmental Protection Agency. Prior to undertaking these tasks, served as project manager for two environmental research programs also funded by EPA. One project was a problem definition study designed to assist EPA in developing long-range cancer research plans, in developing methods for the selection of environmental carcinogenesis study areas, and in retrospective diffusion modeling. The study developed a list of priority ranked study chemicals that were reported in detailed dossiers. As a result of work on this project, has been asked to take part in several EPA workshops where research strategy has been discussed and specific research programs identified for future implementation.

Also directed a second project, a study to determine the effects of emissions from forest burning on air quality in Washington and Oregon. This was a literature, modeling, and interview study designed to produce a state of the art document for use in EPA Region X. Portions of the report were used to develop EPA's testimony for presentation to the Subcommittee on Forests of the House Committee on Agriculture. Provided technical backup to the Director of the Air and Hazardous Materials Division of Region X during presentation to this committee.

1975—1976 Southwestern Exploration Associates

As an associate of Southwestern Exploration Associates, directed the Environmental Management effort of S.E.A. This division provided consulting services in the areas of environmental impact assessment, in pollutant cycling, and in environmental systems management. As an environmental manager, was active in developing programs to provide services to companies in the mining and energy fields.

1973—1975 Logos Corporation

As a general manager of Logos Corporation, managed a mining and agricultural company dedicated to working with young people. Supervised the day-to-day operations of the company, and advised the president of the corporation on technical matters in agricultural and in the environmental area. Was active in the development of plans and programs for processing carbonaceous gold and silver ore. Directly supervised the research program conducted by Logos Corporation. Also developed a detailed management plan for a large farming operation that would result in the development of 5,000 acres of desert land for agricultural purposes.

Professional Experience (Continued)

1972—1973 Private consultant

During this period, served as an advisor to a forest consulting firm in Oregon and to Southwest Forest Products, Inc., in Oregon. In this capacity, set up an air pollution sampling laboratory for a plywood plant in the Willamette Valley of Oregon. Also trained personnel in sampling particulate matter released from the plant. Conducted a cost study to determine the most effective way of providing the information needed to satisfy air pollution control requirements.

1971—1972 Environmental Protection Agency

As a director of the Division of Ecological Research at the National Environmental Research Center, Research Triangle Park, North Carolina, conducted and supervised research on the effects of air pollutants on environmental systems. The division not only conducted research but also advised other agencies on the effects of air pollutants on agricultural crops and wild land systems. Coordinated with a number of Federal agencies in the capacity of director of the division. Was responsible for reviewing environmental impact statements from a number of major Federal projects. Was assigned to the Task Force that was charged with the responsibility for writing the Environmental Impact Statement of the Navajo Power Plant in the Four Corners area. The division of ecological research employed approximately 50 full-time research workers. A portion of this staff was assigned by the Department of Agriculture to work with the Environmental Protection Agency to determine the effects of pollutants on agricultural crops. The budget for this program was approximately $2 million, of which about $800,000 was spent in contract-type research.

1970—1971 Battelle Memorial Institute

As Senior Ecologist, was charged with the responsibility for providing consulting services to the U.S. Atomic Energy Commission's Nevada Operations Office in Las Vegas, Nevada. With one other associate was required to review Environmental Impact Statements and review and evaluate environmental research being conducted for the Agency. This required coordinating not only with the contractor but also the parent organization, Battelle Memorial Institute. While in this capacity, assisted in writing the first Environmental Impact Statement written by the U.S. Atomic Energy Commission's Nevada Operations Office. Was also involved in the large program of biological investigation conducted on Amchitka Island in the Aleutians, which provided considerable insight into management of large ecologically oriented research programs that required close coordination among a number of agencies.

1966—1970 U.S. Public Health Service

As chief of the ecology section in the Bioenvironmental Research Program at the U.S. Public Health Service's Southwestern Radiological Health Laboratory in Las Vegas, Nevada, developed a program of ecological research dealing primarily with the soil-plant system. The program was responsible for identifying the routes

Professional Experience (Continued)

of transport of radionuclides from the time they were deposited on the soil until they reached a food source important to man. This required detailed assessment of the ecosystem, environmental modeling, and both field and laboratory research. Served as a member of an advisory team comprised of veterinarians, meteorologists, physicists, chemists, and radiation biologists. The team designed research programs geared to evaluate the movement of radionuclides released by the Plowshare Program. This experience has been utilized in a number of cases since that time in working with multidisciplinary teams.

1960—1965 Oregon State University

As an employee of the Soils Department at Oregon State University, conducted basic research on the mechanism of ion uptake by agricultural plants. This full-time appointment was funded by the U.S. Atomic Energy Commission's Division of Biology and Medicine. In addition to this research, supervised a plant and nutrition laboratory that did detailed analysis of plant materials. Was able to complete the requirements for a Ph.D. while working full-time on the University staff.

1957—1960 U.S. Marine Corps

As an engineering officer in the U.S. Marine Corps, was trained in both building construction and in heavy equipment operation. In the capacity as heavy equipment officer, managed an 85-man unit of heavy equipment personnel. While serving in the engineer reserve on completion of active duty, learned to utilize PERT/CPM methods.

1954—1957 University of Washington

While serving as an undergraduate research assistant at the University of Washington, was responsible for the greenhouse portion of a large research program dealing with the nutrient requirements of conifer trees growing in the State of Washington. Was awarded the Marine Corps Association award for outstanding leadership in Naval ROTC.

Pre—1954 International Paper Company

During the two summers prior to entering the University of Washington, worked for International Paper Company as a forester's aide.

Professional Affiliations

The Soil Science Society of America
American Agronomy Society
Crop Science Society
Society of American Foresters

Workshops and Courses

Economics of National Security, Industrial College of the Armed Forces, 1961
Heavy Equipment Construction, Engineer Schools, U.S. Marine Corps, 1959
Construction, Engineer Schools, U.S. Marine Corps, 1958

Awards and Honors

Personalities of the West and Midwest

Publications

"Distribution of Suspected Environmental Carcinogens." Presented in Proceedings of the Conference on Chemical Carcinogens in the Environment: Emissions and Control, edited by Joseph Behar and Sheldon K. Friedlander. California Institute of Technology (in press), 1978

"Selective Inhibition of Cation Absorption by Uranyl" (with D.P. Moore and E.V. Maas), Nature 209:318-319, 1966

Reports

"Retention of Elemental and Particulate Radioiodine of Alfalfa" (with K.W. Brown, H.W. Hop, and J.C. McFarlane), NERC-LV-539-33, National Environmental Research Center--Las Vegas, Environmental Protection Agency, Las Vegas, Nevada, 1974

"Plant Radioiodine Relationships--a Review" (with J.C. McFarlane), SWRHL-90, Southwestern Radiological Health Laboratory, Las Vegas, Nevada, 1969

"Tritium Uptake Following a Thermonuclear Test" (with W.J. Wipper and V.D. Leavitt), Environmental Contamination by Radioactive Materials, International Atomic Energy Agency, Vienna, Austria, 1969

"Planting Forest Trees on Old Fields," Special Report 139 (with C.L. Hawkes), Agricultural Experiment Station, Corvallis, Oregon, 1962

Presentations

"Retrospective Modeling of Ambient Concentrations of Benzo-a-pyrene" (with Niren L. Nagda, John R. Ward, and Leon S. Pocinki). Paper No. 78-6.5, presented at the Air Pollution Control Association meeting June 25-30, 1978, Houston, Texas