

HALIL I. AVCI

Manager, Radiological Health Risk Section
Manager, Environmental Health Risk Section
Environmental Science Division
Argonne National Laboratory

Education:

Ph.D. University of Wisconsin-Madison, Nuclear Engineering, 1978
M.S. University of Wisconsin-Madison, Nuclear Engineering, 1975
B.S. University of Wisconsin-Madison, Nuclear Engineering, 1973

Professional Experience:

2010-Present Program Manager
1993-Present Section Manager
1990-Present Environmental Systems Engineer
Environmental Science Division
Argonne National Laboratory

As the Manager of two sections (Radiological Health Risk and Environmental Health Risk) in the Environmental Science Division (EVS), supervises fifteen full time and approximately ten part time technical staff. As the manager of Argonne's Technical Assistance Program to the U.S. Nuclear Regulatory Commission (NRC) for licensing of new reactors and license renewal of operating reactors, manages over 30 task orders with an annual budget of over three million dollars. As a technical staff member, directs or performs projects related to environmental management of nuclear/industrial facilities and radioactive materials. Has managed Argonne's technical support program to the U.S. Department of Energy (DOE) for management of Depleted Uranium Hexafluoride (DUF6) since 1999. Recent major project-related responsibilities include technical direction and management of one environmental impact statement (EIS) for the construction and operation of a uranium enrichment facility using the General Electric – Hitachi Global Laser Enrichment technology and three EISs related to management of DOE's stockpile of DUF6.

Summary of Previous Experience:

1985-1989 Battelle Memorial Institute
Office of Waste Technology Development
Willowbrook, Illinois

Principal investigator for the analysis of the postclosure performance of geologic repositories for the disposal of spent nuclear fuel and high-level waste. The project was conducted for the DOE's Repository Technology Program Office in Chicago.

1982-1985 Battelle Memorial Institute
 and Battelle Columbus Laboratories
1978-1980 Columbus, Ohio

As a research scientist, was the principal investigator and technical analyst for many activities related to assessment of the consequences of nuclear reactor accidents. Most of the projects were conducted for the Nuclear Regulatory Commission.

1980-1982 Nuclear Engineering Department
 Bogazici University
 Istanbul, Turkey

As an assistant professor, taught graduate and undergraduate courses in nuclear engineering and mathematics. Conducted research on industrial applications of radioisotopes. Supervised one master's thesis and took part in several master's thesis review committees.

1974-1978 Nuclear Engineering Department
 University of Wisconsin
 Madison, Wisconsin

As a research assistant, participated in the conceptual design of several large fusion reactors. Was actively involved in the blanket design and the materials and radiation damage aspects of these reactors. Doctoral thesis topic was related to the radiation damage problems in fusion reactor first structural walls.

Research Interests:

Environmental transport, human health effects, environmental compliance strategies, safety analysis, and sustainable practices

Professional Activities:

Member, American Nuclear Society
Member, Health Physics Society

Other:

2003 – Present Lecturer, Northwestern University, School of Continuing Studies
 (Courses taught: Environmental Literacy, Energy and the Environment,
 Environmental Impact Evaluation and Hazardous Waste Management)

2007 – Present Chair, EVS Hiring and Promotion Committee

Publications:

Author and co-author of 40+ journal, report, and conference publications and presentations.