

## HALIL I. AVCI

Radiological Health Risk Section  
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:

1990-Present Environmental Systems Engineer  
Environmental Science Division  
Argonne National Laboratory

As the Manager of the Radiological Health Risk Section and the Environmental Health Risk Section, supervises fourteen technical staff. As a technical staff member, directs or performs projects related to environmental management of nuclear or industrial facilities and radioactive materials. Recent major project-related responsibilities include management of the final environmental impact statement (EIS) for the construction and operation of a mixed oxide fuel fabrication facility at the Savannah River site, project leadership for the ANL Depleted Uranium Hexafluoride Management Program support activities (including the preparation of three EISs), technical direction of the ANL Waste Management Programmatic Environmental Impact Statement Technical Support Program, and leadership of the spill analysis team for the Trans Alaska Pipeline System Right-of-Way Renewal EIS.

### 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 of radionuclides  
Radiation health effects  
Measurement and detection of radionuclides in environmental media  
Environmental compliance strategies  
Facility Safety Analysis

### **Professional Activities:**

Member, American Nuclear Society  
Member, Health Physics Society

### **Publications:**

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