

Karl Fischer
Statement of Professional Qualifications

CURRENT POSITION

Environmental Systems Engineer
Radiological Health Risk Section
Environmental Science Division
Argonne National Laboratory
Argonne, IL

EDUCATION

M.Eng., Radiological Health Engineering, University of Michigan
B.S.E., Nuclear Engineering, University of Michigan

PROFESSIONAL

Certified Health Physicist, 2004 (recertified 2008)
Health Physics Society, Member

QUALIFICATIONS

Mr. Fischer is a health physicist with over 14 years of work experience in environmental, defense, and medical/research applications. At Argonne National Laboratory (Argonne), he has provided health physics and programmatic support for various Federal sponsors, including technical analysis (in resource areas including radiological health, transportation, and waste management), program management, and document management for NEPA-based environmental impact assessments; Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM)-based closure survey design; and inventory of radiological sources and facilities for use in vulnerability assessment and threat reduction. His areas of expertise are health physics and radiological health risk, including radiological transportation risk.

Prior to joining Argonne in 2008, Mr. Fischer worked for three years at Northrop Grumman Information Technology, serving as Deputy Program Manager for the Nuclear Test Personnel Review Program, Defense Threat Reduction Agency, U.S. Department of Defense. He provided comprehensive support of day-to-day program activities, including program administration and management, radiation dose reconstruction policy analysis and development, case management, and interagency relations.

From 1997 to 2005, Mr. Fischer worked as a health physicist and senior health physicist for the National Institutes of Health (NIH), Division of Radiation Safety, U.S. Department of Health and Human Services, ensuring radiological protection of personnel and compliance with regulations governing the use of ionizing radiation at the Federal government's premier biomedical research institution. He provided independent health physics oversight of laboratory operations and new/developing research protocols, including the NIH Cyclotron Facility and associated radiochemical synthesis and research laboratories. His responsibilities included radiation safety surveillance, consultation, and policy enforcement; personnel and environmental effluent monitoring; intake/exposure and security investigations; waste stream analysis, minimization, and incident investigation; emergency and spill response; and decontamination/clearance of

rooms and equipment. He periodically functioned as Acting Branch Chief, providing day-to-day oversight of branch operations, coordinating incident response, and participating in policy development.

Prior to earning his graduate degree, Mr. Fischer worked as a health physics intern for the University of Michigan Radiation Safety Service, and as an environmental intern for Westinghouse Hanford Company at the U.S. Department of Energy's Hanford Site.