

JAMES P. BUTLER

Environmental Health Risk Section
Environmental Science Division
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Education:

Ph.D. New York University, Environmental Health Sciences, 1985
M.S. New York University, Environmental Health Sciences, 1981
A.B. Colgate University, Biology, 1978

Professional Experience:

2004-Present Senior Fellow
 Center for Environmental Science
 The University of Chicago

1992-Present Environmental Systems Engineer
 Environmental Science Division
 Argonne National Laboratory

Currently a technical lead for homeland security assessments and risk/decision analysis methodologies for the DHS and EPA; environmental data management support to the U.S. Army Corps of Engineers on the Indiana Harbor and Canal project; and the evaluation of potential occupational and public health and safety impacts associated with wind energy development on western public lands administered by the BLM. Previously, principal investigator for the EPA-funded study “Cumulative Risk Assessment for the Chicago Metropolitan Area”; team leader for the human health risk assessment of contaminated soils and groundwater at the U.S. Army Yuma Proving Ground; health and safety team leader for the Trans-Alaska Pipeline System EIS; and principal investigator for a study to develop a risk-based screening approach for deriving cleanup criteria at numerous sites in the Air Force environmental restoration program. Risk assessment task leader for several projects at Aberdeen Proving Ground: cumulative impact assessment included the evaluation of occupational/public health risks and waste management issues at the Edgewood and Aberdeen areas; J-Field focused feasibility study involved the development of preliminary remediation goals and analysis of selected alternatives for the protection of human health; and the environmental assessment for the pilot plant complex included an evaluation of the proposed risk analysis methodology for demolition of contaminated buildings.

Summary of Previous Experience:

1987-1992 NJ Department of Environmental Protection, Trenton, NJ

As Assistant Director, was responsible for directing the State’s environmental research program, with the goal of providing a sound scientific base for DEP’s regulatory actions and policy decisions. Directed the program’s research and technical support staff (~20 scientists/engineers) in a wide range of environmental areas relating to the behavior, fate, and effects of chemical contaminants released into the environment. Served as an advisor on environmental health issues and as a liaison with other agencies, particularly regarding exposure and risk

analysis. Responsible for communicating risks and research findings to both the scientific community and the public, as well as interpreting environmental, scientific, and technical issues for state/federal laws, regulations, and policy decisions. Managed a variety of research programs designed to fill specific data gaps and support regulatory information needs in the areas of total human exposure, health risk assessment, air toxics, and environmental health policy.

1984-1987 Ebasco Environmental/Ebasco Services Inc., Lyndhurst, NJ

As a Senior Environmental Scientist, conducted baseline risk assessments to determine potential adverse health effects at several hazardous waste sites and evaluated the human health risks of remedial alternatives. Estimated health risks associated with stack emissions from a proposed resource recovery facility via multiple exposure pathways. Conducted site-specific risk assessment investigating chronic health effects related to effluent from a coal-fired power plant.

1978-1984 Institute of Environmental Medicine, NYU Medical Center, Tuxedo, NY

As a Graduate Research Assistant, developed a screening system to evaluate mutagenic and chemical characteristics of complex environmental mixtures. Participated in laboratory and field research on hazardous air pollutants in Airborne Toxic Elements and Organic Substances (ATEOS) Study. Conducted inhalation toxicology studies on the development of atherosclerosis.

Research Interests:

Developing approaches for assessing human health risks from multipathway chemical exposures; evaluating cumulative risks from multiple exposure sources; developing forums for communicating risk information on the Internet; and urban environmental health issues.

Professional Activities:

Adjunct Faculty, Illinois Institute of Technology, Environmental Management Program and Department of Chemical and Environmental Engineering, 1995-present; and Stockton State College, Environmental Studies Program, 1992.

Peer Reviewer, e.g., EPA's *Regional Air Impact Modeling Initiative (RAIMI): Pilot Study*, 2002; *Chemical Assessment Guidelines for Listing and Delisting Chemicals Under Section 313 of the Emergency Planning and Community Right-to-Know Act*, 2002; *Framework for Cumulative Risk Assessment*, 2001; *Human Exposure and Human Risk Modules for the Multimedia, Multipathway, and Multiple Receptor Risk Assessment (3MRA) Model*, 2000; *Human Health Risk Assessment Protocol for Hazardous Waste Combustion Facilities*, 2000.

Web Site Manager for Society for Risk Analysis <<http://www.sra.org>>, 2000-present; and International Society of Exposure Analysis <<http://www.iseaweb.org>>; 1996-1999.

Referee, *Environmental Science and Technology*; *Risk Analysis*; *Journal of Exposure Analysis and Environmental Epidemiology*; and *Environmental Management*, 1994-present.

Editor, *ISEA Newsletter*, International Society of Exposure Analysis, 1993-96.

Publications:

Author or co-author of 85+ journal, book, report, and conference publications and presentations.