MICHAEL R. AMES, Sc. D.

EDUCATION

1995. Sc.D. Nuclear Engineering. Massachusetts Institute of Technology, Cambridge, MA
Designed and implemented air sampling and analytical program for the study of ambient atmospheric mercury. Apportioned point and regional sources of particulate-phase mercury and other trace metals by receptor modeling. Studies in: atmospheric chemistry and physics, nuclear waste technology, environmental transport, nuclear reactor design, health physics.

1986. M..S. Nuclear Engineering. Massachusetts Institute of Technology, Cambridge, MA
Characterized thermal and mechanical property changes of irradiated alloys for fusion first wall applications. Studies in: physical metallurgy, fracture mechanics.

1984. B.S. Nuclear Engineering. Massachusetts Institute of Technology, Cambridge, MA
Studies in: nuclear and mechanical engineering, physics, nuclear plasma diagnostics.

PROFESSIONAL EXPERIENCE:

2000-Present. Associate Engineer, Cambridge Environmental Inc., Cambridge, MA.
1998-2000. Research Scientist, M.I.T. Center for Environmental Health Sciences.
1995-1998. Postdoctoral Associate, M.I.T. Nuclear Reactor Laboratory, Cambridge, MA.
Performed and supervised the sampling and elemental analysis of environmental materials by Instrumental Neutron Activation Analysis (INAA). Identified and apportioned sources of measured components by receptor modeling in a variety of environmental and source media.
1986-1990. Research Engineer, M.I.T. Nuclear Reactor Laboratory, Cambridge, MA.
Designed, constructed, and operated in-core coolant corrosion testing loops to support worker dose reduction and corrosion control.

CURRENT PROJECT EXPERIENCE:

Conducting health risk assessment relating to PCB's in the Kalamazoo River and Portage Creek, Michigan.

Performing physiologically based pharmacokinetic (PBPK) modeling of trichloroethylene (TCE) and its metabolites to evaluate the health risks of exposure to low levels of TCE in municipal water supplies.

Evaluating the exposure to atmospheric particulate material from both natural background and long-range anthropogenic sources in relation to the impact of specific local sources.

PUBLICATIONS AND REPORTS:

A list of publications and reports will be provided upon request, and is also available at our web site (www.cambridgeenvironmental.com).