



CREDENTIALS

- ◆ *M.S., Environmental Studies – Atmospheric Science, University of Massachusetts-Lowell, MA, 2004*
- ◆ *B.S., Computer Science, University of Massachusetts-Lowell, MA, 1991*
- ◆ *Air & Waste Management Association (A&WMA)*
- ◆ *American Meteorological Society (AMS)*
- ◆ *University of Massachusetts – Lowell Department of Environmental, Earth, and Atmospheric Sciences Advisory Board Member*

PROFESSIONAL EXPERIENCE

- ◆ **2020-Present:** *ALL4 LLC, Boston, MA – Technical Director*
- ◆ **2013-2020:** *ERM, Boston, MA –Principle Consultant / Air Quality Technical Community Coordinator, North America.*
- ◆ **2004-2013:** *ENSR/AECOM – Senior Air Quality Meteorologist*

TECHNICAL EXPERTISE

- ✓ *Air dispersion modeling*
- ✓ *Air quality impact assessments*
- ✓ *Health risk assessments*
- ✓ *Regulatory analysis*
- ✓ *Environmental Impact Assessments*
- ✓ *Local and federal air permitting*
- ✓ *Litigation support*
- ✓ *Meteorological and Climate Change Data Services*
- ✓ *Cooling tower and visible plume modeling*
- ✓ *Software Development (FORTRAN / C++, etc.)*

PROFESSIONAL OVERVIEW

Mr. Richard Hamel is a senior air quality consultant with nearly 20 years of air dispersion modeling and permitting experience. He is an experienced air dispersion modeler, having performed dozens of air modeling analyses with U.S. EPA's preferred air dispersion model, AERMOD, and has worked closely with many state agencies and U.S. EPA in negotiating complex modeling approaches on behalf of clients in support of major capital projects. His range of experience spans numerous key industry sectors, including power, metals, oil and gas, chemical, technology, and manufacturing. He has also provided expert analysis in numerous litigation support cases.

Mr. Hamel is also experienced in developing comprehensive air quality impact analyses for US and international environment impact assessments and has managed efforts across all aspects of the environmental and social issues on large infrastructure projects.

Additionally, Mr. Hamel is a veteran software developer, having developed numerous utilities and post-processors for U.S. EPA's AERMOD model, including the Emissions Variability Processor (EMVAP) and Portable Source Modeling Processor (TRANSVAP) and has worked with U.S. EPA's Office of Air Quality Practices and Standards (OAQPS) related to modeling improvements and issues.