



PAUL J. MAROTTA, P.E., Ph.D.

EDUCATION:

Ph.D. Mechanical Engineering, University of Tennessee, Knoxville, Tennessee
Manufacturing Executive Program, University of Michigan School of Business, Ann Arbor, Michigan
M.S. Engineering, Union College, Schenectady, New York
B. S. Mechanical Engineering, Manhattan College, Riverdale, New York
B.S. Applied Mathematics, Siena College, Loudonville, New York

PROFESSIONAL LICENSES AND REGISTRATIONS:

Professional Engineer: New York, Michigan, Arkansas and Kentucky

PROFESSIONAL MEMBERSHIPS AND AFFILIATIONS:

American Nuclear Society (ANS)
National Council for Air and Stream Improvement (NCASI)

OTHER:

Inactive DOE Security Clearance (Knolls Atomic Power Laboratory)

CURRENT PROFESSIONAL INVOLVEMENT: 2012 - present, **AquAeTer**, Technical Director

Dr. Marotta is in charge of Technical aspects of wastewater and air quality projects for **AquAeTer**. Dr. Marotta provides a broad range of expertise in mechanical, nuclear, industrial and environmental engineering. Environmental experience includes facility and corporate level environmental compliance responsibilities. Dr. Marotta currently directs design and mathematical modeling for air, water, wastewater, soils, and groundwater treatment projects. Nuclear experience includes thermal design and performance analysis for the naval reactors (RSPA), design and installation of emergency fill systems, reactor vessel brittle fracture prevention analysis and new reactor prototype concept development. These areas required extensive computer modeling using complex dynamic simulations and three-dimensional finite element analysis. Dr. Marotta has successfully facilitated high performance work teams within an established unionized manufacturing environment. Industrial experience includes several positions within pulp and paper manufacturing, with management expertise ranging from large capital projects, to plant manager, to technical consultant. Dr. Marotta is an adjunct assistant professor and teaches graduate level Heat Transfer at the University of Tennessee Space Institute.

PRIOR PROFESSIONAL INVOLVEMENT:

2001-2012 **AquAeTer**, Nashville, Tennessee, Operations Manager (12 technical staff)
1997-2001 International Paper, Cincinnati, Ohio, Senior Staff Engineer, Environmental Technology
1995-1997 International Paper, Liquid Packaging, Kansas City, Kansas, Plant Manager (150 employees)
1992-1995 International Paper, Folding Carton, Clinton, Iowa, Manufacturing Manager (850 employees)
1990-1992 International Paper, Corporate Environment, Memphis, Tennessee, Corporate Environmental
1988-1990 International Paper, Ticonderoga Mill, Ticonderoga, New York, Capital Project Engineer-Power, Air and Water
1986-1988 General Electric, Knolls Atomic Power Lab, Schenectady, New York, Structural Design Engineer-Brittle Fracture Analysis of Reactor Vessel/Heavy Equipment
1984-1986 General Electric, Knolls Atomic Power Lab, Schenectady, New York, Field/Construction Engineer Emergency Fill System and Equipment Installation
1981-1984 General Electric, Knolls Atomic Power Lab, Schenectady, New York, Thermal/Hydraulic Design-Trident Reactor

AREAS OF EXPERTISE:

Nuclear

Thermal Performance Analysis
Brittle Fracture Analysis
Emergency Fill Systems

Environmental

Regulatory Permitting & Compliance
BMPs
Ambient Air Monitoring & Modeling
Remediation System Design & Implementation
Soil and Groundwater Investigations
Innovative Treatment Technologies
Wastewater Evaluation & Design

Manufacturing

Facility Turnaround and Process Optimization
Pulp and Paper
Converting
Printing