

Y. EUGENE YAN

Applied Geosciences and Environmental Management Section
Environmental Science Division
Argonne National Laboratory

Education:

Ph.D. The Ohio State University, Hydrogeology, 1998
M.S. Kent State University, Geophysics, 1993
M.S. Tongji University, Marine Geology, 1985
B.S. Tongji University, Geological Engineering, 1982

Professional Experience:

1998-Present Hydrologist
 Environmental Science Division
 Argonne National Laboratory

Responsible for (1) leading hydrological studies on remedial investigations at hazardous waste sites, simulation of hydrologic processes from local specific sites to large-scale watersheds, quantification of renewable water resources for sustainable development, (2) developing and applying innovative technologies to restore contaminated sites, and (3) investigating the interactions between water, energy production, and climate change.

Summary of Previous Experience:

1998 Post-Doctoral Research Associate
 The Ohio State University

Responsible for a research project sponsored by Department of Energy to develop an in-situ chemical remediation technology for degradation of chlorinated solvents in subsurface,

1997-1998 Hydrogeologist
 Metcalf & Eddy, Inc

Responsible for (1) developing site-specific models and simulating groundwater flow and mass transport for evaluating remediation alternatives at a major superfund site in Ohio and (2) performing risk assessments for petroleum and VOC contaminated sites with numerical and analytical methods.

Research Interests:

Develop innovative in-situ contaminant remediation technologies

Design and optimize remediation systems

Quantify renewable water resources in a large-scale watershed for sustainable development

Investigate/simulate the interactions between water, energy production, and climate change

Characterize/simulate the complex hydrologic systems and associated contaminant migration

Professional Activities:

Instructor for the UNDP short course on surface water and groundwater modeling at Cairo University, Egypt, 2003 and 2004

Member, The American Geophysical Union (AGU)

Member, Geological Society of American (GSA)

Member, National Ground Water Association (NGWA)

Publications:

Author or co-author of 60+ journal, conference publications, reports, and presentations.