

PATRICK HOGAN

Professional Experience

- **Learning Technologies Deputy and Manager (2002 – Present)**

NASA Ames Research Center, Moffett Field, California;

- Manage NASA's incubator program for educational technology that leverages NASA content.

- **Safety and Occupational Health Manager (1997 – 2002)**

NASA Ames Research Center, Moffett Field, California;

- Supported a Center-wide program of safety, health and medical including comprehensive safety awareness programs, safety database development and implementation as well as the promotion of programs to instruct and motivate managers and employees in the prevention as well as correction of potential hazards.
- Lead on the Source Evaluation Committee (SEC) in preparing the specifications for the RFP for the Occupational Safety Division's 5-year, \$50 million support services contract. This required resolution of significant budgetary issues, work schedules, quality assessment criteria, customer satisfaction award fee, and mission accomplishment.
- Managed the development of the Center's Safety Accountability/Safety Awareness Program, a new program that includes scheduling (time management and decision-making) of workloads for coding of software design, data entry, and the personnel for accomplishing these tasks.
- Designed and managed the development of the Center's Safety and Environment Web-based Training Program that included over \$300,000 dollars of contracted services and was promoted by Headquarters as the model for the Agency.

- **Senior Hydrogeologist (1991 – 1997)**

NASA Ames Research Center, Moffett Field, California;

- Lead investigator and technical writer for large contaminated federal facility proposed for listing as a Superfund site.
- Primary designer and author for all reports, including workplans and investigation results, submitted to State and federal regulatory agencies.
- Represented NASA to the regulatory agencies, playing a pivotal role in NASA having been removed from consideration as a Superfund site.
- Developed and managed NASA's soil and groundwater programs (investigation, assessment, and remediation)
- Developed and manage the GIS which incorporated 15 years worth of soil and groundwater data for the two neighboring Superfund sites, as well as NASA.

- **Program Manger for Indian Lands, Hydrogeologist (1990 – 1991)**

U.S. Environmental Protection Agency (EPA), San Francisco, California;

- Technical reference for RCRA Subtitle I, Underground Storage Tanks (UST);
- Managed oversight of tank removal activities including site assessment for closure.
- Motivated environmental accountability of responsible parties through conscientious use of *implementing agency* powers.
- Directed site characterization, remediation design and implementation through a combination of technical guidance and workplan approval.

- **Project Hydrogeologist (1987 – 1990)**

Dames & Moore, San Francisco, California;

- Design and manage hydrogeologic investigations ranging in characteristic and dimension from hydrocarbon contamination at service stations to listed toxic substances at Superfund sites involving property assessments, NPL and SWAT studies, ROWD assessments, and NPDES estimates.
- Apply numerical model analyses to contaminant migration at petroleum refinery for remediation design and successful implementation.
- Perform waste classification studies and prepare SARA Title III Business Plans and Hazardous Materials Management Plans.

- **High School Science Teacher (1986 – 1987)**

- **Hydrogeologist; Environmental Monitoring Program (1984 – 1986)**

Lawrence Livermore National Laboratories; Livermore, California

- Evaluate lysimeter and tensiometer data to track tritium transport through the vadose zone;
- Establish numerical model of the transport process involved with freshwater-seawater interaction.

- **Commercial Diver and Diving Supervisor (1974 – 1977)**

Martech International, Singapore; 1976 - 1977

Comex Far East, Singapore; 1975 - 1976

International Underwater Contractors, New York; 1974 - 1975

- Plan and execute bell dives in excess of 500 feet from offshore drilling rigs of Africa India, Indonesia.

Education

San Jose State University, California

M.S. Geology, 1988

- Thesis: Application of computer transport model for simulation of tidally induced freshwater-seawater interaction.
- California State high school teaching credential for science.

University of California, Santa Cruz

B.S. Geology, 1983

Santa Barbara City College, California

A.S. Marine Diving Technology, 1974

- Engineering and maintenance of high pressure life support systems, e.g. diving bells, decompression chambers, and gas mixtures.

Professional Licenses

- Registered Geologist, California; 3/93
- Registered Environmental Assessor, California; 1/93
- Private Pilot License, 7/73
- High School Teaching Credential for Science, California, 5/86

Publications

"Modeling of Freshwater-Seawater Interaction of Enjebi Island, Enewetak Atoll," Journal of Hydrology, 1990.

"Transport Modeling of Freshwater-Seawater Interaction of Atoll Islands," paper presented at national conference of Association of Engineering Geologists (AEG), 1986.

"Parameter Estimation for Vertical Groundwater Flow of Atoll Islands," paper presented by invitation to Hawaii State Water Resources Department conference, 1987.

"Modeling of Freshwater-Seawater Interaction of Enjebi Island, Enewetak Atoll," paper presented at annual meeting, American Geophysical Union (AGU), 1987.

Authored several commercial environmental hypertext programs currently licensed to State agencies and private industry.