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Education

1976 B.A., Geology, Colorado College (magna cum laude).
1982 M.S., Geology, University of Colorado
2006 MBA Mercy College, New York (with distinction). Concentration: Management
Thesis: *Strategic Choices for Managing the Transition from Peak Oil to a Reduced Petroleum Economy*

Employment History

2002-Present **Division Administrator, Lamont-Doherty Earth Observatory of Columbia University, New York.** Administrator for approximately 65 Ph.D. research scientists in Marine Geology and Geophysics. Responsible for financial and contractual management of over 150 sponsored research grants and institutional accounts.

1997-2001 **Managing Director, 30/70 Productions Ltd., Croton-on-Hudson, New York.**
30/70 assembled teams of creative specialists to propose, design, and build responsive environment exhibits and installations. Projects were funded by public and government agencies, including museums and art support organizations. Handled all aspects of financial administration, including preparation of cost proposals and day-to-day management of contracts and grants from $15K - $1 million. Managed teams of up to 18 international artists, designers, and programmers. Responsible for subcontractor procurement and management, equipment purchases, billing, and payroll. Worked with upper management of funding organizations on all financial/contractual matters, including client relationships, contract reporting and compliance. Effective liaison between artists, scientists, production staff and institutional management.

Highlights:

- *Field Museum of Natural History, Chicago* - Wrote and managed a grant to design and produce a groundbreaking Millennium exhibition. *"Sounds from the Vaults"*. This collaboration between Museum scientists and 30/70 designers required 1.5 years and $1 million to develop. The 6-month exhibit was extended to 10 months, entertaining more than 100,000 visitors and receiving universally high ratings. It was featured in Wired Magazine and on National Public Radio.
- Coordinated production of "virtual instrument" CD Rom and multimedia workstation for *"Sounds from the Vaults"* that received the *2000 Golden Muse Award for Interactive Media* from the American Association of Museums.
- *Planet Earth Gallery, The Earth Centre, South Yorkshire, United Kingdom* – Managed contracts totaling $800 K to design and oversee the building of an immersive multimedia exhibit for an educational park to introduce visitors to the theme of sustainable development.

1990-1997 **Project Manager/Research Geologist, CDM Federal Programs, New York, NY.**
Managed projects contracted by federal agencies for scientific investigations of hazardous waste sites in New York, New Jersey, Puerto Rico and U.S. Virgin Islands. Individual projects ranged from $30K to $2 million in size and required coordinating multi-disciplinary staffs of 5-30, including geologists, drilling crews, hydrogeologists, environmental scientists, risk assessors, chemists and engineers. Analyzed and interpreted data to determine nature and extent of contamination and recommended remedial actions. Wrote and edited technical reports for review by Federal and State agencies. Responsible for budgets, schedules, technical quality, staff evaluations, subcontractor procurement/management, and equipment rentals/purchases for field work. Primary interface between technical staff and upper management. Handled all day-to-day client contact, correspondence and briefings to upper management, presentations, contract performance monitoring, and contractual/financial reports.

Highlights:

- Authored technical response section of winning proposal for $300 million EPA regional 10-year contract for contaminant investigations, engineering feasibility studies and remedial design for "Superfund" hazardous waste sites.
- Designated as CDM's "Innovation Advocate" to sit on senior technical review panels, evaluating technical project approaches at the concept development phase.
- Wrote proposals and budgets for $12.5 million of DOE contracts to perform soil and groundwater investigations at Brookhaven National Laboratories.
- *Brookhaven National Laboratories, Long Island* – Managed Remedial Investigations of radiologically contaminated soil and groundwater for three Operable Units.
    - Worked with health physicists to develop company health and safety protocols for staff working in controlled radiation areas, and protocols for validation of radiological laboratory data.
    - Designed customized project database to accommodate uncertainties in reporting radiological concentrations.
    - Managed predictive modeling of migration of strontium-90 in groundwater to determine maximum onsite cleanup levels that would attenuate to drinking water standards by the time the water reached the site boundary.
    - Coordinated specialists performing radiological risk assessment, chemical risk assessment, and ecological assessment to ensure they used the same data sets and to integrate their conclusions.
    - Prepared project reports that passed review by regulatory agencies DOE, EPA, and NYSDEC with only minor comments and revisions.
- *Ciba-Geigy Toms River Chemical Plant, New Jersey* – Managed groundwater modeling studies to determine extraction well placement and pumping rates to capture contaminated water for remedial design. Designed and managed water quality studies of Toms River and wetlands to establish baseline conditions to be used for future monitoring of the effectiveness of remedial actions.
- Attended public meetings on EPA's behalf to present investigation results and address questions of local residents.

1982-1989 **Project Manager/Geologist, Research Planning Institute (RPI), Boulder, Colorado.**

RPI produced regional geological studies for a client base of mid-sized to major oil companies. As a research scientist, I performed core studies, field mapping, petrographic analysis, basin analysis, reconstruction of paleo-depositional environments, and prepared detailed, illustrated reports and presentations for clients. Simultaneously, as project manager, I was responsible for client correspondence and all project budgets, schedules, resource allocation, performance monitoring, and staff hiring/firing. Became early user and advocate of critical path management software.

Highlights:

- Supervised staffs of up to 23 scientists and technicians on projects lasting from 9 to 20 months with budgets of $400K to $1.4 million.
- Designed and developed a comprehensive stratigraphic digital database of 37,000 wells in the Powder River Basin. Managed three teams of professionals and pool of technicians to produce an internally consistent, regional data set. The project was subscribed by 5 major oil companies.
- Managed two regional stratigraphic studies of the Cretaceous Muddy Sandstone (combined budgets of $600K) that set the industry standard for the interpretation of oil distribution within this producing sandstone.

1977-1981 **Geologist, U.S. Geological Survey, Branch of Exploration Research, Lakewood, Colorado**. Assessed mineral resource potential of federal lands using stream sediment geochemistry to search for trace-element dispersion halos from buried ore bodies. Assisted senior scientists to develop geochemical exploration techniques for lead-zinc deposits in carbonate terrains. Performed field sampling, mapping, data entry and analysis, and technical report writing.

Honorary Society Memberships

Phi Beta Kappa – Elected 1976.
Delta Mu Delta – Honorary Business Society. Elected 2006.

Volunteer Work

Association for the Study of Peak Oil and Gas (ASPO-USA), Board of Directors April 2007–present.
Croton Water Control Commission. Member 1998-2002, Chair 2001-2002.
Implemented Village Code for the Protection of Wetlands and Watercourses
Croton Waterfront Advisory Committee. Member 2001-2002
Reviewed proposed construction and development activities for consistency with Village Local Waterfront Revitalization Plan, enacted under the Federal Coastal Zone Management Act.