

EDUCATION

M.S. The Pennsylvania State University. August 2001. Environmental Pollution Control

Thesis title - Luminescence of speleothems as an indicator of paleoclimate: Correlation with contemporary climate records.

B.S. The Pennsylvania State University. December 1996. Environmental Resource Management

Relevant Courses:

Hydrogeology, Environmental Organic Chemistry, Water Geochemistry, Karst Hydrology, Soil and Water Engineering, Soil and Water Resource Management, Land Waste Disposal, Pollutant Transport in Soils, Watershed Management, Pollutant Impacts on Water, Aquatic Ecology, Wetlands.

Continuing Education:

- The MODFLOW Course: “Theory and Practical Applications in Natural Attenuation, Remediation Design, and Water Resource Management using Visual MODFLOW Pro” by Robert Cleary, Thomas Franz, and Nelson Guiguer/NGWA, March 5-7, 2002.
- “Automated Model Calibration Using WinPEST” by John Doherty/NGWA, March 8, 2002.
- Karst Waters Institute Interdisciplinary Workshop on Epikarst. October 1-4, 2003.
- U.S. EPA/NGWA Fractured Rock Conference: State of the Science and Measuring Success in Remediation. September 13-16, 2004.

Certifications:

- 40-Hour OSHA HAZWOPER certified.
- Waste Site Worker Supervisory Training in accordance with 29CFR 1910.120(e)(4), April 27, 2001.
- Hazardous Waste Site Worker Refresher Training (8 hours annually) in accordance with 29CFR 1910.120(e)(8), State College, PA.
- Red Cross CPR, First Aid, and AED certification, June 2001.
- Mine Safety Training in Accordance with MSHA 30CFR Part 46, Training/Retraining of Miners. May 31, 2002, plus annual Miner Refresher Course.
- American Safety and Health Institute Approved Basic First Aid and Adult CPR Certification, plus annual re-certification.
- Permit-Required Confined Space Training, Including Entrant, Attendant and Supervisor Non-Entry Rescue. August 2, 2004

EXPERIENCE

December 2000 to present: *Staff Geoscientist, Meiser & Earl, Inc., State College, Pennsylvania.* Responsible for hydrogeologic and geochemical investigations for quarry permitting, well and surface water sampling and monitoring, aquifer characterization studies of landfills and drinking water supplies, site assessment for sinkhole development, pollutant transport modeling, groundwater modeling, and statistical evaluation of landfill monitoring data.

January 1999-May 2001: *Research Assistant, National Science Foundation Grant # EAR9809138.* Performed research relating to speleothems and possible paleoclimate relationships of luminescence and trace element concentrations measured in speleothems.

April 1997 to December 1998: *Technical Representative, Nalco Chemical Company, Pittsburgh, Pennsylvania.* Sampled, analyzed, and reported on waste, process, and boiler waters. Made recommendations and adjustments based on sampling results. Installation and troubleshooting of chemical feed systems.

May 1996 to August 1996: *Scientific and Technical Intern, Department of Environmental Protection, Williamsport, PA.* Sampled and reported on effluent from municipal sewage treatment plants and single residence sewage treatment plants.

PROFESSIONAL AFFILIATIONS

- National Ground Water Association, Association of Ground Water Scientists and Engineers

AWARDS/ACTIVITIES

Member National Speleological Society

Recipient of James Mitchell award for best scientific paper presentation – 1999 NSS Convention

Member of Nittany Grotto

Head Project Cartographer – Kookon Cave Project 10/96 - present

Eagle Scout

PUBLICATIONS

- Sasowsky, I.D., R.A. Clotts, B.E. Crowell, S.M. Walko, E.J. LaRock, and W. Harber T. 2004. *Paleomagnetic Analysis of a Long-Term Sediment Trap, Kookon Cave, Huntingdon County, Pennsylvania, USA.* In: *Studies of Cave Sediments.* Kluwer Academic.