

ERIK MATTHEW CLAPP

EDUCATION

University of Vermont, B.A. Geology, 1989
University of Vermont, M.S. Geology-Water Resources, 1994
University of Vermont, PhD. Candidate-ABD, Natural Resources, 1995-present

AFFILIATIONS

Geological Society of America, since 1991
American Geophysical Union, since 1994
Vermont Geological Society, 1991-1999
Vermont Department of Environmental Conservation, Water Quality Division, Member of
the Urban Runoff Pollution Work Group, 1992-1999
Member of Lewis Creek Association, Ferrisburg VT, 1994-1999

EMPLOYMENT HISTORY

April 1998 to present - Hydrogeologist, Sevee & Maher Engineers, Inc.

May 1994 to April 1998 – Senior Researcher/Lecturer, University of Vermont, Department
of Geology

May 1992 to May 1994 – Research Assistant, University of Vermont, School of Natural
Resources

May 1991 to May 1992 – Teaching Assistant, University of Vermont, Department of
Geology

December 1990 to May 1991 – Field Assistant, US Geological Survey

May 1988 to December 1990 – Energy Conservation Consultant, Constitution Electric
Corporation.

EXPERIENCE

- Sevee & Maher Engineers, Inc. – Hydrogeologist: Specializing in hydrogeology and geochemistry including: geochemical site characterization through surface water and groundwater sampling; evaluation of fate and transport of surface and groundwater contaminants; hydrological characterization of surface and groundwater flow at solid waste facilities, hazardous waste disposal sites, and proposed development sites; and water supply exploration.

- University of Vermont, Department of Geology - Senior Researcher/Lecturer: Supervised and conducted international research projects for U.S. Department of Defense and U.S. Geological Survey on sediment loading to fluvial systems including: sediment transport and hydrologic evaluation of rivers in New England, Southwestern U.S., and the Middle East; and the supervision of the department geochemical laboratories. Instructor for courses in Geohydrology, Geomorphology, and computer simulation of hydrogeologic systems.
- University of Vermont, School of Natural Resources – Research assistant: Collected river samples from urban and agricultural river systems for analysis of phosphates, nitrates, and fecal coliform bacteria; conducted all laboratory analyses; monitored river discharges, watershed precipitation and evaporation; constructed dynamic simulation models to predict nutrient loading to receiving waters.
- University of Vermont, Department of Geology, Teaching Assistant: Instructor for laboratory sections of courses in Geohydrology, Geomorphology, and Introductory Geology.
- U.S. Geological Survey, Field Assistant: Collected watershed snowmelt data at Sleeper's River Experimental Watershed.
- Constitution Electric Corporation, Energy Management Consultant: Conducted energy usage surveys and potential savings analysis for participation in energy conservation programs through Massachusetts power companies.

PUBLICATIONS & PRESENTATIONS

Clapp, E.M., Bierman, P.R., Church, A.B., Larsen, P.L., Schuck, R.A., and Hanzas, J.P., 1994. Teaching Geohydrology Through the Analysis of Groundwater Resources and Glacial Geology in Northwestern Vermont. *Journal of Geoscience Education*, 44, 45–52.

Clapp, E.M., and Bierman, P.R., 1996. COSMO–CALIBRATE: A program for calibrating cosmogenic exposure ages, *Radiocarbon*, 38, p. 151.

Clapp, E.M., Bierman, P.R., Pavich, M., and Caffee, M.. (In Press), Rates of sediment supply to arroyos from upland erosion determined using in situ-produced cosmogenic ^{10}Be and ^{26}Al : *Quaternary Research*.

Clapp, E.M., Bierman, P.R., and Caffee, M.. (In Review), Using ^{10}Be and ^{26}Al to determine sediment generation rates and identify sediment source areas in an arid region drainage basin: *Geomorphology*.

Clapp, E.M., Bierman, P.R., Schick, A.P., Lekach, J., Enzel, Y., and Caffee, M.. (In Review), Differing rates of sediment generation and sediment yield: *Geology*.

Clapp, E.M., Bierman, P.R., and Caffee, M.W., 1999. Sediment generation and export rates in the Nahal Yael drainage basin, determined from cosmogenic ^{10}Be and ^{26}Al , Negev Desert, Southern Israel, International Conference on Desert Hydrology Field Guide, Hebrew University of Jerusalem, p. 231-236.

Clapp, E.M., Bierman, P.B., and Caffee, M.W., 1999. Sediment generation and export rates in the Nahal Yael Drainage Basin, Determined from cosmogenic ^{10}Be and ^{26}Al , Negev Desert, southern Israel: Geological Society of America, Abstracts With Programs, 1998 Annual Meeting, v. 31, p. 342.

Clapp, E.M., Bierman, P.B., and Caffee, M.W., 1998. Estimating Long-Term Erosion Rates in a Hyper-Arid Region Using In Situ-Produced Cosmogenic ^{10}Be and ^{26}Al in Sediment and Bedrock: Geological Society of America, Abstracts With Programs, 1998 Annual Meeting, v. 30, p. 361.

Clapp, E.M., Bierman, P.B., Pavich, M., and Caffee, M., 1997. Rates of Erosion Determined Using In Situ-Produced Cosmogenic Isotopes in a Small Arroyo Basin, Northwestern New Mexico: Geological Society of America, Abstracts With Programs, 1997 Annual Meeting, v. 29, p. 298.

Clapp, E.M., and Bierman, P.R., 1995. First geomagnetic-based, in situ produced cosmogenic isotope calibration program, GSA Abstract with Programs, 27, 6, p. A-59.

Clapp, E.M., Cassell, E.A., and Eisenman, K.G., 1994. A user friendly urban runoff model; a tool for managers and planners, GSA Abstracts with Programs, 26,7, p. A-102.

Bierman, P.R., Larsen, P., and Clapp, E.M., 1996. Refining estimates of ^{10}Be and ^{26}Al production rates, Radiocarbon, v. 38, p. 149-150.

Brown, A.B., Clapp, E.M., Gustina, G.W., Pelton, D.K., and Shabunia, H.L., 1995. Understanding phosphorus cycling, transport and storage in stream ecosystems as a basis for phosphorus mangement, NEGSA Abstracts with Programs, 57, p. 66.