

ERIK M. CLAPP

EDUCATION

University of Vermont, Ph.D., Geology, 2003
University of Vermont, M.S. Geology-Hydrology, 1994
University of Vermont, B.A. Geology, 1989

AFFILIATIONS

Environmental and Energy Technology Council of Maine, since 2007
Geological Society of America, since 1991
American Geophysical Union, since 1994
Maine Geological Society, since 2000

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

Dr. Clapp is a geologist with 19 years of experience in geologic investigations specializing in hydrogeology and geochemistry. Dr. Clapp has supervised and conducted national and international research projects for the U.S. Department of Defense and the U.S. Geological Survey in New England, Southwestern U.S., and the Middle East. Dr. Clapp has instructed university courses in Field Geology, Hydrogeology, Geomorphology, and Computer Simulation of Hydrogeologic Systems.

Since joining Sevee and Maher, Dr. Clapp has conducted numerous Phase-I and Phase-II environmental site assessments and has conducted investigations involving chemical characterization and isotopic tracing of groundwater source areas for Lockheed Martin, National Semiconductor, Fairchild Semiconductor, Bath Iron Works, Eaton Corporation, and many solid waste facilities throughout the Eastern United States. Dr. Clapp has designed and implemented the removal and offsite disposal of hazardous waste classified soils and TSCA classified soils. Dr. Clapp has also worked on projects locating, testing, evaluating, and permitting groundwater supplies for Nestle Waters North America Inc., New Jersey American Water Company, Ohio American Water Company, Jasper Wyman & Son, and Pineland Site Development.

Dr. Clapp has a passion for renewable energy technologies and is a member of the Programming Committee for the Environmental and Energy Technology Council of Maine.

PUBLICATIONS & PRESENTATIONS

Clapp, E.M., Bierman, P.R., and Caffee, M., 2002. Using ^{10}Be and ^{26}Al to determine sediment generation rates and identify sediment source areas in an arid region drainage basin: *Geomorphology*, 45, 89-104.

Clapp, E.M., Bierman, P.R., Pavich, M., and Caffee, M., 2001. Rates of sediment supply to arroyos from upland erosion determined using in situ-produced cosmogenic ^{10}Be and ^{26}Al , *Quaternary Research*, 55, 235-245.

Clapp, E.M., Bierman, P.R., Schick, A.P., Lekach, J., Enzel, Y., and Caffee, M., 2000. Sediment yield exceeds sediment production in arid region drainage basins, *Geology*, 28, 995-998.

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., 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.

Gellis, A.C., Pavich, M.J., Bierman, P.B., Clapp, E.M., Ellwein, A., and Aby, S., 2004. Modern sediment yield compared to geologic rates of sediment production in a semi-arid basin, New Mexico: Assessing the human impact, *Earth Surface Processes and Landforms*, 29, 1359-1372.

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.