

Karen Louise Jennings

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QUALIFICATIONS:

EDUCATION

M.S., Geology

University of Vermont, Burlington, VT 05405. 1998 – 2001

Specialties: Geomorphology, Hydrogeology

Thesis title: Depositional histories of Vermont alluvial fans.

Related Skills: Surficial geology mapping, stratigraphic analysis, soil classification, radiocarbon dating, examination of hillslope erosion (pre- and post-deforestation), land surveying with Total Station and GPS equipment, computerized drafting.

Advisor: Dr. Paul R. Bierman, (802) 656-4411

B.A., Geoscience

Franklin and Marshall College, Lancaster, PA 17604. 1992-1996

WORK EXPERIENCE

GEOMORPHOLOGIST
07/2005 – Present

Straughan Environmental Services, Inc., 9135 Guilford Rd, Columbia, MD 21046
Environmental Design Unit: Assessment of river stability; design of stream and wetland restoration projects; groundwater monitoring; sediment sampling for contamination; evaluation of fish migration barriers; post-mining landscape rehabilitation
Supervisor: Paul Dane, (301) 362-9200

HYDROLOGIST
08/2001 – 02/2004

Riverside Forest Fire Laboratory, Pacific Southwest Research Station, USDA Forest Service, 4955 Canyon Crest Drive, Riverside, CA 92507.
Prescribed Fire and Fire Effects Work Unit: Co-designed a project to determine the spatial and temporal effects of wildfire disturbance on headwater stream hydrology; implementation of projects to determine the erosional and hydrologic characteristics of treated and untreated burned hillslopes in small watersheds; assistance with the selection of field sites appropriate to study goals; assistance with collection of field data and ongoing monitoring of hillslope runoff and sediment production at burned forest sites.

GEOLOGIST-IN-THE-PARK
04/2003- 05/2004, part-time

Antietam National Battlefield, P.O.Box 158, Sharpsburg, MD 21782
Preliminary assessment of Antietam Creek for restoration or rehabilitation efforts; collection of baseline data on current stream scour including surveys of bank erosion and riparian buffers along the creek and its tributaries; Rosgen stream classification and delineation; analysis and interpretation of historic stream gage and flood data; quantification of runoff from high-use areas of the park; overview of watershed health; identification of potential remediation efforts.

GEOLOGIST II
02/2001 – 08/2001

Maryland Geological Survey, 2300 St. Paul Street, Baltimore, MD 21218.
Southern Maryland Patapsco Aquifer Project: Monitoring of drilling projects and aquifer (pumping and recovery) tests; collection and description of drill cutting mineralogical and sedimentologic characteristics; interpretation of aquifer characteristics using cutting descriptions and geophysical logs; compilation of tables and hydrographs from well network and project field data; maintenance of the Ground Water Information System (GWIS) database.

OAK RIDGE INTERN
01/1997 – 12/1997

U.S. Geological Survey, 215 Limekiln Road, New Cumberland, PA 17070.
Pennsylvania Bridge Scour Project: Surveys of bridge sites and documentation of site geomorphic and hydrologic characteristics in brief Department of Transportation reports, including any recommendations for stream channel remediation.

PROFESSIONAL MEMBERSHIPS: Geological Society of America; American Geophysical Union; Association of Women Geoscientists; International Association of Geomorphologists