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Education:

M.S. (2009) Geosciences (Hydrogeology), University of Massachusetts, Amherst, MA, USA

B.S. (2002) Geosciences, University of Massachusetts, Amherst, MA, USA

Professional Experience:

Hydrologist (2009-Present), U.S. Geological Survey, MD-DE-DC Water Science Center,
Baltimore, MD

Student Trainee in Hydrology (2008-2009), U.S. Geological Survey, MD-DE-DC Water Science
Center, Baltimore, MD

Student Trainee in Physical Science (2007-2008), U.S. Geological Survey, CT Water Science Center,
Harford, CT

Membership in Professional Societies:

American Geophysical Union

National Ground Water Association

Geological Society of America

Selected Publications and Reports:

Fleming, B.J., LaMotte, A.E., and Sekellick, A.J., 2013, Statistical classification of hydrogeologic regions in the fractured rock area of Maryland and parts of the District of Columbia, Virginia, West Virginia, Pennsylvania, and Delaware: U.S. Geological Survey Scientific Investigations Report 2013-5043, 14p.

Fleming, B.J., Hammond, P.A., Stranko, S.A., Duigon, M.T., and Kasraei, Saeid, 2012, A science plan for a comprehensive assessment of water supply in the region underlain by fractured rock in Maryland: U.S. Geological Survey Scientific Investigations Report 2012-5160, 29p.

Fleming, B.J., DeJong, B.D., and Phelan, D.J., 2011, Geology, hydrology, and water quality of the Little Blackwater River watershed, Dorchester County, Maryland, 2006-09: U.S. Geological Survey Scientific Investigations Report 2011-5054, 82 p.

Raffensperger, J.P., **Fleming, B.J.**, Banks, W.S.L., Horn, M.A., Nardi, M.R., and Andreasen, D.C., 2010, Simulation of groundwater flow to assess future withdrawals associated with Base Realignment and Closure (BRAC) at Fort George G. Meade, Maryland: U.S. Geological Survey Scientific Investigations Report 2010-5186, 48 p.

Fleming, B.J., 2009, Effects of anthropogenic stage fluctuations on surface water/ground water interactions along the Deerfield River, Massachusetts: Masters Thesis, Department of Geosciences, University of Massachusetts, Amherst, 98p.

Boutt, D.F., and **Fleming, B.J.**, 2009, Implications of anthropogenic river state fluctuations on mass transport in a valley fill aquifer. *Water Resources Research*, 45, W04427, doi:10.1029/2007WR006526

Mabee, S.B., **Fleming, B.J.**, and Boutt, D.F., 2007, Hydrogeologic investigation of the West Charlemont aquifer, Charlemont, Massachusetts, Office of the Massachusetts State Geologist Report.

Selected Abstracts:

Fleming, B.J., Archfield, S.A., 2012, Catchment classification and similarity using correlation in streamflow time series, Abstract H13A-1303 presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3-7 Dec.

Fleming, B.J., 2012, Impacts of Hurricane Irene and Tropical Storm Lee on groundwater recharge in the Eastern U.S., Abstract presented at the 2012 Maryland Groundwater Symposium, Baltimore MD, 27 Sep.

Fleming, B.J., Shapiro, A.M., 2011, Numerical simulation of down-hole hydraulic testing methods in multiple fractured-rock settings. Abstract presented at the 2011 National Ground Water Association Ground Water Summit, Baltimore, MD, 5 May.

Fleming, B.J., 2009, Hydrology of the Little Blackwater River Watershed, Dorchester County, Maryland, Invited Talk at the Chesapeake Marshlands National Wildlife Refuge Complex Sixth Annual Science Meeting, Abstract, p.6

Fleming, B.J., Boutt, D.F., 2007, Determining water fluxes across surface water/groundwater interfaces using temperature data and numerical models. *Eos Trans. AGU* 88(52), Fall Meet. Suppl., Abstract H13D-1547

Boutt, D.F., **Fleming, B.J.**, 2007, Mass transport between surface water and ground water: The influence of dispersive mixing. *Geological Society of America Abstracts with Programs*, Vol. 39, No. 6, p. 488

Fleming, B.J., Boutt, D.F., Mabee, S B., 2006, Implications of Diurnal River Fluctuations on Mass Transport in a Valley Fill Aquifer. *Geological Society of America Abstracts with Programs*, Vol. 38, No. 7, p. 468