

## CURRICULUM VITAE

### **Kathryn M. Ward**

#### ***Education***

M.S. in Geology, University of Kentucky, Lexington, Kentucky, 2009, GPA 3.75  
Thesis: Matrix Geochemistry and *Phytophthora* occurrence on reforested mine lands in Appalachia

B.A. in Geology, minor in Spanish, DePauw University, Greencastle, Indiana, 2005, GPA 3.32

#### ***Work Experience***

Lecturer, Department of Chemistry and Biochemistry, Angelo State University, Aug. 2010-present

Geologist I, Kentucky Division of Water, Wellhead Protection Program, Aug. 2009-Apr. 2010

Teaching Assistant, Dept. of Earth and Environmental Sciences, University of Kentucky, Aug 2006-Dec. 2008

Instructor, Camp High Trails Outdoor Science School, Fawnskin, California, 2005-2006

Salesperson, Trek Bicycle Store, Schererville, Indiana, summer 2005 and 2006

Teaching Assistant, Dept. of Geosciences, DePauw University, 2004-2005

#### ***Research Experience***

Dept. of Earth and Environmental Sciences/Dept. of Forestry, University of Kentucky. Matrix geochemistry and *Phytophthora* occurrence on reforested mine lands in Appalachia. Aug. 2006-Mar. 2009

Dept. of Biological Sciences and Biotechnology, Murdoch University, Western Australia. Pilot trials for detection of *Phytophthora cinnamomi* from mine spoil waters. Feb. 2008

Dept. of Biology, DePauw University. Field research at Cranberry Lake Biological Research Station, New York. Nest attributes of the polymorphic White-throated sparrow. Summer 2003

Dept. of Geosciences, DePauw University: Origin and geochemistry of carbonate vein-dyke complexes, Bancroft, Ontario. Summer 2004

### ***Awards and Honors***

Research Assistantship, University of Kentucky Dept. of Forestry, 2008

Scholarship, American Society of Mining and Reclamation, 2008

Graduate School International Travel Grant, University of Kentucky, 2008

Kerri Casner Environmental Sciences Fellowship, University of Kentucky, 2008

EPSCoR Grant, University of Kentucky Dept. of Civil Engineering, 2007-2008

Teaching Assistantship and Pirtle Research Fellowship, University of Kentucky Dept. of Earth and Environmental Sciences, 2006-2008

DePauw University Academic Scholarship, 2002-2005

DePauw University Dept. of Geosciences Annual Gault Award, 2003, 2004

### ***Professional Affiliations***

American Society of Mining and Reclamation

The American Chestnut Foundation

### ***Skills and certifications***

OSHA 40 Hour HAZWOPER Initial Training, Dec. 2009

Geologist in Training (Passing score on ASBOG Fundamentals of Geology) Oct. 2009

Proficient in Windows programs, WhAEM groundwater modeling, PHREEQC geochemical modeling, and ArcMap GIS 9.2

Proficient at field sampling and laboratory work in hydrogeology

Proficient in written and spoken Spanish

## ***Publications***

- \*Ward, K. M. Matrix Geochemistry and *Phytophthora* occurrence on reforested mine lands in Appalachia. M.S. Thesis. University of Kentucky, Lexington, KY. May 2008. 102 p.
- \*Adank, K.M., Barton, C.D. and Fryar, A.E. 2008. Selected water quality attribute analyses of infiltrated waters from reforested loose-graded spoils in eastern Kentucky. EPA/NGWA Abandoned Mind Lands conference, Denver, CO, Oct. 1-3, 2008.
- \*Adank, K.M., Barton, C.D., French, M.E. and de Sa, P.B. 2008. Occurrence of *Phytophthora* on reforested loose-graded spoils in eastern Kentucky. Paper was presented at the 2008 National Meeting of the American Society of Mining and Reclamation, Richmond, VA, *New Opportunities to Apply Our Science* June 14- 19, 2008. Barnhisel, R.I., (Ed.) ASMR, Lexington, KY.
- de Sá, P.B, Barton, C.D., Patel, R., \*Adank, K.M, Bateman, A., and Hartman, J. 2007. Early Detection Survey for *Phytophthora ramorum* in Kentucky in 2007. University of Kentucky Agriculture Extension Report.
- French, M. E., Barton, C. D., Graves, D., Hebard, F.V., Fei, S. and \*Adank, K. 2007. Can surface mine reclamation help to restore American Chestnut? *Reclamation Matters*, 4(2), 24-28.
- Mills, James G. Jr., \*Adank, Kathryn M. and Myrvold, Christopher R. 2003. Calcite vein-dyke complexes in the Bancroft, Ontario region: evidence for a 930 Ma carbonatitic intrusive event in the Grenville province, Ontario. GSA Annual Meeting, Seattle, WA, Nov. 2-5, 2003.

## ***Invited Talks***

- Kentucky Water and Wastewater Operators Association Conference. Wellhead Protection Plans for Kentucky's Groundwater. Louisville, KY. Apr. 2010.
- Kentucky Department of Environmental and Public Protection Cabinet Leadership Development Series. Matrix geochemistry and *Phytophthora* occurrence on reforested mine lands in Appalachia. Frankfort, KY. Oct. 2009.
- Kentucky Chapter of the American Planning Association Fall Conference. Kentucky's Wellhead Protection Program 5 Step Approach. Bowling Green, KY. Oct. 2009.
- Northwood University, Environmental Science class. Mine restoration approaches in Australia and Appalachia. Georgetown, KY. June 2009.
- DePauw University, Department of Geosciences weekly lecture series. Research experience and current issues in mine reclamation. Greencastle, IN. Apr. 2009.

EPA/NGWA Abandoned Mine Lands Conference. Selected water quality attribute analyses of infiltrated waters from reforested loose-graded mine spoils in Eastern Kentucky. Denver, CO. Oct. 2008.

American Society of Mining and Reclamation annual meeting. Occurrence of *Phytophthora* on reforested loose-graded spoils in eastern Kentucky. Richmond, VA. June 2008.

University of Kentucky Rast-Holbrook weekly lecture series. Mine restoration and *P. cinnamomi* in Western Australia. Lexington, KY. Apr. 2008.

Murdoch University Plant Pathology research group weekly lecture series. The Forestry Reclamation Approach in Appalachia and the American Chestnut. Murdoch, Western Australia. Feb. 2008.

University of Kentucky Rast-Holbrook weekly lecture series. *Phytophthora* and mine reforestation in Appalachia. Lexington, KY. Oct. 2007.