

## BLAKE KETCHUM

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Blake@SculptureLaboratory.com

## EMPLOYMENT

2006-present. Online course design and instruction. Department of Crop and Soil Sciences.  
Penn State University, University Park PA.

2009-present. Online course design and instruction. School of Visual Arts and eLearning  
Institute, Penn State University. University Park, PA.

2006-present. Research Associate, Center for Environmental Informatics. Penn State  
University, University Park, PA

2005-2006. Research and Education Coordinator. Center for Environmental Kinetic Analysis.  
Penn State University, University Park, PA.

## EDUCATION

- Ph.D. Soil Science. Washington State University. Pullman, WA. May, 2005.
- Certificate in Environmental Biogeochemistry. Washington State University. Pullman, WA. May, 2005.
- M.S. Forestry. Michigan Technological University. Houghton, MI. May, 2001.
- B.F.A. Sculpture. University of Michigan. Ann Arbor, MI. April, 1988.

## ENVIRONMENTAL SCIENCE SKILLS

Soil science, forest science, wetland ecology, protozoon ecology, watershed dynamics,  
biogeochemistry, mycology and bryology.

## IT KNOWLEDGE SET

GUI interface design, Flash, Flex, XHTML, Action Script 3, CSS, Illustrator and Photoshop,  
Dreamweaver, Access, PowerPoint, Excel, Word.

## FORENSIC SCIENCE AND FINE ART SKILLS

Portrait sculpture, forensic facial reconstruction, exhibit design.

## PRESENTATIONS AND PUBLICATIONS

Presentation. *A Digital Introductory Soils Course for the Virtual Classroom*. Co-authored with  
Gary Petersen, Chuck Walker, and Akbar Khouzani. International meetings of the Soil  
Science Society of America. Pittsburgh, PA. 2009.

Publication. *The Mid-Atlantic Watershed Atlas (MAWA): Open Access Data Search & Watershed-based Community Building*. Co-Authored with Patrick Reed, Brian Bills, Michael Anderson. Environmental Modelling and Software. *In review*.

Presentation. *Spatial variability of pedogenic reaction rates in a podzolized soil*. Co-authored with Alan Busacca 18<sup>th</sup> World Congress of Soil Science. Philadelphia, PA. 2006.

Publication. *Center for Environmental Kinetic Analysis: Geochemists spanning scales of space and time*. The Geochemical News, January 2006.

Presentation. *A new approach to Soilscape quantification*. 98th Annual Meeting of the ASA, CSSA, and SSSA. Salt Lake City, Utah. 2004.

Presentation. *Mass fluxes in a 0<sup>th</sup> order watershed*. Washington State University. April 2005.

Presentation. *Geospatial modeling of soil mass fluxes and soil carbon storage of a forested watershed in the Upper Peninsula of Michigan, USA*. 96th Annual Meeting of the ASA, CSSA, and SSSA. Seattle, WA. 2004.

Book Review. *Soil Classification: A Global Desk Reference*. Vadose Zone Journal 2003. V2, p768.

Presentation. *Energy, Power, Intensity: a new quantitative approach to pedogenic processes*. University of Idaho Pedology Group. Moscow, Idaho. 2003.

Presentation. *Soils and Energy*. Isotope Geochemistry Work Group. University of California, Santa Barbara. Santa Barbara, CA. March 2003.

Poster. *A Practical Energy Balance for Pedogenesis*. Fall AGU Conference. San Francisco, CA. December, 2002.

## MEDIA

Forensic Sculpture. Manchester method. <http://www.forensicsculpture.com>. 2009 – present.

Invited Solo Exhibition. Schlow Public Library, State College, PA. <http://www.portraitbust.com>. May 2009.

Watercolors, digitally modified. Maps and lettering for the film *No4. Street of our Lady*. <http://streetofourlady.org>. Producers Judy Maltz and Richie Sherman 2009.

Web Design. Central Pennsylvania Fencing Association (awaiting content from client). [www.blakeketchum.com/cpfa/index.html](http://www.blakeketchum.com/cpfa/index.html) . 2008.

Web Design. Mid Atlantic Watershed Atlas. <http://ceiwin3.cei.psu.edu/weborb30/myapps/mawa/> . 2008.

Sculpture. Ancestor. Gypsum. Pine Grove Mills, PA. 2008. Shown at Schlow Public Library Fall 2008.

Sculpture. Richie. Portrait bust. Pine Grove Mills, PA. 2008. Shown at Annual Juried Figurative Exhibition, Arts Alliance of Central PA, Lemont, PA Summer 2008.

Sculpture. Bee Keeper. Bust. Pine Grove Mills, PA. 2008. Shown in the Robeson Gallery. Spring State College, PA 2008.

Sculpture. Jacob. Portrait bust of 9-year-old boy. Pine Grove Mills, PA. 2007. Shown at the Art Alliance of Central PA. Instructors Show, Lemont PA Fall 2007.

Sculpture. Umberto. Portrait bust of 8-year-old boy. Pine Grove Mills, PA. 2007. 2007. Shown at the Art Alliance of Central PA. Instructors Show, Fall 2007.

Sculpture. "Special Olympian," 8 meter tall statue of Special Olympian. Special Olympics Opening Ceremonies, Yale University, New Haven, CT. 1995.

Interpretive exhibit. Tall-grass prairies, Kalamazoo Nature Center, "Nature up Close." Kalamazoo, MI. 1995-1996.

Sculpture. "Ezra Cornell." Full-scale replica of a statue on the campus of Cornell University. Cornell Alumni Federation, The Cornell Fund. Ithaca, NY. 1994.

Interpretive exhibit. Soil structure and soil biology. Farm Park, "The Great Tomato Works." Kirtland, OH. 1993.

Sculptures. "Muses of Yale," five 5 meter tall statues representing academic disciplines. Association of Yale Alumni, "...and for Yale" campaign. New Haven, CT. 1991.

Sculpture. Joey the Wolfhound. Commissioned by the VP of the Irish Wolfhound Club of America. Lakewood, OH. 1993.

Sculpture. Matthew. Commissioned portrait of 5-year-old boy. Cuyahoga Heights, OH. 1992.

Sculpture. Catherine. Commissioned portrait of 5-year-old girl. Lakewood, OH. 1991.

Sculpture. "Minotaur," School of Business Administration, University of Michigan, Ann Arbor, MI. 1991.

## REFERENCES

Available upon request.