

Curriculum Vita - 2009

Michael S. Hofmockel

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a. Professional Preparation

1996 B.F.A., Pennsylvania State University

b. Professional Appointments

Consultant, Independent Drupal Developer (2005-present)

- Open-source consultant. Expert at design/deploying engaging websites using open-source tools like Drupal.

Senior Software Engineer, iMed Studios. (2008-present).

- Senior Drupal Developer for iMed Studios (<http://www.imedstudios.com>). iMed Studios is a pioneer in the development of digital communications solutions – from Tablet PC applications to interactive video iWalls, mobile applications, Wii games, and web sites.

Co-Founder and Partner, Switchback, a CMS-driven web development and design firm. (2007-2008).

- Drupal lead for Switchback (<http://www.switchbackcms.com>). Based in Ann Arbor, Michigan, Switchback provides smaller- to medium-sized organizations with the ability to update and maintain their own websites.

Associate in Research, Pennsylvania State University, Earth and Environmental Systems Institute, Center for Environmental Informatics. (2006-2008).

- Senior developer of cyber-infrastructure for the Critical Zone Exploration Network (CZEN) website (<http://www.czen.org>). CZEN is a NSF-EAR sponsored network of people, sites, tools and ideas to investigate the processes within the Critical Zone.

Associate in Research, Duke University, Nicholas School of the Environment and Earth Sciences: The Forest, Soil and Water Lab (1997- 2005)

- Senior Developer and Associate Director of the Long-Term Soil Experiment (LTSE) website, a metadata-base and portal of LTSEs and their data holders (<http://ltse.env.duke.edu>).
- Database Architect and Data Manager of The Calhoun Experimental Forest. The database combines a multitude of data types across space and time. Methods of data entry, verification and exploration are integrated into the application. (<http://calhoun.env.duke.edu>)
- Senior Systems Administrator of The Forest, Soil and Water Lab and The Environmental Chemistry Lab. Responsible for the following services: Web servers, Domain Controller, File Server, Database server, Terminal server (Remote Desktop), Graphics work stations and maintained over 30 client PCs.
- Project Manager of soil research at the Free Air Carbon Enrichment (FACE) site, the Southeast Tree Research and Education Site (SETREs) and the Calhoun Experimental Forest.
- Graphic Artist/Editor, Photographer and Conceptual Illustrator for the book “Understanding Soil Change: Soil Sustainability over Millennia, Centuries, and Decades” by Daniel D. Richter Jr. and Daniel Markewitz. I created over 100 graphs, conceptual drawings and photographs, including the cover art.

Interim System Administrator, Duke University, Nicholas School of the Environment and Earth Sciences (2000-2001)

- Interim System Administrator from December 2000 until June 2001 while the school searched for a new senior systems administrator. The school has over 300 students and faculty with a mixed Linux/Windows environment, four computer labs and a cutting edge GIS facility. I was instrumental in the successful search for a permanent System Administrator.

Laboratory Technician, Smithsonian Environmental Research Center: Nutrient Lab (1996-1997)

- Nutrient cycling of 12 constructed wetlands adjacent to the Chesapeake Bay.

c. Publications

Peer-Reviewed

- **Hofmockel, M.**, D. Richter, D. Miller, and S. Brantley (2007), Building critical zone research cyberinfrastructure, *Eos Trans. AGU*, 88(50), 560.
- Oh, N-H., **Hofmockel, M.**, Lavine, M., Richter, D. 2007. Did elevated atmospheric CO₂ alter soil mineral weathering?: an analysis of 5-year soil water chemistry data at Duke FACE study. *Global Change Biology* (2007) 13: 2626–2641
- Richter, D.D., **Hofmockel, M.**, Callaham, M., Powlson, D. Smith, P. 2007. Long-Term Soil Experiments: Keys to Managing Earth's Rapidly Changing Ecosystems. *SSSAJ* 71: 259-265
- Callaham Jr., M.A., Richter, D.D., Coleman, D.C., **Hofmockel, M.** 2006. Long-term land-use effects on soil invertebrate communities in Southern Piedmont soils, USA. *European Journal of Soil Biology*.
- Krishnaswamy, J., Halpin, P. N., Richter, D.D., **Hofmockel, M.** 2001. Spatial patterns of suspended sediment yields in a humid tropical watershed. *Hydrological Processes* 15:2237-2257.

Posters

- **Hofmockel, M.**, Brantley, S., Miller, D., Richter, D.D. 2007. The Critical Zone Exploration network: Your growing community. *Geoinformatics Conference 2007*, San Diego, California May 17-18.
- Miller, D., Brantley, S., Richter, D.D., **Hofmockel, M.** 2006. Building a Cyberinfrastructure for the Critical Zone Exploration Network. *Geoinformatics Conference 2006*, Reston Virginia May 10-12.
- Richter, D.D., Callaham, M., Smith, P., **Hofmockel, M.**, Powlson, D. 2006. Improving the Science of Soil Change by Networking Long-Term Soil-Ecosystem Experiments (LTSEs). *SSSA Conference Poster*, Indianapolis, Indiana
- Callaham, M.A., Richter, D.D., **Hofmockel, M.** 2005. Long-term land use effects on soil invertebrate communities in Southern Piedmont soils. *Ecological Society of America annual meeting*, 8-11 August, Montréal, Canada. Poster.
- Richter, D. D., **Hofmockel, M.** and Markewitz, D. 2000. Five Tales from the Calhoun and a Proposal for a Network of Soil-Ecosystem Experiments. *LTSE Conference Poster*.
- Richter, D. D., Heine, P., **Hofmockel, M.**, Johnsen, K., Markewitz, D., Raikes, J. and Tian, K. 1999. Satisfying a Forest's Four-Decade Nitrogen Demand: The Case for Long-term Soil-Ecosystem Experiments. *SSSA 1999 Conference Poster*, Salt Lake City, Utah.

Illustrations/Photographs

- *The Rhizosphere: An Ecological Perspective* by Zoe G. Cardon and Julie Lynn Whitbeck (Hardcover - Mar 29, 2007) . Created 3D graph, p.189
- Richter, D.D. and D. Markewitz. 2001. *Understanding Soil Change*. Cambridge University Press, Cambridge UK. Created over 100 graphs, conceptual drawings and photographs, including the cover art.
- Levine, M.A., Whalen, S.C., 2001. Nutrient limitation of phytoplankton production in Alaskan Arctic foothill lakes. *Hydrobiologia*, Volume 455, Issue 1-3. Contributed graphic art, including the cover art.

d. Synergistic Activities

1. Leader of the Iowa Drupal Users Group. A group dedicated to sharing knowledge related to web development using Drupal. <http://groups.drupal.org/iowa> (2008-present)
2. Founder and Leader of the Ann Arbor Drupal Users Group. A group dedicated to sharing knowledge related to web development using Drupal. <http://groups.drupal.org/ann-arbor> (2006-2008)
3. WATER and Environment Research Systems Network, Community Workshop (27-28 February, 2008)
4. Co-Coordinator of the LTSE international Global Soil Change Workshop 07, Durham NC. Duke U. (10-14 December 2007)
5. Goldschmidt 2007 - "Atoms to Planets", premier annual international meeting in geochemistry. Live demonstration of CZEN.org (19-24 August 2007)
6. GeoInformatics 2007 - "Data to Knowledge", technologies as they relate to developing the cyberinfrastructure for the geosciences. San Diego, California (17-18 May 2007)