

## JENNIFER L. MACALADY

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### EDUCATION AND APPOINTMENTS

1991 B.A. Geology, Carleton College  
1998 M.S. Soil Science, UC Davis  
2000 Ph.D. Soil Science, UC Davis  
2001-2002 University of Wisconsin-Madison, Postdoctoral Research Associate  
2002 University of California-Berkeley, Visiting Postdoctoral Researcher  
2002-2004 Carleton College, Visiting Assistant Professor  
2004- Pennsylvania State University, Assistant Professor of Geosciences

### AWARDS

EPA STAR Graduate Fellow (1998-2000)  
Jastro-Shields Fellow (1998 and 1999)  
Lawrence McKinley Gould Prize in Natural Science (1991)  
Duncan Stewart Fellow (1990)  
Richter Fellow (1990)

### COURSES TAUGHT

Geosc 417 –Geomicrobiology  
Geosc 597 –Microbial Biogeochemistry  
Geosc 021 –Origin and Evolution of Earth and Life

### PUBLICATIONS (out of 15)

- Macalady, J. L.**, D. S. Jones and E. H. Lyon. 2007. Extremely acidic, pendulous microbial biofilms from the Frasassi cave system, Italy. *Environmental Microbiology* 9(6): 1402-1414.
- Ewing, S. A., Michalski, G., Thiemens, M. H., Quinn, R. C. , **Macalady, J. L.**, Kohl, S., Wankel, S. D. , Kendall, C., McKay, C. P., and Amundson, R. 2007. The Rainfall Limit of the Nitrogen Cycle on Earth. *Global Biogeochemical Cycles*, doi:10.1029/2006GB002734.
- Macalady, J. L.**, E. H. Lyon, B. Koffman, L. K. Albertson, K. Meyer, S. Galdenzi and S. Mariani. 2006. Dominant microbial populations in limestone-corroding stream biofilms, Frasassi cave system, Italy. *Applied and Environmental Microbiology* 72 (8): 5596-5609.
- Macalady, J. L.**, M. M. Vestling, D. Baumler, N. Boekelheide, C.W. Kaspar, and J. F. Banfield. 2004. Membrane monolayers in *Ferroplasma* spp.: a key to survival in acid. *Extremophiles* 8(5):411-419.
- Macalady, J. L.**, and J. F. Banfield. 2003. Molecular geomicrobiology: genes and geochemical cycling [invited *Frontiers review*]. *Earth and Planetary Science Letters* 209 (1-2): 1-17.
- Macalady, J. L.**, A. M. S. McMillan, A. F. Dickens, S. C. Tyler and K. M. Scow. 2002. Population dynamics of Type I and II methanotrophic bacteria in rice soils. *Environmental Microbiology* 4(3):148-157.
- Macalady, J. L.**, E.E. Mack, D.C. Nelson and K.M. Scow. 2000. Sediment microbial community structure and mercury methylation in mercury-polluted Clear Lake, CA. *Applied and Environmental Microbiology* 66 (4):1479-1488.