

BIOGRAPHICAL SKETCH
KATHLEEN ANN LOHSE

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PROFESSIONAL PREPARATION

Cornell University, Biology, B.A., 1993
Cornell University, Urban and Regional Studies, B.S., 1993
University of California, Berkeley, Soil Science, Ph.D., 2002
University of California, Berkeley, Landscape Ecology, 2002-2004
University of California, Berkeley, Watershed Biogeochemistry, 2005
Arizona State University, Stream and Riparian Biogeochemistry, 2006

APPOINTMENTS

2007- present, Assistant Professor, School of Natural Resources, University of Arizona;
2005-2006, Postdoctoral Research Associate, Arizona State University; 2002-2004, EPA Star
Postdoctoral Fellow, University of California, Berkeley; 1995-2002, Graduate Student
Researcher, University of California, Berkeley, (Stanford University 1998-2002); 1994-1995,
Research Technician, Cornell University; 1993-1994, Research Technician, Michigan State
University; 1992, REU Summer Field Assistant, Stanford University.

PUBLICATIONS (FIVE MOST RELEVANT)

Lohse, K. A., and W. E. Dietrich. 2005. Contrasting effects of soil development on hydrological
properties and flow paths. *Water Resources Research*. 41: W12419,
doi:10.1029/2004WR003403.

Lohse, K.A. and P.A. Matson. 2005. Consequences of nitrogen additions for soil processes and
solution losses from wet tropical forests. *Ecological Applications*.15: 1629-1648.

Lohse, K.A., P.D. Brooks, J. McIntosh, T. Meixner, and T. Huxman. 2009. Interactions of
Biogeochemistry and Hydrologic Systems. *Annual Review of Environment and
Resources 34: in press (see Reviews in Advance on-line)*

Lohse, K.A., D. A. Newburn, J.J. Opperman, and A. M. Merenlender. 2008. Forecasting the
relative impacts of land use on fine sediment in anadromous fish habitat to guide
development and conservation programs. *Ecological Applications 18(2): 467-482*

Lohse, K.A., D. Nullet, and P.M. Vitousek. 1995. The effects of an extreme drought on the
vegetation of a single lava flow on Mauna Loa, Hawaii. *Pacific Science 49:212-220.*

OTHER SIGNIFICANT PUBLICATIONS

Matson, P.A., K.A. Lohse, and S.J. Hall. 2002. The globalization of nitrogen: consequences for
terrestrial ecosystems. *Ambio*.3:113-119.

Opperman, J., K. Lohse, A. Merenlender, M. Kelly, and C. Brooks. 2005. Influence of
watershed-scale land use on fine sediment in salmonid spawning gravels within the
Russian River basin, California. *Canadian Journal of Fisheries and Aquatic Sciences*.
62:2740-2751, doi:10.1139/F05-187.

Landridge, R., Christian-Smith, J., and K. Lohse. 2006. Access and Resilience: Analyzing the

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Construction of Social Resilience to the Stress of Water Scarcity in a Mediterranean-Climate Region. *Ecology and Society*. 11(2): 18. [online] URL:

<http://www.ecologyandsociety.org/vol11/iss2/art18/>

Lohse, K.A., D. Hope, R.A. Sponseller, J.O. Allen, N.B. Grimm. 2008. Atmospheric deposition of nutrients and carbon across an arid metropolitan area. *Science of the Total Environment* 402: 95-105.

Sanderman, J., K.A. Lohse, J. Baldock, R. Amundson. *In review*. Linking soils and streams: Sources and chemistry of dissolved organic carbon in a Mediterranean catchment. *Water Resources Research*

SYNERGISTIC ACTIVITIES (RECENT/CURRENT)

Panel participant: N2001 conference, Woods Hole, MA;

NSF Panelist: IGERT, June 2007, Ecosystem Science Panel, Oct 2007, Panelist, Water and Energy Forum, Oct 2007, EPA Panelist, Sept 2008

Participant: Nitrate Stable Isotopes Workshop, USGS, Menlo Park 2002, CA; Stable Isotope Course and Laboratory, University of Utah 1997, RHESSys- 1 Day Modeling Course, *San Diego State University*, 2003; Biosphere Hillslope Design, 2007, CZO activities (UA)

Organizer: Central Arizona Phoenix All Scientist Meeting and Symposium (Jan 2006),

Presider: Ecological Society of America; *Student Poster Judge*: ESA 2006, 2007, ISPE Fest 2007, AGU 2006, 2007; EDDA 2008, *Convener*: AGU Symposium: Controls on Geochemical and Biogeochemical Processes in the Critical Zone);

SNR service: Futures Task Force, Junior Faculty Representative on Self Study of SNR for Review

Reviewer: *Biogeochemistry*, *Ecological Applications*, *Oecologia*, *Biotropica*, *Ecosystems*, *CRC Press*, *Soil Biology and Fertility*;

Member: American Geological Union, 1999-present, Ecological Society of America, 1995-present

COLLABORATORS & OTHER AFFILIATIONS

Collaborators and Co-Editors: J. O. Allen, ASU, R. Amundson, UC Berkeley, J. Baldock, CRISO, P.D. Brooks, U of Arizona, C. Brooks, U of Michigan, J. Christian-Smith, UC Berkeley, W.E. Dietrich, D. Goodrich, USDA-ARS, N. B. Grimm, ASU, S. Hall, ASU, H. Hartnett, ASU, D. Hope, ASU, T. Huxman, UA, M. Kelly, UC Berkeley, P. A. Matson, Stanford University, A.M. Merenlender, UC Berkeley, T. Meixner, J. McIntosh, U of Arizona, James Leenhouts, USGS, J. Opperman, TNC, D. Newburn, UC Berkeley, J. Sanderman, UCSC, R. Sponseller, University of Alabama, UC Berkeley, P. Vitousek, Stanford University.

GRADUATE AND POSTDOCTORAL SUPERVISION

Graduate Advisor(s): P.A. Matson, Stanford University and R. Amundson, UC Berkeley.

Postdoctoral Advisors: A. Merenlender, UC Berkeley, N.B. Grimm, ASU

GRADUATE AND UNDERGRADUATE STUDENTS (5 GRADUATE, 3 UNDERGRADUATE TOTAL)

Thesis Advisor: Margaret Snyder (M.S. candidate), Rebecca Lloyd (M.S./Ph.D. candidate), Erika Gallo (PhD candidate, co-advisor, Paul Brooks main advisor), Mark Carlson (M.S. candidate), Bryan Moravec (Ph.D. candidate, FA 2008), Daniel Wisheropp (REU undergraduate), Allison Peterson (undergraduate), Claressa Martinez (undergraduate)