

BIOGRAPHICAL SKETCH
NANCY B. GRIMM

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PROFESSIONAL PREPARATION

Hampshire College, Amherst, MA, Ecology, B.A., 1978
Arizona State University, Tempe, Zoology, M.S., 1980
Arizona State University, Tempe, Zoology, Ph.D., 1985

APPOINTMENTS

1999–present, Professor of Ecology, Evolution and Environmental Science; 1997–1999, Associate Professor of Biology; 1994–1997, Associate Research Scientist; 1990–1994, Assistant Research Scientist; 1985–1990, Faculty Research Associate—all at ASU. 2005–present, Adjunct Professor of Biology—University of New Mexico.

PUBLICATIONS (FIVE MOST RELEVANT)

Belnap, J., J. Welter, N.B. Grimm, N. Barger, and J. Ludwig. 2005. Linkages between microbial and hydrologic processes in arid and semi-arid watersheds. *Ecology* 86:298–307

Grimm, N.B., S. E. Gergel, W.H. McDowell, E.W. Boyer, C.L. Dent, P.M. Groffman, S.C. Hart, J.W. Harvey, C.A. Johnston, E. Mayorga, M. McClain, and G. Pinay. 2003. Merging aquatic and terrestrial perspectives of nutrient biogeochemistry. *Oecologia* 442: 485–501.

Schade, J.D., E. Martí, J.R. Welter, S.G. Fisher, and N.B. Grimm. 2002. Sources of N to the riparian zone of a desert stream: Implications for riparian vegetation and N retention. *Ecosystems* 5:68–79.

Schade, J.D., J.R. Welter, E. Martí, and N.B. Grimm. 2005. Hydrological exchange and N retention in an arid-land riparian ecosystem. *J. North American Benthological Society* 24:19–28.

Welter, J.W., S.G. Fisher, and N.B. Grimm. 2005. Nitrogen transport and retention in an arid land watershed: influence of storm characteristics on terrestrial-aquatic linkages. *Biogeochemistry*: 76:421–440.

OTHER SIGNIFICANT PUBLICATIONS

Grimm, N.B., R.W. Sheibley, C. Crenshaw, C.N. Dahm, W.J. Roach, and L. Zeglin. 2005. Nutrient retention and transformation in urban streams. *J. North American Benthological Society* 24:626–642.

Jenerette, G.D., J. Wu, N.B. Grimm, and D. Hope. 2006. Points, patches and regions: Scaling soil biogeochemical patterns in an urbanized arid ecosystem. *Global Change Biology*: in press.

Lewis, D.B., J.D. Schade, A.K. Huth, and N.B. Grimm. 2006. The spatial structure of variability in a semi-arid, fluvial ecosystem. *Ecosystems* 9:386–397.

McClain, M., E. Boyer, C. Dent, S. Gergel, N. Grimm, P. Groffman, S. Hart, J. Harvey, C. Johnston, E. Mayorga, W. McDowell, and G. Pinay. 2003. Biogeochemical hot spots and hot moments at the interface of terrestrial and aquatic ecosystems. *Ecosystems* 6:301–312.

Zhu, W., D. Hope, C. Gries, and N.B. Grimm. 2006. Soil characteristics and the storage of inorganic nitrogen under different land uses in an arid urban ecosystem. *Ecosystems*: in press.

PROFESSIONAL ACTIVITIES (RECENT/CURRENT)

Editorial Boards and Review Panels: *Ecology Letters* (2001–02), *Ecosystems* (1997–06), STC NSF (2000); LTER NSF (1998). Service to Scientific Societies: Ecological Society of America President-elect (2004–05), President (2005–06), Research Needs Committee (Member, 1993–04); North American

Benthological Society President (1999–00), Elections & Place Committee (Chair, 2000–01). Other Service Activities: Council of Scientific Society Presidents: Governing Board member-at-large, elected (2006); National Center for Ecological Analysis & Synthesis (NCEAS): Science Advisory Board (member, 1997–00; Chair, 1999–00); Consortium of Universities for the Advancement of Hydrological Science, Inc.: ASU representative, committee member, Hydrologic Synthesis Center; LTER Network Executive Committee member (2001–2004).

SYNERGISTIC ACTIVITIES (RECENT/CURRENT)

PI/PD, Central Arizona–Phoenix LTER (1997–present); Co-PI, IGERT in Urban Ecology at ASU (teach required IGERT course, supervise graduate fellows, teach in collaborative workshop)(2000–present); Sr Personnel, LINX Project and LINX-2 (8-site collaborative project funded by NSF IRCEB, synthesis activities funded by LTER network); Mentor and Faculty Participant, Strategies for Ecology Education, Development, and Sustainability (SEEDS) (Ecological Society of America); Organizer, Summer REU Program at ASU (ca. 50 students, 16% underrepresented minorities and 58% women; 1990–2000); Director, Undergraduate Mentorship in Environmental Biology (UMEB) Program at ASU (24 students, 58% underrepresented minorities and 83% women; 1994–98); Member, Conference Committee, Long-Term Ecological Research Network Planning (2006); Workshop Organizer, ESA Themed Meeting, Merida, Mexico (2006); International Conference Co-Chair, Hangzhou, China, (2005); Special Session Organizer, ESA Meeting, Memphis, TN (2006).

GRADUATE AND POSTDOCTORAL SUPERVISION

Thesis Advisor and Postgraduate Scholar Sponsor: Sandra M. Clinton (M.S. 1996), C. Lisa Dent (Ph.D. 1999), Jennifer W. Edmonds (Ph.D. 2004), Aisha M. Goettl (M.S. 2001), Matthew A. Luck (M.S. 2001), W. John Roach (Ph.D. 2005), Elisabeth K. Larson (Ph.D. student), Tamara K. Harms (M.S. 2004; Ph.D. Student), John Jung (M.N.S. 2005). *Post-doctoral scholars supervised:* Tom L. Dudley (1989–1991), Christopher G. Peterson (1989–1991), H. Maurice Valett (1991), Andres Millan (1991–1992), Josefa Velasco (1991–1992), Rosa Gómez (1995), Eugènia Martí (1995–1997), Diane Hope (1997–1998), Mark Hostetler (1998–1999), Kimberly Knowles-Yanez (1998–1999), Markus Naegeli (1998–1999), Nancy McIntire (1998–2000); Weixing Zhu (1999–2000), Russell Watkins (1999), Amy Nelson (1999–2002), Madhusudan Katti (2000–2003), Eyal Shochat (2000–2002), David Lewis (2000–2003), John Schade (2000–2003), Susanne Grossman-Clarke (2000–2004), Sarah Gergel (at NCEAS; 2000–2003), Richard Sheibley (2002–2003), David Casagrande (2003–2005), William Cook (2003–2005), Kathleen Lohse (2005–present), Ryan Sponseller (2006–present).

COLLABORATORS & OTHER AFFILIATIONS (48 MO)

Collaborators: Baker, LJ, U of MN; Barger, N, CSU; Belnap, J, USGS; Bowden, WB, UVT; Boyer, EW, Syracuse; Brooks, P, U of AZ; Carpenter, S, U of WI; Chan, A, unknown; Collins, S, U of NM; Conklin, M, U of AZ; Crenshaw, C, U of NM; Dahm, CN, U of NM; Dodds, WK, Kansas State; Findlay, S, Inst Ecos Studies (IES); Gergel, SE, NCEAS; Gosz, J, U NM; Gregory, SV, Oregon State; Groffman, PM, PM, Inst Ecos Studies (IES); Hamilton, SK, Mich State; Hart, SC, NAU; Harvey, JW, USGS; Huth, AK, U of AZ; Jenerette, JD, U of AZ; Johnson, SL, Oregon State; Johnston, CA, U of S Dakota; Kaye, JP, Penn State; Kemp, P, U San Diego; Lewis, D*, D, Penn State; Ludwig, J, CSIRO; Martí, E, U of Blanes, Spain; Mayorga, E, U of WA; McClain, ME, FL Internation; McDowell, WH, U of NH; Merriam, J, U of NH; Meyer, JL, U of GA; Mulholland, PJ, ORNL; Oleson, J, unknown; Peterson, BJ, Ecos Center, MBL; Pinay, G, CNRS, Montpellier, France; Pouyat, R, USDA Forest Service; Reynolds, J, Duke U; Sanzone, DM, US Park Service, AK; Seastedt, T, U of Colorado; Shen, W, S China Botanical Garden; Tank, JL, Notre Dame; Thomas, SA, VA Tech; Webster, JR, VA Tech; Welter, J, St Catherine's; Wollheim, WM, U of NH; Zeglin, L, U of NM

Graduate Advisor: W L Minckley, deceased *Post-doctoral Advisor:* Stuart G Fisher