

Dr. Camille McNeely
Associate Professor
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Education

University of Texas, Austin, B.S., Zoology, High Honors and Departmental Honors, 1995.
University of California, Berkeley. Ph.D., Integrative Biology, 2004. Dissertation title: Herbivore Responses to Stream Size Gradients in a Northern California Watershed.

Appointments

2012 – 2013 Associate Professor, Dept. of Biology, Eastern Washington University.
2007- 2012 Assistant Professor, Dept. of Biology, Eastern Washington University.
2005-2006 Postdoctoral Associate, University of Minnesota, St. Anthony Falls Laboratory.
2003-2004 Graduate Student Researcher. University of California, Berkeley.
1999-2003 Graduate Student Instructor. Department of Integrative Biology, University of California, Berkeley.
1995-1996 Staff Scientist II. Philadelphia Academy of Natural Sciences.

Grants

2014 Eastern Washington University Faculty Research and Creative Works Grant, \$9,700.
2012 Contract with Water Quality Associates, \$30,000. “Macroinvertebrate Bioassessment and Secondary Production in the Upper Wenatchee Watershed.”
2011 State of Washington Water Research Grant, USGS 104b program, \$30,000. “Ecohydrology of Invasive Reed Canary Grass (*Phalaris arundinacea*) in Eastern Washington”.
2008 Eastern Washington University Faculty Research and Creative Works Grant, \$10,000.
2000-2003 C. McNeely and M.E. Power. National Science Foundation Dissertation Improvement Grant, \$10,000. “Role of a dominant grazing insect in a headwater stream food web”.

Publications

Hood, J.M., C. McNeely, J.C. Finlay, and R.W. Sterner. Selective feeding determines nutrient release by stream invertebrates. In Review at Freshwater Science.
Schade, J.D., K. MacNeill, S.A. Thomas, C. McNeely, J.R. Welter, J. Hood, M. Goodrich, M.E. Power, and J.C. Finlay. 2011. The stoichiometry of nitrogen and phosphorous spiraling in heterotrophic and autotrophic streams. *Freshwater Biology* 56: 424-436.
Finlay, J. C., R.R. Doucett, and C. McNeely. 2010. Tracing energy flow in stream food webs using stable isotopes of hydrogen. *Freshwater Biology* 55: 941-951.
McNeely, C. and M.E. Power. 2007. Spatial variation in caddisfly grazing regimes within a northern California watershed. *Ecology*, 88: 2609-2619.
McNeely, C., M.E. Power, and J. Finlay. 2007. Grazer traits, competition, and carbon sources to a headwater stream food web. *Ecology*, 88: 391-401.
Kronforst, M.R., L.G. Young, D.D. Kappan, C. McNeely, R.J. O’Neill, and L.E. Gilbert. 2006. Linkage of butterfly mate preference and wing color preference cue at genomic location of wingless. *Proceedings of National Academy of Sciences*, 103: 6575-6580.
McNeely, C. S.M. Clinton, and J.M. Erbe. 2006. Landscape variation in carbon sources to scraping primary consumers. *Journal of the North American Benthological Society*, 25: 787-799.
Suttle, K.B., M.E. Power, J.L. Levine, and C. McNeely. 2004. How fine sediment in riverbeds impairs growth and survival of juvenile salmonids. *Ecological Applications*, 14: 969-974.
McNeely, C., and M.C. Singer. 2001. Contrasting the roles of learning in butterflies foraging for nectar and oviposition sites. *Animal Behaviour*, 61: 847-852.

Presentations with Published Abstracts

- 2010 “Ecosystem metabolism along a stream size gradient in a mountain watershed” Association for Limnology and Oceanography and North American Benthological Society Joint Meeting, June 2010, Santa Fe, NM.
- 2008 “Drainage-area thresholds for shifting trophic interactions in the South Fork Eel River watershed,” in the special session “Tipping points: searching for thresholds in stream structure and function,” North American Benthological Society Annual Meeting, May 2008, Salt Lake City, Utah.
- 2007 “Are grazing caddisflies a source of limiting nutrients in streams?” Ecological Society of America Annual Meeting, August 2007, San Jose, California.
- 2007 “Excretion of limiting nutrients by stream insect grazers,” Pacific Evolution and Ecology Conference, March 2007, Seattle, Washington.
- 2006 “Excretion of limiting nutrients by grazing and detritivorous caddisflies,” North American Benthological Society Annual Meeting, June 2006, Anchorage, Alaska.
- 2004 “Seasonal variation in caddisfly herbivory within a forested watershed,” Ecological Society of America Annual Meeting, August 2004, Portland, Oregon.
- 2004 “Composition of herbivore diet and benthic organic matter along a gradient of stream size and productivity within the South Fork Eel River watershed,” North American Benthological Society Annual Meeting, May 2004, Vancouver, British Columbia.
- 2003 “Role of the armored grazer *Glossosoma penitum* in a headwater stream food web,” Ecological Society of America Annual Meeting, August 2003, Savannah, Georgia.
- 2003 “Intraspecific competition, primary productivity, and territory size in the aquatic caterpillar *Petrophila confusalis*,” North American Benthological Society Annual Meeting, June 2003, Athens, Georgia.
- 2002 “Caddisfly grazing in Northern California headwater streams,” North American Benthological Society Annual Meeting, June 2002, Pittsburg, Pennsylvania.
- 1997 “Estimating total species richness in a riffle habitat of the Devil's River in arid South Texas, USA,” North American Benthological Society Annual Meeting, June 1997, San Marcos, Texas.

Graduate Students

- Elliott Reams, completed M.S. June 2011. Thesis title: “Carbon Turnover Rate of *Gammarus* tissue”.
- Danielle Klinzing, completed M.S. Fall 2011. Thesis title: “Assessment of Cow Creek, WA, Following Riparian Restoration”.
- In progress: Carolyn Connelly, Conor Giorgi, Christine Schucker.

Courses

- Biology III (Biol 173), Eastern Washington University. Third quarter of introductory biology sequence, physiology of plants and animals. Developed activities for discussion section.
- Introduction to Biological Investigation (Biol 270), Eastern Washington University. Introductory biological laboratory focused on teaching students to apply scientific method to biological problems. Includes introductory statistics and students complete original research projects in small groups.
- Invertebrate Zoology (Biol 303), Eastern Washington University. Diversity, evolutionary history, natural history, ecology and systematics of Metazoans; includes laboratory.
- Great Ideas Seminar (Hons 398). Eastern Washington University. Seminar course where Honors students read and discussed recent non-fiction literature.
- Freshwater Invertebrate Zoology (Biol 481/581), Eastern Washington University. Identification, natural history, ecology, and evolution of aquatic invertebrates, including applications to biological monitoring of freshwaters. Students learn to identify invertebrates using professional-level keys and conduct a water-quality assessment of streams on the Turnbull Wildlife Refuge.
- Stream Ecology (Biol 445), Eastern Washington University. Function of stream ecosystems and communities, includes substantial field and laboratory component with an emphasis on training students in modern methods for measuring stream ecosystem processes.
- Current Topics in Ecology and Evolution (Biol 514), Eastern Washington University. Graduate student seminar-style course. Students present new papers on an area of active research.

Service

Eastern Washington University Library Affairs Council. 2013-present.

Eastern Washington University Honors Advisory Board. 2012-present.

Organizer of Eastern Washington University Biology Department Seminars. 2008-2013.

Eastern Washington University Biology Department Graduate Committee. 2009-present. Authored departmental response to EWU Graduate Program Audit, Spring 2010.

Eastern Washington University Program Audit Committee. 2010-2011.

Eastern Washington University Faculty and Creative Works Committee. 2009-2011.

Co-Organizer of Inland Northwest Aquatic, Riparian, and Wetland Symposium, Eastern Washington University Riverpoint Campus, Spokane, WA, February 2008.

Memberships

Ecological Society of America

Freshwaters Illustrated

Society for Freshwater Science