

# CURRICULUM VITAE

Updated January 2008

## Noah Ralph Lottig

Center for Limnology  
University of Wisconsin  
680 North Park Street  
Madison, Wisconsin 53706  
United States

+01 218 310 7460 (phone)  
+01 608 265 2340 (fax)  
nrlottig@wisc.edu (email)  
<http://www.noahlottig.com> (home page)

### **Current Professional Interests**

Ecosystem ecology and biogeochemistry; the role of aquatic ecosystems in watershed to regional scale carbon dynamics; influences of land use and climate change on aquatic ecosystems.

### **Education**

Ph.D., *Limnology and Oceanography*, University of Wisconsin – Madison, *in progress*  
M.S., *Biological Sciences*, Virginia Polytechnic Institute and State University, 2005  
B.S. *Legal Studies and Biological Sciences*, University of Wisconsin – Superior, 2003

### **Recent Professional Experience**

University of Wisconsin – Madison  
Center for Limnology

- 2005-present: Graduate Research Assistant (Long Term Ecological Research Network)
- 2002-2003: Undergraduate Research Fellow (Chase Noland Fellowship)

Virginia Polytechnic Institute and State University  
Department of Biological Sciences

- 2003-2005: Graduate Research Assistant

Environment Protection Agency, ORD, Duluth Minnesota

- 2001: Physical Environmental Science Technician

### **Teaching Experience**

Graduate Teaching Assistant

- Zoology 548 Ecology of Rivers and Streams (2006, 2008)
- Biology 4004 Freshwater Ecology (2004)
- Biology 1006 General Biology (2003, 2004)

## **Academic Mentoring**

NSF Research Experience for Undergraduates

- Loren P. Reinhardt (2004-2005)

## **Recent Awards**

- Wisconsin Wetlands Society – *Annual Meeting Student Award* (2007)
- North American Benthological Society – *Best Conservation Oriented Research Talk* (2006)
- North American Benthological Society – *Presidents Award* (2006)
- University of Wisconsin – *Anna Grant Birge Memorial Award* (2006)
- University of Wisconsin – *Jefferson Davis Travel Award* (2006)

## **Recent Science Service**

- University of Wisconsin Limnology and Fisheries Society – *President* (2007-present)
- Center for Limnology Safety Committee – *Co-chair* (2007-present)
- North American Benthological Society – *Session chair at annual meeting* (2006)
- North American Benthological Society – *Student paper judge at annual meeting* (2006)

## **Recent Outreach Activities**

- Winter Limnology – University of Wisconsin Saturday Enrichment Program, grades 5<sup>th</sup>-8<sup>th</sup> (2006, 2007, 2008)
- Pollution in the watershed – Girl Scouts Saturday Science Program (2006)

## **Publications**

2007

---

Lottig, N.R., H.M. Valett, M.E. Schreiber and J.R. Webster. 2007. Flooding and arsenic pollution: influences on stream ecosystem structure and function. *Limnology and Oceanography* 52:1991-2000.

Lottig, N.R. and E.H. Stanley. 2007. Benthic sediment influence on phosphorus concentrations in a headwater stream. *Biogeochemistry* 84:297-309.

Lottig, N.R. and J.M Fox. 2007. A potential mechanism for disturbance mediated channel migration in a southeastern salt marsh. *Geomorphology* 86:525-528.

## **Presentations<sup>1</sup>**

<sup>1</sup> underline indicates that the co-author is an undergraduate student under my supervision

2006

---

Lottig, N.R. and E.H. Stanley. 2006. Prairie restoration along Midwestern USA streams: influences on nutrient retention and ecosystem metabolism. North American Benthological Society.

Reinhard, L.P., N.R. Lottig, H.M. Valett, and M.E. Schreiber. 2006. Influence of elevated levels of arsenic on leaf decomposition and microbial structure and function in a headwater stream. North American Benthological Society.

2005

---

Lottig, N.R., H.M. Valett, J.R. Webster and M.E. Schreiber. 2005. Flooding and arsenic contamination: influences on ecosystem structure and function in an Appalachian headwater stream. Center for Limnology, University of Wisconsin Madison.

Lottig, N.R., H.M. Valett, J.R. Webster and M.E. Schreiber. 2005. Influence of multiple disturbance regimes on ecosystem structure and function. North American Benthological Society.

2004

---

Lottig, N.R. and H.M. Valett. 2004. Influence of elevated arsenic concentrations on nutrient retention in a headwater stream. North American Benthological Society.

Orr, C.H., K.L. Rogers, N.R. Lottig and E.H. Stanley. 2004. Phosphorus uptake, channel geometry, and sediment size before and after small dam removal in Boulder Creek, Wisconsin. North American Benthological Society.

Schreiber, M.E., H.M. Valett, M. Gentry, B. Brown, J. Brookshire and N.R. Lottig. 2004. Geologic Controls on arsenic discharge to a mine-impacted headwater stream. Geological Society of America.

2003

---

Lottig, N.R., E.H. Stanley. 2003. Benthic sediment influence on spatial heterogeneity of soluble reactive phosphorus concentrations in Boulder Creek. North American Benthological Society.

Lottig, N.R. and E.H. Stanley. 2003. Soluble reactive phosphorus dynamics of boulder creek. University of Wisconsin—Superior Research Symposium.

Lottig, N.R., K.D. Benton and M.J. Miller. 2003. A comparison of the incidence of disease on two coral reefs in Belize, C.A. University of Wisconsin—Superior Research Symposium.

2002

---

Lottig, N.R. 2002. Nutrient dynamics of Boulder Creek. (Invited Presentation). Department of Limnology and Oceanography. University Wisconsin Madison.

### **Posters<sup>1</sup>**

<sup>1</sup> underline indicates that the co-author is an undergraduate student under my supervision

2006

---

Lottig, N.R., E.H. Stanley, and J.T. Maxted. 2006. Influence of hydroscape position on biogeochemical signatures of NTL streams. LTER All Scientists Meeting.

2005

---

Reinhardt, L.P., N.R. Lottig, H.M. Valett and M.E. Schreiber. 2005. Influence of elevated arsenic concentrations on microbial respiration and phosphorus uptake in a headwater stream. North American Benthological Society.

Lottig, N.R., H.M. Valett, J.R. Webster and M.E. Schreiber. 2005. Influence of multiple disturbance regimes on ecosystem structure and function. 2<sup>nd</sup> Annual Virginia Tech Biology Department Research Symposium.

Reinhardt, L.P., N.R. Lottig, H.M. Valett and M.E. Schreiber. 2005. Influence of elevated levels of arsenic on microbial activity in a headwater stream. 2<sup>nd</sup> Annual Virginia Tech Biology Department Research Symposium.

2003

---

Lottig, N.R. and E.H. Stanley. 2003. Benthic sediment influence on phosphorus concentrations in a headwater stream. 1<sup>st</sup> Annual Virginia Tech Biology Department Research Symposium.