

ADDRESS

Work: Department of Entomology; 219 Hodson Hall; 1980 Folwell Ave.;
University of Minnesota; St. Paul, Minnesota 55108
E-mail: moriya_rufer@mac.com
Website: <http://www.entomology.umn.edu/midge/Rufer.htm>
Phone: (612) 382-4913

EDUCATION

University of Minnesota, St. Paul, Minnesota, Sept. 2004 - present
Department of Entomology
Master of Science, *in progress, anticipated graduation in December of 2006*
Thesis: Chironomidae as water quality indicators in Twin Cities Metro Area lakes.
Advisor: Dr. Leonard C. Ferrington, Jr.
4.0 GPA to date

College of St. Benedict/St. John's University, 1995-1999
B.A. Biology
3.7 GPA overall
3.8 GPA in major (4.0 scale)
Graduated Cum Laude
Studied Marine Biology in South Africa, Feb. 1998- June 1998

RELATED EXPERIENCE

University of Minnesota, St. Paul, MN, Sept. 2004 – present
Research Assistant
Identification of benthic macroinvertebrates of Voyageur's National Park for the National Park Service.
Illustration of the Chironomidae (Diptera) genus: *Pseudosmittia* for worldwide taxonomic revision.
Development of an online aquatic insect key for Citizen's Monitoring Groups

University of Minnesota, St. Paul, MN, Jan. 2006 – May 2006
Teaching Assistant
Volunteer Teaching Assistant for ENT5361, Aquatic Insects. Delivered lab lectures, supervised lab identification quizzes, helped students with identifying their own collections.

Lost Lake Lodge, Nisswa, MN, May 1999- Sept 1999
Resident Resort Naturalist
Assisted in management of area wildlife, forest, and lake quality; collected and identified native aquatic and terrestrial life; designed and taught family nature programs and hikes.

Novartis Seeds Research Facility, Stanton, MN
Entomology Lab and Field Assistant, June 1998-Sept. 1998
Rearred insects and applied them to test corn plant resistance; Designed, built, and organized areas to hold insects; Reported to supervisor the status of insect rearing project.

RELATED SKILLS

Proficient in the identification of aquatic macroinvertebrates to genus, Sept. 2005 - present
Proficient in all three lifestages of Chironomidae to genus
Proficient in Chironomidae pupal exuviae to species

Scientific Illustrator, Sept. 2004 - present
Completed a Scientific Illustration class at the University of Minnesota
Illustrated Chironomidae adults for a genus revision
Illustrated two leeches for a children's science book
Illustrated Chironomidae pupal exuviae for a key (part of M.S. thesis)

RELATED SKILLS, CONTINUED ...

Proficient Experienced editor and writer

Edited biannual CBSG News and CBSG Donor News, Sept. 2000 – Sept. 2004

Wrote for the University of Minnesota Entomology Department Newsletter, 2005 – 2006

Wrote a science column for college newspaper, Sept. 1998 – May 1999

Insect Photography, Sept. 2004 - present

Photographed insects for an online Insect Verification Program

PADI Certified Scuba Diver, May 1998 – present**Semi-fluent in Spanish****ACADEMIC PUBLICATIONS**

Rufer, M.M. and L.C. Ferrington, Jr. 2006. Sampling frequency required for community resolution of Chironomidae in urban lakes with contrasting trophic states. *Boletim do Museu Municipal do Funchal (In-press)*.

Rufer, M.M. and L.C. Ferrington, Jr. 2006. Rapid-bioassessment technique for resolving composition of Chironomidae in urban lakes with contrasting trophic states. (Abstract). *Bulletin of the North American Benthological Society* 23 (1).

Serieyssol, C.A., R.W. Bouchard Jr., A.W. Sealock, **M.M. Rufer**, J. Chirhart, J. Genet and L.C. Ferrington Jr. 2005. Bottle traps and dipnetting: Evaluation of two sampling techniques for assessing macroinvertebrate biodiversity in depressional wetlands. (Abstract). *Bulletin of the North American Benthological Society* 22 (1): 327.

PRESENTATIONS

Chironomid emergence in urban lakes with contrasting trophic states and sampling frequency required for community resolution. Oral presentation at the 16th International Chironomidae Symposium, Madeira, Portugal. July 25, 2006.

Rapid-bioassessment technique for resolving composition of Chironomidae in urban lakes with contrasting trophic states. Oral presentation at the North American Benthological Society Annual Meeting, Anchorage, Alaska. June 5, 2006.

Chironomidae as indicators of water quality in Twin Cities Metro Area Lakes. Thesis Proposal Seminar to Entomology Department, University of Minnesota, St. Paul. September 21, 2005

VOLUNTEER ACTIVITIES TO PROMOTE ENTOMOLOGY

50 Careers You've Never Heard Of. Spring 2006. I participated in a program through the College of St. Catherine where women scientists fill out a survey about their job and k-12 students get to read about it and ask questions. The program was designed to encourage women to enter science careers.

River Summit, Minnesota Science Museum, Fall 2005. I talked to a large group of high school classes about aquatic insects and their importance in rivers during a day long River Summit.

Olsen Middle School, North Minneapolis. Fall 2005. "How Insects are Beneficial." I spoke to 4 classes (2 at a time) of 7th and 8th grade students about how insects are beneficial. I then showed them many drawers of pinned specimens and answered questions.

St. Thomas Academy, Mendota Heights. Spring 2005. "Using Insects for Water Quality Testing." Spoke to a class of High School students about aquatic insects and how they are used in water quality monitoring. I brought vials of specimens in alcohol and they looked at them under a microscope.

GRANTS & FELLOWSHIPS

Allan Peterson Award for Excellence in the M.S. program, Entomology Department,
University of Minnesota
(2006)

Dayton Wilkie Grant, Bell Museum of Natural History, University of Minnesota
(2005, 2006)

GAPSA Student Travel Grant, University of Minnesota
(2006)

Office for University Women Student Travel Grant, University of Minnesota
(2006)

Entomology Student Travel Fellowship, University of Minnesota
(2004, 2005, 2006)

PROFESSIONAL ORGANIZATIONS

North American Benthological Society –NABS, 2004 - present

Graduate Women in Science – ΣΔΕ, 2005 - present

OTHER ACTIVITIES

President, Sept. 2005 – Sept. 2006
Frenatae Entomology Student Organization
Entomology Department
University of Minnesota

Computer Committee Member, Sept. 2005 – present
Entomology Department
University of Minnesota

Webmaster and Website Developer, Sept. 2004 – present
Chironomidae Research Group
Entomology Department
University of Minnesota

Council of Graduate Students Representative, Sept. 2004 – Sept. 2005
Frenatae Entomology Student Organization
Entomology Department
University of Minnesota