

# GARY A. LAMBERTI

## Curriculum Vitae

### Present Position

Professor and Chair  
Department of Biological Sciences  
University of Notre Dame  
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### Personal Information

Born: October 5, 1953  
Married, 2 children  
Citizenship: USA

### Education

Ph.D. 1983 University of California at Berkeley; Entomological Sciences  
Dissertation: *Interactions among herbivorous insects, algae, and bacteria in a geothermally influenced stream*

B.S. 1975 University of California at Davis; Entomology (High Honors)

### Research Interests

Stream and river ecology; biology of anadromous salmonids; plant-herbivore interactions in freshwater ecosystems; ecology of invasive species; watershed ecology; nutrient cycling in aquatic ecosystems; restoration ecology; ecotoxicology of novel chemicals; global change biology

### Professional Experience

2008 – present *Chair*, Department of Biological Sciences, University of Notre Dame  
2001 - 2008 *Assistant Chair*, Department of Biological Sciences, University of Notre Dame  
2000 - present *Professor*, Department of Biological Sciences, University of Notre Dame  
1995 - 2000 *Associate Professor*, Department of Biological Sciences, University of Notre Dame  
1989 - 1995 *Assistant Professor*, Department of Biological Sciences, University of Notre Dame  
1986 - 1989 *Research Assistant Professor*, Dept. of Fisheries & Wildlife, Oregon State University  
1984 - 1986 *Postdoctoral Associate*, Department of Fisheries & Wildlife, Oregon State University  
*Advisor*: Dr. Stanley V. Gregory  
1983 - 1984 *Postdoctoral Associate*, Department of Entomological Sciences, U.C. Berkeley  
*Advisor*: Dr. Vincent H. Resh

### Major Administrative Experience

2008 – present *Chair*, Department of Biological Sciences, University of Notre Dame. I oversee a department of some 40 faculty members, 80 staff, 140 graduate students, and 400 undergraduate students, with an annual budget of ~\$6 million.

2001 – 2008 *Director of Graduate Studies and Assistant Chair*, Department of Biological Sciences, University of Notre Dame. Oversight of a biology graduate program of 140 students, mostly Ph.D., spanning recruitment through graduation.

2001 – 2006 *Co-Director and Co-PI*, Graduate Training Program in 'Risk assessment of novel chemicals in the environment'. Sponsor: U.S. Department of Education - Graduate Assistance in Areas of National Need (GAANN). This program involved 10 faculty members in Engineering and Biology, and trained 10 Ph.D. students.

1997 – 1998 *President*, North American Benthological Society. NABS is a society of ~2000 professional aquatic scientists. The President oversees all society operations, including finances, committees, publications, and meetings.

1994 – 2001 *Director and PI, Graduate Research Training (GRT) Program in 'Environmental stress in ecosystems: linking ecology and engineering'. Sponsor: National Science Foundation – Education and Human Resources. This program involved 10 faculty members and trained 20 Ph.D. students.*

**Teaching Experience (at the University of Notre Dame unless noted)**

<u>Undergraduate Courses</u>	<u>Graduate Courses</u>	<u>Seminars</u>
Biostatistics	Stream Ecology	Ecological Experimentation
Limnology*	Advanced Aquatic Ecology	Lentic-Lotic Linkages
Aquatic Entomology (team)	Ecological Methods	Advanced Ecological Statistics
Stream Ecology*	Restoration Ecology	Current Theory in Community Ecology
Practicum in Aquatic Biology (team)	Practicum in Environmental Biology	Aquatic Ecosystems & Global Change
		Fisheries Professions*
		Environmental Law
		Seminar Preparation and Presentation

\*taught or co-taught at Oregon State University

**Professional Affiliations**

American Geophysical Union; Ecological Society of America; Indiana Academy of Sciences; North American Benthological Society

**Professional Service**

- Member, NEON-STEAC (Science, Technology, and Education Advisory Committee (2008 – present)
- Invited Panelist, Educational Panel of Economic Summit organized by Congressman Joe Donnelly (August 7, 2007)
- Chair, Science Advisory Board for the Annis Water Resources Institute, Grand Valley State University (2009 – present)
- Member, Science Advisory Board for the Annis Water Resources Institute, Grand Valley State University (2002 – 2009)
- Associate Editor, *Ecological Applications* (2001-2004)
- President, North American Benthological Society (1997-1998); President-Elect (1996-1997)
- Associate Editor, *Journal of the North American Benthological Society* (1991-1995)
- Chair, various committees of the North American Benthological Society: Hynes Award for New Investigators (1999-2000), Election and Place Committee (1998-1999), Constitutional Revision Committee (1993-1997), Award of Excellence Committee (1990-1991)
- Chair, Executive Committee of the North American Benthological Society (1986-1987)
- Member, Executive Committee of the North American Benthological Society (1987-1988, 1996-1999); International Issues Committee (2000-2002), Name Evaluation Committee (2003-2003)
- Co-Chair, Local Arrangements Committee for the North American Benthological Society Annual Meeting, Corvallis, Oregon (1985)
- Student Paper Judge: North American Benthological Society (continuous 1986-2008); Ecological Society of America (1988, 1993)
- Ad Hoc Reviewer for: *Ecology, Ecological Applications, Ecology Letters, Ecosystems, Oikos, The American Naturalist, American Midland Naturalist, Environmental Entomology, Hydrobiologia, Canadian Journal of Fisheries and Aquatic Sciences, Freshwater Biology, Canadian Journal of Zoology, Journal of the North American Benthological Society, Holarctic Ecology; Marine and Freshwater Research, Transactions of the American Fisheries Society, Archiv fur Hydrobiologie, Environmental Pollution, Oecologia, BioScience, Limnology and Oceanography, American Entomologist, Journal of Phycology, Environmental Toxicology & Chemistry, Water Quality Research Journal of Canada, Conservation Biology, Aquatic Sciences, International Review of Hydrobiology, Environmental Management, Restoration Ecology, Journal of Conservation Biology, Chemosphere; Environmental Science and Technology; Green Chemistry; Evolutionary Applications*

- Grant Referee for: *National Science Foundation (DEB Ecosystems & Ecology Programs); NSF/EPA/USDA Joint Water and Watersheds Research Program; Swiss National Science Foundation; NOAA - Sea Grant, Ohio Sea Grant College Program, Michigan Sea Grant College Program, Minnesota Sea Grant College Program, NSERC of Canada*
- Panel Member for: *National Science Foundation: NSF-EPA Water and Watershed Research (1995), Graduate Research Training Workshop (1997); Graduate Research Fellowships (1999, 2001, 2002); Science and Technology Centers (2003); USDA Managed Ecosystems Program (2006)*
- Book Reviewer for: *Ecology, Journal of the North American Benthological Society, NABS Bulletin, Oxford University Press, Prentice-Hall, Chapman & Hall, Academic Press*
- Symposium Organizer: *American Fisheries Society, Oregon Chapter (1989), North American Benthological Society (1992, 1993, 2000), Entomological Society of America (1993)*
- Invited Speaker at Meetings of: *Entomological Society of America (1983, 1989); North American Benthological Society (1982, 1989, 1990, 1991, 1992, 1993, 1997, 1998, 2000); California Licensed Foresters Association (1987); American Society of Foresters (1986); California Salmon and Trout Restoration Association (1988); Zebra Mussel & Aquatic Nuisance Species Conference (1999); Illinois-Indiana Sea Grant Researchers' Meeting (2001); State of Lake Michigan Conference (2003); International Conference on Ionic Liquids (2005); Society for Chemical Engineering and Biotechnology (2007)*

### **University Service**

- Member (appointed): *Faculty Senate (1992); Institutional Animal Care and Use Committee (1995-2001); Provost's Task Force on Strategic Directions in Science and Engineering -- Chair of Environmental Science subcommittee (1999); Provost's Task Force on Environmental Research and Education (2000-01); UND Committee on Research Challenges and Opportunities (2001-02); Fellowships Office Faculty Advisory Board (2004-05); Vice President's Task Force on Graduate Student Academic Life (2005); Fulbright Scholarship Evaluation Committee (2006-07); Provost's Task Force on Statistics (2006-07); Provost's Task Force on the Environment (2006-07); Office of Research Limited Submissions Committee (2007-present); CEST Advisory Board (2007-present); College of Science Dean's Advisory Committee (2008-present); College of Science Council (2008-present)*
- Member (elected): *College of Science Council (1994-1997; 2001-2005); Graduate Council (1998-2001); Dept. of Biological Sciences Committee on Appointments and Promotions (CAP) (1999-2008); Chair of CAP (2008-present)*
- Member or Chair: *various departmental committees including over 30 graduate student thesis committees in two Colleges and chair or co-chair of 5 faculty search committees.*
- Presenter for *Junior Parents Weekend (2009), Early Action Students (2009)*

### **Community Service**

- Member, *Corpus Christi Grade School Board of Education (2006 – 2008)*
- Volunteer Speaker, *UND College Mentors for Kids (2006)*
- Outreach Educator, *Young Naturalist Club, Shedd Aquarium, Chicago, IL (2003 – 2006)*
- Volunteer Science Educator, *Corpus Christi Catholic School, South Bend (2005)*
- Volunteer Reader, *Montessori Preschool, South Bend Center for the Homeless (2003 – present)*
- Volunteer Boys' Soccer Coach, *Michiana Soccer Association (2004 – 2006)*
- Volunteer Girls' Soccer Coach, *Michiana Soccer Association (2006 – 2009)*
- Volunteer Boys' Soccer Coach, *Corpus Christi Catholic School, South Bend (2007)*
- Mentor for *Local High School Science Fair Projects (12 high school students to date)*
- Judge, *Northern Indiana Regional Science Fair (1990 – present)*

### **Awards, Honors, and Elective Offices**

- Rev. Edmund P. Joyce, CSC, *Award for Excellence in Undergraduate Teaching (2009)*
- Faculty Fellow, *John A. Kaneb Center for Teaching and Learning, University of Notre Dame (2007-08)*
- Lecturer, *Hesburgh Lecture Series, University of Notre Dame (2008)*

- Commencement Speaker, Biological Sciences Graduation, University of Notre Dame (2009)
- Commencement Speaker, Environmental Science Graduation, University of Notre Dame (2007)
- John A. Kaneb Award for Teaching Excellence, University of Notre Dame (2006)
- Commencement Speaker, Science-Business Graduation, University of Notre Dame (2006)
- Reverend James A. Burns, C.S.C., Graduate School Award for Excellence in Graduate Education, University of Notre Dame (2004)
- College of Science Shilts-Leonard Teaching Award University of Notre Dame (2003)
- John A. Kaneb Award for Teaching Excellence, University of Notre Dame (2001)
- President (elected), North American Benthological Society (1997-1998) – NABS is a society of 2000 professional aquatic scientists
- Professor of the Term Award; Mortarboard Society, Oregon State University (1987)
- Best Student Paper Award; North American Benthological Society Annual Meeting, Ann Arbor MI (1982)
- Distinguished Teaching Assistant; University of California, Berkeley (1981)
- Outstanding Graduate Student Award; Department of Entomological Sciences, U.C. Berkeley (1981)
- Union Foundation Wildlife-Fisheries Fellowship, U.C. Berkeley (1976-1977)
- National Institutes of Health Predoctoral Fellowship, U.C. Berkeley (1975-1977)

### **Other Recognitions**

- Featured Researcher for Great Lakes Regional Research Information Network (October 2007)
- Salmon research featured in UND *Pathways* magazine (Fall 2005, Fall 2007)
- River restoration research featured in NDWorks – Notre Dame staff newspaper (November 1, 2007)
- Principal Investigator for research on invasive fish that was recognized as 1 of 162 U.S. “Scientific Breakthroughs” for 1998 cited in a report to Congress by *The Science Coalition*
- Panel Member, National Science Foundation (1995, 1997, 1999, 2001, 2002, 2003)
- Panel Member, U.S. Department of Agriculture (2006)
- Invited Speaker and Dissertation Opponent, University of Uppsala, Sweden (December, 1993)
- Senior author of paper (*Ecology* 64:1124-1135) recognized as one of “The 10 Most Cited Papers in Plant Herbivory, 1981-1993” by *The Scientist* (June 26, 1991) from review of *Science Citation Index*
- Research in invasive fishes featured in *The Helm* – popular publication of the Illinois-Indiana Sea Grant College Program.
- Listed in: Who's Who in Science and Technology; Who's Who in the Midwest; Who's Who in America; Who's Who in the World, Who's Who in American Education, American Men and Women of Science, Who's Who in Science Higher Education (1991-present)

### **Graduate Students and Postdoctorates**

*Graduate students advised:* Steven Hurley – M.S. 1994; Patrice Charlebois – M.S. 1994; Cynthia Tait (co-advised) – Ph.D. 1997; Thomas Horvath – Ph.D. 1997; Aimee Fullerton – M.S. 1998; Danielle Tillman – Ph.D. 1999; Robert Stelzer – Ph.D. 1999; Eric Strauss – Ph.D. 2000; Ashley Moerke – M.S. 2000; Nicole Mitchell – M.S. 2002; Candice Bauer – Ph.D. 2003; Ashley Moerke – Ph.D. 2004; Jean Miesbauer – M.S. 2004; Asako Yamamuro – M.S. 2004; Michelle Evans-White – Ph.D. 2005; Anthony Cak – M.S. 2005; James Larson (co-advised) – Ph.D. 2006; Sally Entekin (co-advised) – Ph.D. 2008; Konrad Kulacki – Ph.D. 2009; Angela Bobeldyk – Ph.D. 2009; David Costello – Ph.D. in progress; Andrea Fowler – M.S. in progress; Janine Rueegg – Ph.D. in progress; David Janetski – Ph.D. in progress; Patrick Shirey – Ph.D. in progress; Matthew Cooper – Ph.D. in progress

*Postdoctorates advised:* Jason Knouft – 2001-2002; Emma Rosi-Marshall (co-advisor) – 2002-2004; Dominic Chaloner – 2000-2004; Paul Frost – 2002-2005; Randy Bernot – 2003-2005; Aline Matsuo – 2005-2006; Scott Tiegs – 2006-2008

*Research Assistant Professor advised:* Dominic Chaloner – 2004-2007

### **Awards and Honors to Advised Students**

- Candice R. Bauer - Clair Booth Luce Graduate Fellowship (1998-2003); Best Oral Presentation in Applied Research, North American Benthological Society, LaCrosse, WI (2001)
- Angela M. Bobeldyk – Best Poster Presentation in Basic or Applied Research at the Annual Meeting of the North American Benthological Society in Vancouver, BC (2004); Selected Participant in *Ecosystem Ecology* Course, Institute of Ecosystem Studies, NY (2004); Downes Travel Award (2004); Best Oral Presentation Award, Indiana Lakes Management Society (2006); UND Travel Award (2006); Best Student Paper Award (runner-up), NALMS, International Lakes Management Society Meeting (2006); Graduate Fellow - *Center for Aquatic Conservation* (2007); Kaneb Teaching Assistant Award (2007); NABS President's Award (2007); Knauss Fellowship (2008)
- Matthew Cooper – NSF IGERT-Globes Fellowship (2009-2013)
- David Costello – UNDERC Summer Research Fellowship (2005, 2006); UND Travel Award (2005); Selected Participant in *Ecosystem Ecology* Course, Institute of Ecosystem Studies, NY (2006); Downes Travel Grant (2006), Sigma Xi Grant-in-Aid of Research (2006-2007); Best Oral Presentation in Basic Research (runner-up) at the Annual Meeting of the North American Benthological Society in Columbia, SC (2007); NABS President's Award (2007); NSF Doctoral Dissertation Improvement Grant (2008); Bayer Predoctoral Fellowship (2008), Outstanding Graduate Student Teacher Award for Excellence in Teaching, Kaneb Center for Teaching and Learning (2009).
- Sally A. Entreklin – Selected Participant in *Ecosystem Ecology* Course, Institute of Ecosystem Studies, NY (2005); NABS President's Award (2006); Sigma Xi Grant-in-Aid of Research (2006), Gordon Travel Grant (2006); NABS Best Oral Presentation Award in Applied Research (2008)
- Michelle A. Evans-White – NSF Graduate Research Traineeship (2000-2001); Best Oral Presentation in Basic Research, North American Benthological Society, LaCrosse, WI (2001); Summer Grant-Writing Fellowship (2002); U.S. Dept. of Education GAANN Fellowship (2002-2005); Bayer Predoctoral Research Fellowship (2003-2004); UMBS Summer Research Scholarship (2003) ); Sigma Xi Grant-in-Aid of Research (2004); NABS Student Travel Award (2004); The Eli J. and Helen Shaheen Graduate School Award in Science (2006)
- Andrea Fowler – Arthur J. Schmitt Presidential Fellowship (2005-2009); UNDERC Summer Research Fellowship (2006)
- Aimee H. Fullerton - NSF Graduate Research Traineeship (1995-1998)
- Thomas G. Horvath - 2004 Richard Siegfried Junior Faculty Prize for Academic Excellence, State University College at Oneonta
- David Janetski – Arthur J. Schmitt Presidential Fellowship (2006-2010), Best Oral Presentation in Applied Research at the Annual Meeting of the North American Benthological Society in Columbia, SC (2007)
- Konrad Kulacki – U.S. Dept. of Education GAANN Fellowship (2003-2005); Best Oral Paper Award, Ohio Valley Chapter of SETAC (2006); Best Student Presentation, Ohio Valley Chapter of SETAC (2008)
- James Larson – UNDERC Summer Research Fellowship (2004); U.S. Dept. of Education GAANN Fellowship (2003-2005); Indiana Academy of Sciences Grant-in-Aid of Research (2005); Bayer Predoctoral Fellowship (2005-2006); Best Oral Paper Award, Ohio Valley Chapter of SETAC (2006)
- Jean M. Miesbauer – UNDERC Summer Research Fellowship (2002)
- Ashley H. Moerke - Finalist, Proctor & Gamble Co. Research Award (1999); NSF Graduate Research Traineeship (2000-2001); Kaneb Teaching Assistant Award (2001); Bayer Predoctoral Research Fellowship (2002-2003); Warner-Lambert Fellowship (2003-2004); NABS Student Travel Award (2004)
- Janine Rueegg - Selected Participant in *Ecosystem Ecology* Course, Institute of Ecosystem Studies, NY (2008); NABS President's Award (2008)
- Patrick Shirey – NSF IGERT-Globes Fellowship (2007-2011); Center for Aquatic Conservation Fellowship (2009)
- Robert S. Stelzer - Best Poster at Annual Meeting of the North American Benthological Society, Kalispell, MT (1996); Indiana Academy of Science Research Award (1996, 1997); UND Navari Graduate Fellowship (1995); NSF Doctoral Dissertation Improvement Grant (1997); NSF Graduate Research Traineeship (1998-1999); The Eli J. and Helen Shaheen Graduate School Award in Science (2000).
- Eric A. Strauss - NSF Graduate Research Traineeship (1995-2000); NSF Doctoral Dissertation Improvement Grant (1997)
- Danielle C. Tillman – Clare Booth Luce Graduate Fellowship (1992-1997); NSF Graduate Research Fellowship (1993-1998)

Asako M. Yamamuro – Notre Dame Minority Graduate Fellowship (2001-2003); UNDERC Summer Research Fellowship (2002)

**Scholarly Presentations (number only)**

*Invited Seminars, Addresses, and Lectures:* 41

*Invited Symposium Contributions:* 30

*Symposia Organized:* 4

*Contributed Papers (Presenting Author):* 16

*Contributed Papers and Posters (Co-Author):* 178

**PUBLICATIONS**

**Refereed Journal Papers**

1. **Lamberti, G.A.** and V.H. Resh. 1979. Substrate relationships, spatial distribution patterns, and sampling variability in a stream caddisfly population. *Environ. Entomol.* 8:561-567.
2. Rosenberg, D.M., and 13 others including **G.A. Lamberti**. 1981. Recent trends in environmental impact assessment. *Can. J. Fish. Aquat. Sci.* 38:591-624.
3. Resh, V.H., T.S. Flynn, **G.A. Lamberti**, E.P. McElravy, K.L. Sorg, and J.R. Wood. 1981. Responses of the sericostomatid caddisfly *Gumaga nigricula* (McL.) to environmental disruptions. *Ser. Entomol.* (The Hague) 20:311-318.
4. **Lamberti, G.A.** and V.H. Resh. 1983. Stream periphyton and insect herbivores: an experimental study of grazing by a caddisfly population. *Ecology* 64:1124-1135.
5. **Lamberti, G.A.** and V.H. Resh. 1983. Geothermal effects on stream benthos: separate influences of thermal and chemical components on periphyton and macroinvertebrates. *Can. J. Fish. Aquat. Sci.* 40:1995-2009.
6. Resh, V.H., **G.A. Lamberti**, and J.R. Wood. 1984. Biology of the caddisfly *Helicopsyche borealis* (Hagen): a comparison of North American populations. *Freshwat. Invertebr. Biol.* 3:172-180.
7. Resh, V.H., **G.A. Lamberti**, and J.R. Wood. 1984. Biological studies of *Helicopsyche borealis* (Hagen) in a coastal California stream. *Ser. Entomol.* (The Hague) 30:315-319.
8. **Lamberti, G.A.** and V.H. Resh. 1985. Comparability of introduced tiles and natural substrates for sampling lotic bacteria, algae, and macro-invertebrates. *Freshwat. Biol.* 15:21-30.
9. **Lamberti, G.A.** and V.H. Resh. 1985. Distribution of benthic algae and macroinvertebrates along a geothermal stream gradient. *Hydrobiologia* 128: 13-21.
10. Schwan, T.G. and **G.A. Lamberti**. 1986. Influence of oxygen concentration on the respiratory behavior of tilapia (*Sarotherodon alcalicus grahami*) in Lake Nakuru, Kenya. *African J. Ecology* 24: 199-202.
11. **Lamberti, G.A.** and V.H. Resh. 1987. Seasonal patterns of suspended bacteria and algae in two northern California streams. *Arch. Hydrobiol.* 110:45-57.
12. **Lamberti, G.A.**, J.W. Feminella, and V.H. Resh. 1987. Herbivory and intraspecific competition in a stream caddisfly population. *Oecologia* 73:75-81.
13. **Lamberti, G.A.**, L.R. Ashkenas, S.V. Gregory, and A.D. Steinman. 1987. Effects of three herbivores on periphyton communities in laboratory streams. *J. N. Am. Benthol. Soc.* 6: 92-104.
14. Steinman, A.D., C.D. McIntire, S.V. Gregory, **G.A. Lamberti**, and L.R. Ashkenas. 1987. Effects of herbivore type and density on taxonomic structure and physiognomy of algal assemblages in laboratory streams. *J. N. Am. Benthol. Soc.* 6:175-188.

15. Steinman, A.D., and **G.A. Lamberti**. 1988. Lotic algal communities in the Mt. St. Helens region six years following the eruption. *J. Phycol.* 24:482-489.
16. McElravy, E.P., **G.A. Lamberti**, and V.H. Resh. 1989. Year-to-year variation in the aquatic macroinvertebrate fauna of a northern California stream. *J. N. Am. Benthol. Soc.* 8:51-63.
17. Steinman, A.D., C.D. McIntire, S.V. Gregory, and **G.A. Lamberti**. 1989. Effects of irradiance and grazing on lotic algal assemblages. *J. Phycol.* 25:478-485.
18. **Lamberti, G.A.**, S.V. Gregory, L.R. Ashkenas, A.D. Steinman, and C.D. McIntire. 1989. Productive capacity of periphyton as a determinant of plant-herbivore interactions in streams. *Ecology* 70:1840-1856.
19. Stream Solute Workshop (19 authors including **G.A. Lamberti**). 1990. Concepts and methods for assessing solute dynamics in stream ecosystems. *J. N. Am. Benthol. Soc.* 9:95-119.
20. DeNicola, D.M., C.D. McIntire, **G.A. Lamberti**, S.V. Gregory, and L.R. Ashkenas. 1990. Temporal patterns of grazer-periphyton interactions in laboratory streams. *Freshwat. Biol.* 23:475-489.
21. **Lamberti, G.A.**, S.V. Gregory, L.R. Ashkenas, R.C. Wildman, and K.M.S. Moore. 1991. Stream ecosystem recovery following a catastrophic debris flow. *Can. J. Fish. Aquat. Sci.* 48:196-208.
22. Bergey, E.A., S.S. Balling, J.N. Collins, **G.A. Lamberti**, and V.H. Resh. 1992. Bionomics of invertebrates within an extensive *Potamogeton pectinatus* bed of a California marsh. *Hydrobiologia* 234:15-24.
23. **Lamberti, G.A.**, S.V. Gregory, C.P. Hawkins, R.C. Wildman, L.R. Ashkenas, and D.M. DeNicola. 1992. Plant-herbivore interactions in streams near Mount St. Helens. *Freshwat. Biol.* 27:237-247. (Note: Featured in cover photograph for journal issue)
24. Pearsons, T.N., H.W. Li, and **G.A. Lamberti**. 1992. Influence of habitat complexity on resistance to flooding and resilience of stream fish assemblages. *Trans. Am. Fish. Soc.* 121:427-436.
25. Ehrman, T.P., and **G.A. Lamberti**. 1992. Hydraulic and particulate matter retention in a 3rd-order Indiana stream. *J. N. Am. Benthol. Soc.* 11:341-349.
26. **Lamberti, G.A.** 1993. Grazing experiments in artificial streams. *J. N. Am. Benthol. Soc.* 12:337-342.
27. Tait, C.K., J.L. Li, **G.A. Lamberti**, T.N. Pearsons, and H.W. Li. 1994. Relationships between riparian cover and the community structure of high desert streams. *J. N. Am. Benthol. Soc.* 13:45-56.
28. Li, H.W., **G.A. Lamberti**, T.N. Pearsons, C.K. Tait, J.L. Li, and J.C. Buckhouse. 1994. Cumulative effects of riparian disturbances on high desert trout streams of the John Day Basin, Oregon. *Trans. Am. Fish. Soc.* 123:627-640.
29. **Lamberti, G.A.**, and M.B. Berg. 1995. Invertebrates and other benthic features as indicators of environmental change in Juday Creek, Indiana. *Nat. Areas J.* 15:249-258.
30. **Lamberti, G.A.**, S.V. Gregory, L.R. Ashkenas, J.L. Li, A.D. Steinman and C.D. McIntire. 1995. Influences of grazer type and abundance on plant-herbivore interactions in streams. *Hydrobiologia* 306:179-188.
31. Maloney, D.C., and **G.A. Lamberti**. 1995. Rapid decomposition of summer-input leaves in a northern Michigan stream. *Am. Midl. Nat.* 133:184-195.

32. Horvath, T.G., **G.A. Lamberti**, D.M. Lodge, and W.L. Perry. 1996. Zebra mussels in lake-stream systems: source-sink dynamics? *J. N. Am. Benthol. Soc.* 15:564-575.
33. Charlebois, P.M., and **G.A. Lamberti**. 1996. Invading crayfish in a Michigan stream: direct and indirect effects on periphyton and macroinvertebrates. *J. N. Am. Benthol. Soc.* 15:551-563.
34. Perry, W.L., D.M. Lodge, and **G.A. Lamberti**. 1997. Impact of crayfish predation on exotic zebra mussels and native invertebrates in a lake-outlet stream. *Can. J. Fish. Aquat. Sci.* 54:120-125.
35. **Lamberti, G.A.**, and A.D. Steinman. 1997. A comparison of primary production in stream ecosystems. *J. N. Am. Benthol. Soc.* 16:95-104.
36. Horvath, T.G., and **G.A. Lamberti**. 1997. Drifting macrophytes as a mechanism for zebra mussel (*Dreissena polymorpha*) invasion of lake-outlet streams. *Am. Midl. Nat.* 138:29-36.
37. Fullerton, A.H., **G.A. Lamberti**, D.M. Lodge, and M.B. Berg. 1998. Prey preferences of Eurasian ruffe and yellow perch: comparison of laboratory results with composition of Great Lakes benthos. *J. Great Lakes Res.* 24:319-328.
38. Horvath, T.G., and **G.A. Lamberti**. 1999. Recruitment and growth of zebra mussels (*Dreissena polymorpha*) in a coupled lake-stream system. *Arch. Hydrobiol.* 145:197-217.
39. Horvath, T.G., and **G.A. Lamberti**. 1999. Mortality of zebra mussel, *Dreissena polymorpha* (Pallas), veligers during downstream transport. *Freshwat. Biol.* 41:1-8.
40. Horvath, T.G., K.M. Martin, and **G.A. Lamberti**. 1999. Effect of zebra mussels, *Dreissena polymorpha*, on macroinvertebrates in a lake-outlet stream. *Am. Midl. Nat.* 142: 340-347.
41. Stelzer, R.S., and **G.A. Lamberti**. 1999. Independent and interactive effects of crayfish and darters on a stream benthic community. *J. N. Am. Benthol. Soc.* 18: 524-532.
42. Lewis, K.M., J.L. Feder, and **G.A. Lamberti**. 2000. Population genetics of the zebra mussel, *Dreissena polymorpha* (Pallas): Local allozyme differentiation within Midwestern lakes and streams. *Can. J. Fish. Aquat. Sci.* 57: 637-643.
43. Fullerton, A.H., **G.A. Lamberti**, D.M. Lodge, and F.W. Goetz. 2000. Potential for resource competition between Eurasian ruffe and yellow perch: growth and RNA responses in laboratory experiments. *Trans. Am. Fish. Soc.* 129: 1331-1339.
44. Strauss, E.A., and **G.A. Lamberti**. 2000. Regulation of nitrification in aquatic sediments by organic carbon. *Limnol. Oceanogr.* 45:1854-1859.
45. Lewis, K.M., J.L. Feder, T.G. Horvath, and **G.A. Lamberti**. 2000. Heterozygosity and fitness: no strong association in Great Lakes populations of the zebra mussel, *Dreissena polymorpha* (Pallas). *Malacologica* 42: 113-122.
46. Perry, W.L., D.M. Lodge, and **G.A. Lamberti**. 2000. Crayfish (*Orconectes rusticus*) impacts on zebra mussel (*Dreissena polymorpha*) recruitment, other macroinvertebrates and algal biomass in a lake-outlet stream. *Am. Midl. Nat.* 144: 308-316.
47. Stelzer, R.S., and **G.A. Lamberti**. 2001. Effects of N:P ratio and total nutrient concentration on stream periphyton community structure, biomass, and elemental composition. *Limnol. Oceanogr.* 46: 356-367.
48. Strauss, E.A., and **G.A. Lamberti**. 2002. Effect of dissolved organic carbon quality on microbial decomposition and nitrification rates in stream sediments. *Freshwat. Biol.* 47: 65-74.

49. Stelzer, R.S., and **G.A. Lamberti**. 2002. Ecological stoichiometry in running waters: periphyton chemical composition and snail growth. *Ecology* 83: 1039-1051.
50. Strauss, E.A., N. L. Mitchell, and **G.A. Lamberti**. 2002. Factors regulating nitrification in aquatic sediments: effects of organic carbon, nitrogen availability, and pH. *Can. J. Fish. Aquat. Sci.* 59:554-563.
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### **Contributions to Symposium Proceedings**

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### **Book Reviews**

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### GRANTS AND CONTRACTS

#### Research Grants and Contracts

1. Macroinvertebrate growth and production as influenced by beaver ponds in fluvial systems. USDA Forest Service. Principal Investigator, **\$21,000**, 1985-1986.
2. Fish habitat and riparian zone interactions: a basin perspective. U.S. Bureau of Land Management. Co-Principal Investigator, **\$165,000**, 1987-1989. (PI: Stan Gregory)
3. Cumulative impact of riparian cover on thermal loading, trophic processes, and juvenile steelhead trout in small streams of the John Day Basin. Water Resources Research Institute, U.S. Geological Survey. Principal Investigator, **\$33,000**, 1988-1990. (co-PI: Hiram Li)
4. Plant-herbivore interactions in stream ecosystems. National Science Foundation. Principal Investigator, **\$270,000**, 1990-1993. (co-PIs: Stan Gregory and C. David McIntire)
5. REU Supplement: Plant-herbivore interactions in stream ecosystems. National Science Foundation. Principal Investigator, **\$5000**, 1991.
6. Establishment of a monitoring network for zebra mussels in streams of Indiana Dunes National Lakeshore. National Park Service. Principal Investigator, **\$3459**, 1992-1993.
7. Impact of zebra mussels on unionid clams of the St. Joseph River system in Indiana. Indiana Department of Natural Resources. Principal Investigator, **\$5043**, 1993-1994.
8. Invasion, impact, and interactions of zebra mussels and rusty crayfish in the St. Joseph River basin, Indiana-Michigan, and in streams of northern Wisconsin-Michigan. U.S. Environmental Protection Agency. Principal Investigator, **\$193,689**, 1992-1994. (co-PI: David Lodge)
9. Renewal: Invasion, impact, and interactions of zebra mussels and rusty crayfish in the St. Joseph River basin, Indiana-Michigan, and in streams of northern Wisconsin-Michigan. U.S. Environmental Protection Agency. Principal Investigator, **\$120,209**, 1994-1996. (co-PIs: David Lodge and Jeff Feder)
10. Analysis of benthic macroinvertebrate communities in relation to stream type and habitat variables. USDA Forest Service. Principal Investigator, **\$2360**, 1994-1995.
11. Condition of stream channels and fisheries in the Ontonagon River system under current flow regimes of the Bond Falls Project. USDA Forest Service. Principal Investigator, **\$2400**, 1995-1996.
12. Limiting factors and ecological effects of zebra mussels in a southern Lake Michigan drainage. NOAA - Sea Grant. Principal Investigator, **\$12,000**, 1996.
13. Analysis of river valley geomorphology using GIS. USDA Forest Service. Principal Investigator, **\$2400**, 1997-1998.
14. Potential effects of invading ruffe (*Gymnocephalus cernuus*) on benthic and pelagic ecosystems of the Great Lakes. NOAA - Sea Grant. Principal Investigator, **\$366,513**, 1995-1999. (co-PIs: David Lodge and Marty Berg)
15. Dissertation research for R. S. Stelzer: Role of ecological stoichiometry in plant-herbivore interactions: a test in stream ecosystems. National Science Foundation. **\$4500**, 1997-1999.

16. Dissertation research for E. A. Strauss: Effects of dissolved organic carbon on nitrification rates in aquatic ecosystems. National Science Foundation. **\$9985**, 1997-1999.
17. Stream macroinvertebrate response to hydroelectric dam operations. USDA Forest Service. Principal Investigator, **\$5000**, 1999-2000.
18. Restoration of degraded midwestern streams: implications for water quality and biological communities. USGS-Water Resources. Principal Investigator, **\$75,000**, 1997-2001.
19. Primary production in the Kissimmee River - floodplain system. South Florida Water Management District. Principal Investigator, **\$40,000**, 1997-2001.
20. Restoration of Indiana streams: A comparison of restoration strategies at a statewide level. USGS via Indiana Water Resources Research Center. Principal Investigator, **\$14,089**, 2000-2001. (co-PI: Ashley Moerke).
21. Effects of stormwater filters on stream temperature. St. Joseph County Drainage Board, Indiana. Principal Investigator, **\$60,000**, 1997-2001.
22. Evaluation of restoration efforts in Cook's Run, Ottawa National Forest. USDA Forest Service. Principal Investigator, **\$8000**, 1998-2001.
23. Linking marine-derived nutrients to stream ecosystem function using a 15N tracer addition combined with an experimental salmon carcass addition. NSF. Co-Principal Investigator (PI: Jennifer Tank), **\$26,414**, 2001-2002.
24. Fishery response to restoration of Juday Creek on the University of Notre Dame campus. University of Notre Dame. Principal Investigator, **\$14,742**, 1998-2003.
25. Influence of marine nutrients from salmon on stream ecosystems. USDA – NRI. Principal Investigator, **\$410,500**, 1999-2003. (co-PIs: Mark Wipfli, Richard Merritt, and Peggy Ostrom)
26. Zebra mussels, round gobies, and Eurasian ruffe: predicting ecological impacts of the 'exotic triad' to improve control. Illinois-Indiana Sea Grant College Program. Principal Investigator, **\$116,535**, 2000-2003. (co-PI: Martin Berg)
27. Determining the environmental impacts on aquatic ecosystems and biodegradability of new ionic liquids prior to widespread industrial use. NOAA-OAR. Principal Investigator. **\$250,000**, 2002-2004.
28. Factors limiting stream productivity in the Ottawa National Forest: a watershed perspective. USDA Forest Service. Principal Investigator, **\$23,730**, 2000-2005.
29. Interactive effects of climate change, wetlands, and dissolved organic matter on UV damage to aquatic foodwebs. USEPA-STAR. Co-Principal Investigator (PI: Scott Bridgham). **\$895,307**, 2002-2006.
30. Large woody debris: Effects on stream processes and fish composition in streams of the Ottawa National Forest. USDA Forest Service. Principal Investigator, **\$22,500**, 2003-2005.
31. Toxicity of ionic liquids to a vascular plant (*Lemna minor*) in the presence of dissolved organic matter. Indiana Academy of Science. Principal Investigator (Supported student: James Larson). **\$2307**, 2005.
32. Role of large woody debris in restoring stream ecosystem function in managed U.S. forests. USDA-NRI. Co-Principal Investigator (PI: Jennifer Tank), **\$375,000**, 2002-2006.

33. Determining the environmental impacts on aquatic ecosystems and biodegradability of new ionic liquids prior to widespread industrial use. NOAA-OAR. Principal Investigator. **\$494,739**, 2004-2006.
34. Pyridinium-based ionic liquids – new non-volatile solvents for industrial applications. Indiana 21<sup>st</sup>-Century Research and Technology Fund. Co-Principal Investigator (PI: Joan Brennecke), **\$1,363,099**, 2002-2007.
35. Determining the environmental fate, biodegradability, and impacts on aquatic ecosystems of new ionic liquids prior to widespread industrial use. NOAA-OAR. Principal Investigator. **\$475,900**, 2005-2007.
36. Ecology and food web structure of ponds on the West Copper River Delta, Alaska. USDA Forest Service. Co-PI (PI: Martin Berg). **\$45,000 (\$10,000 to Notre Dame)**. 10/01/07 – 04/30/08.
37. Ecological forecasting and risk analysis of nonindigenous species: strategic optimization using a bio-economic approach. NSF-IRCEB. Co-Principal Investigator (PI: David Lodge). **\$2,989,645**. 09/01/02 – 08/31/09.
38. Historical ecology of the Namekagon River system of Wisconsin. National Park Service and Wisconsin DNR. Principal Investigator. **\$15,000**. 7/1/08 – 5/31/09.
39. Dean John A. Knauss marine policy fellowship (for Angela M. Bobeldyk). NOAA. Principal Investigator. **\$40,132**. 2/01/08 – 1/31/09.
40. The role of salmon-derived nutrients in managed U.S. forests. USDA-NRI. Principal Investigator. **\$420,000**. 04/01/06 – 09/30/09.
41. Ecology and food web structure of ponds on the West Copper River Delta, Alaska. USDA Forest Service. Co-PI (PI: Martin Berg). **\$45,000 (\$10,000 to Notre Dame)**. 11/01/08 – 5/31/09.

Active Grants and Contracts:

42. Impacts of introduced Pacific salmon on ecological communities of Great Lakes tributaries. Great Lakes Fishery Trust. Principal Investigator. **\$150,637**. 11/01/07 – 10/31/10.
43. DISSERTATION RESEARCH (for David Costello): Modeling the effects of invasive earthworms on watershed nitrogen dynamics. NSF-DEB. Principal Investigator. **\$9,837**. 5/1/08 – 4/30/10.
44. Contribution of freshwater wetland food webs to migratory bird diets in the Copper River Delta of Alaska. USDA Forest Service. Principal Investigator. **\$29,000**. 9/1/09 – 8/31/10.
45. IUGLS Ecosystems Study Areas Data Coordination Team. International Joint Commission via Central Michigan University. Principal Investigator. **\$35,000 (\$7500 to Notre Dame)**. 11/13/09 – 9/30/10.

**Instructional and Educational Grants**

46. Environmental stress in ecosystems: linking ecology and engineering. National Science Foundation; Graduate Research Training (GRT) Program. Principal Investigator. **\$562,500**. 1995-2000.
47. Risk assessments of novel chemicals in the environment. U.S. Department of Education - Graduate Assistance in Areas of National Need (GAANN). Co-Principal Investigator (PI: Joan Brennecke). **\$497,850**. 2001-2006.
48. IGERT: Global Linkages of Biology, Environment, and Society (GLOBES). National Science Foundation. Co-Principal Investigator (PI: Jeff Feder), **\$3,387,561**. 09/01/05 - 08/31/10.