

CURRICULUM VITAE

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Barbara Lynn Peckarsky

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EDUCATION

BS: June 1969, Zoology, University of Wisconsin, Madison
MS: August 1971, Zoology-Education, University of Wisconsin, Madison
PhD: May 1979, Department of Zoology, University of Wisconsin, Madison

EMPLOYMENT

1979-1985 Assistant Professor, Department of Entomology, Cornell University
1985-1991 Associate Professor, Department of Entomology, Cornell University
1991- 2005 Professor, Department of Entomology, Cornell University
2003- 2005 Professor, Department of Ecology & Evolutionary Biology, Cornell
University
2005 – Emeritus Professor, Cornell University
2005 – Honorary Fellow, University of Wisconsin

PROFESSIONAL ACTIVITIES

Honorary Lectureships and Awards

1977- UW Vilas Fellowship
1978- UW Zoology Departmental Fellowship for outstanding finishing graduate
student
1979 - Elected to Phi Kappa Phi Honorary Society
1980- Elected to Sigma Xi
1982- Nordic Council of Ecology Lecturer, Lund, Sweden
1983- Weese Lecturer, University of Oklahoma
1987- Fulbright Fellowship to conduct research in Germany
1990 and 1992- Rolling Stonefly News award for excellence in research
1993- Visiting Eminent Ecologist, Kellogg Biological Station, Michigan State
University
1999- Cornell College of Agriculture and Life Sciences Professor of Merit Award,
Selected by the Class of 99
2003 - 2004 – SUNY Chancellor’s Award for Excellence in Teaching
2005 – 2007 – National Center for Ecological Analysis and Synthesis; Working Group:
“When, and how much, does fear matter? Quantitatively assessing the impact of
predator intimidation of prey on community dynamics”
2006: Erskine Visiting Fellowship, University of Canterbury, Christchurch, NZ
2007: Award of Excellence, North American Benthological Society

Professional Activities

Environmental Law & Policy Center Science Advisory Council
2006- present
Black Earth Creek Watershed Coalition Board of Trustees

2005 – present
Ecological Society of America:
1981-5- Membership Committee
1994-1887 - Mercer Award Committee
1997-1999 -Honorary Membership Award Committee
Rocky Mountain Biological Laboratory
1982-1992- Board of Trustees
1990-1992- Vice President
North American Benthological Society
1984- Executive Committee
1992, 1996 (Chair) Distinguished Benthologist Committee
2000 – 2002 – Long Range Planning Committee
2002 – 2007 – Hynes Award Committee

Journals and Funding Agencies

1986-7- Associate Editor for Journal of the North American Benthological Society
1987- NSF Workshop on factors controlling community structure and function in tropical and temperate streams
1990 and 1992- Committee of Visitors invited to evaluate the Ecology program of NSF
1991-3- Council for International Exchange of Scholars, Life Sciences Review Panel
1997- 2000 - Associate editor Ecology and Ecological Monographs

RESEARCH INTERESTS

Field studies on the life history, behavior, population and community ecology of stream-dwelling organisms; mechanisms, direct and indirect consequences and evolution of predator-prey and grazer-algal interactions; invertebrates as indicators of stream water quality

EXTERNAL FUNDING

1977-1978: National Academy of Sciences (\$ 1,200) - Interactions among benthic insects within the substrate of stony streams.
1977: Univ. of Wisconsin Zoology Dept. (\$150) - Davis Travel Grant
1977-1978: National Science Foundation (\$3,509) - Dissertation Research: Interactions among benthic invertebrates within the substrate of stony streams
1978: Univ. of Wisconsin (\$204) - Davis Travel Grant
1978: U.S. Trout and Salmon Foundation (\$600) Environmental assessment of Colorado streams.
1979: NSF (\$ 13,982) Postdoctoral fellowship: Mayfly- stonefly interactions- observations within stony streams.
1981: CALS-Cornell: (\$ 5,900) - Development of keys to the aquatic insects of New York State.
1982: Ecosystem Research Center (\$ 2,500) - Biotic interactions or abiotic limitations? A model of lotic community structure.
1983-1985: NSF (\$147,013) - Predator-prey interactions and stream invertebrate community structure
1984: NSF (\$ 7,000) - Dissertation Research (LeeAnne Martinez): Chemoreception in aquatic mayfly and stonefly nymphs and its relationship to predator-prey interactions
1984: CALS-Cornell (\$900) - Scanning electron microscopy of mayfly and stonefly sensory systems.

- 1984: CALS-Cornell (\$6,000) - Control of nuisance caddisflies on the Niagara River.
- 1985: Cornell University Women's Development Fund (\$ 2,000) Preparation for publication of Keys to the NYS Aquatic Invertebrates.
- 1985: CALS-Cornell (\$ 1,000) - Travel grant for study at scientific institutions in foreign countries.
- 1986-1989: NSF (\$209,000) - Role of stonefly predation in stream invertebrate communities
- 1988: CALS book fund (\$5,000) - Preparation of illustrations for Cornell University Press textbook on Freshwater Macroinvertebrates.
- 1989: American Philosophical Society (\$3,000) - Direct and indirect effects of watershed acidification on aquatic insects.
- 1990-1993: NSF (\$260,000) - Causes of selective predation and consequences of predator avoidance by stream-dwelling insects
- 1992: NSF (\$5,000) REU Supplement (Bradley Taylor): Effects of body size on fitness of stoneflies
- 1991-1993: NSF (\$9,000) - Dissertation Research (Peter Ode): The influence of concurrent costs and risks on the foraging behavior of grazing mayflies
- 1992-1994: NSF (\$9,514) - Dissertation Research (Sarah Vance): Direct and indirect effects of mermithid parasites on a stream-dwelling mayfly
- 1994-1997: NSF (\$261,102) - Consequences of larval interactions to mayfly survival, fecundity and population growth
- 1994: NSF (\$12,061) Travel grant from the International Programs Office for sabbatical in Australia
- 1997-2000: NSF (\$200,642) - Collaborative Research: Effects of predators on resource heterogeneity: a behavioral trophic cascade (with A. R. McIntosh)
- 1997: NSF: (\$5,000) - REU (Sean Gross): Effects of habitat on salmonid distributions in Rocky Mountain streams
- 1998-2000: NSF (\$9,000) - Dissertation Research (Chris Caudill): Population dynamics of aquatic insects in beaver ponds: influence of dispersal, behavior and predators
- 2001 – 2005: NSF (\$200,008) - Effects of recruitment and post-recruitment processes on abundance of stream insects: a comparative approach.
- 2001 – 2004: NSF (\$10,300) - Dissertation Research (Kate Macneale): Dispersal within and among stream corridors: implications for the distribution and population structure of stoneflies in the White Mountain National Forest.
- 2001 – 2006 – HATCH grant (\$50,000) Macroinvertebrates as indicators of impacts on stream habitat quality: integrating research, education and outreach
- 2002 – 2004: NSF (\$10,000) - Dissertation Research (Andrea Encalada): Patterns, mechanisms and consequences of oviposition behavior for recruitment of the mayfly, *Baetis bicaudatus*.
- 2002: YSI (\$20,000) - Funding for permanent gauging stations on the East River and Copper Creek at the Rocky Mountain Biological Laboratory
- 2003: NSF (\$6,000) REU (Matthew Harper) - Factors affecting emergence of *Baetis bicaudatus*
- 2003: The Gunnison Angling Society, Chapter of Trout Unlimited (\$4,400) - Support for stream biomonitoring activities at the Rocky Mountain Biological Laboratory
- 2004: NSF (\$6,000) REU (Lisa Marko) – Comparing predator-induced changes in holometabolous and hemimetabolous stream insect life history traits.

- 2004 - 2007: NSF (\$429,695) Acquisition of GIS and GPS Equipment by the Rocky Mountain Biological Laboratory in order to enable High Resolution Spatially Explicit Research and Training (one of several Co-PI's)
- 2006 – 2009: NSF (\$350,000) Collaborative Research: Variation in the strength of cascading trophic interactions across a riverscape (with AR McIntosh)

JOURNAL PUBLICATIONS AND BOOK CHAPTERS

- Peckarsky, B. L. **1979**. Biological interactions as determinants of distributions of benthic invertebrates within the substrate of stony streams. *Limnology and Oceanography* 24:59-68.
- Peckarsky, B. L. **1979**. A review of the distribution, ecology, and evolution of the North American species of *Acronuria* and six related genera (Plecoptera: Perlidae). *Journal of the Kansas Entomological Society* 52:787-809.
- Peckarsky, B. L. **1980**. Predator-prey interactions between stoneflies and mayflies: Behavioral observations. *Ecology* 61:932-943.
- Peckarsky, B. L. **1980**. The influence of detritus upon the colonization of stream invertebrates. *Canadian Journal of Fisheries and Aquatic Science* 37:957-963.
- Peckarsky, B. L. and S. I. Dodson. **1980**. Do stonefly predators influence benthic distributions in streams? *Ecology* 61:1275-1282.
- Peckarsky, B. L. and S. I. Dodson. **1980**. An experimental analysis of biological factors contributing to stream community structure. *Ecology* 61:1283-1290.
- Peckarsky, B. L. **1981**. Reply to comment by Sell. *Limnology and Oceanography* 26:982-987.
- Peckarsky, B. L. and K. Z. Cook. **1981**. The effects of Keystone Mine effluent on colonization of stream benthos. *Environmental Entomology* 10:861-871.
- Peckarsky, B. L. **1982**. Aquatic insect predator-prey relations. *BioScience* 32:261-266.
- Peckarsky, B. L. **1983**. Biotic interactions or abiotic limitations? A model of lotic community structure. pp. 303-323 *In* Fontaine, T. D. III and S. M. Bartell (ed.), *Dynamics of lotic ecosystems*. Ann Arbor Science Publ., Ann Arbor, MI.
- Peckarsky, B. L. **1984**. Predator-prey interactions among aquatic insects. pp. 196-254 *In* Resh, V. H. and D. M. Rosenberg (eds.), *Ecology of aquatic insects*. Praeger Press, NY.
- Peckarsky, B. L. **1984**. Use of behavioral experiments to test ecological theory in streams. pp. 79-97 *In* Barnes, J. R. and G. W. Minshall (eds.), *Stream ecology: Application and testing of general ecological theory*. Plenum Press, NY.
- Peckarsky, B. L. **1984**. Sampling the stream benthos. pp. 131-160 *In* Downing, J. A. and F. H. Rigler (eds.), *A manual on methods for assessing secondary productivity in freshwaters*. IBP Handbook #17, 2nd Ed. Blackwell Scientific Publications.
- Peckarsky, B. L. and M. A. Penton. **1985**. Is predaceous stonefly behavior influenced by competition? *Ecology* 66:1718-1728.
- Peckarsky, B. L. **1985**. Do predaceous stoneflies and siltation affect the structure of stream insect communities colonizing enclosures? *Canadian Journal of Zoology* 63:1519-1530.
- Bukantis, R. T. and B. L. Peckarsky. **1985**. Emergence of adults of *Agneta capitata* and *Acronuria carolinensis* (Plecoptera: Perlidae). *American Midland Naturalist* 114:200-204.
- Peckarsky, B. L. **1986**. Colonization of natural substrates by stream benthos. *Canadian Journal of Fisheries and Aquatic Sciences* 43:700-9.
- Hansen, M. J., S. P. Gloss and B. L. Peckarsky. **1986**. Predator species richness and prey population variability: Effects on diets of benthic stream fishes. *American Midland Naturalist* 115:63-72.
- Peckarsky, B. L. **1987**. Succession, scale, and hypothesis testing in streams: A reply to Fisher. *Canadian Journal of Fisheries and Aquatic Sciences* 44:689-91.
- Peckarsky, B. L. **1987**. Mayfly cerci as defense against stonefly predation: deflection and detection. *Oikos* 48:161-70.

- Peckarsky, B. L. **1988**. Why predaceous stoneflies do not aggregate with their prey. *Verhandlungun Internationale Verein Limnologie* 23:2135-40.
- Peckarsky, B. L. and M. A. Penton. **1988**. *Ephemerella* defensive posture: a "ghost of predation past?" *Oikos* 53:185-93.
- Meyer, J. L. et al. **1988**. Elemental dynamics in streams. *Journal of the North American Benthological Society* 7:410-32.
- Delucchi, C. M. and B. L. Peckarsky. **1989**. Life history adaptations of insects in a temporary stream. *Journal of the North American Benthological Society* 8:308-21.
- Peckarsky, B. L. and M. A. Penton. **1989**. Early warning lowers risk of stonefly predation for a vulnerable mayfly. *Oikos* 54:301-9.
- Peckarsky, B. L. and M. A. Penton. **1989**. Mechanisms of prey selection by stream-dwelling stoneflies. *Ecology* 70:1203-18.
- Peckarsky, B. L. and R. S. Wilcox. **1989**. Stoneflies prefer hydrodynamically conspicuous prey. *Oecologia* 79:265-70.
- Cowan, C. A. and B. L. Peckarsky. **1990**. Feeding of a lotic mayfly grazer as quantified by gut fluorescence. *Journal of the North American Benthological Society* 9:368-378.
- Cooper, S. D., S. J. Walde, and B. L. Peckarsky. **1990**. Prey exchange rates and the impact of predators on prey populations in streams. *Ecology* 71:1503-1514.
- Peckarsky, B. L., S. C. Horn, and B. Statzner. **1990**. Stonefly predation along a hydraulic gradient: a test of the harsh-benign hypothesis. *Freshwater Biology* 24:181-191.
- Peckarsky, B. L. and M. A. Penton. **1990**. Effects of enclosures on stream microhabitat and invertebrate community structure. *Journal of the North American Benthological Society* 9:249-261.
- Peckarsky, B.L. **1991**. A field test of resource depression by predatory stonefly larvae. *Oikos* 61:3-10.
- Peckarsky, B.L. **1991**. Habitat selection by stream-dwelling predatory stoneflies. *Canadian Journal of Fisheries and Aquatic Sciences* 48:1069-1976.
- Peckarsky, B. L. **1991**. Mechanisms of intraspecific interference between stream-dwelling stonefly larvae. *Oecologia* 85:521-529.
- Peckarsky, B. L. and C. A. Cowan. **1991**. Consequences of larval intraspecific interference to stonefly growth and fecundity. *Oecologia* 88:277-288.
- Peckarsky, B. L. **1992**. Is there a coevolutionary arms race between predators and prey? A case study. In: Menon, J. (Ed.) *Trends in Ecology*. Council of Scientific Research Integration. Trivandrum, India.
- Peckarsky, B.L., C.A. Cowan, M.A. Penton, and C. Anderson. **1993**. Sublethal consequences of predator-avoidance by stream-dwelling mayfly larvae to adult fitness. *Ecology* 74:1836-1846.
- Moreira, G.P. and B.L. Peckarsky. **1994**. Multiple developmental pathways of *Agneta capitata* (Plecoptera: Perlidae) in a temperate forest stream. *Journal of the North American Benthological Society* 13:19-29.
- Peckarsky, B.L., C.A. Cowan, and C. Anderson. **1994**. Consequences and plasticity of specialized predatory behavior of stream-dwelling stonefly larvae. *Ecology* 75:166-181.
- Cowan, C. A. and B. L. Peckarsky. **1994**. Diel feeding and positioning periodicity of a grazing mayfly in a trout stream with and a fishless stream. *Canadian Journal of Fisheries and Aquatic Sciences* 51:450-459.
- Dodson, S, T.A. Crowl, B.L. Peckarsky, L.B. Kats, A.P. Covich, and J.M. Culp. **1994**. Non-visual communication in freshwater benthos and zooplankton. *Journal of the North American Benthological Society* 13:268-282.
- Kerans, B. L., B. L. Peckarsky, and C. R. Anderson. **1995**. Estimates of mayfly mortality: is stonefly predation a significant source? *Oikos* 74:315-323.

- Peckarsky, B.L. and C.A. Cowan. **1995**. Microhabitat and activity periodicity of predatory stoneflies and their mayfly prey in a western Colorado stream. *Oikos* 74:513-521.
- McIntosh, A.R. and B.L. Peckarsky. **1996**. Differential behavioural responses of mayflies from stream with and without fish to trout odour. *Freshwater Biology* 35:141-148.
- Peckarsky, B. L. **1996**. Predator-prey interactions. Chapter 20 (pp. 431-451) In: R. Hauer and G. Lamberti (eds.) *Methods in Stream Ecology*, Academic Press, NY.
- Peckarsky, B. L. **1996**. Alternative predator avoidance syndromes in stream-dwelling mayflies. *Ecology* 77:1888-1905.
- Vance, S. A. and B. L. Peckarsky. **1996**. The infection of nymphal *Baetis bicaudatus* (Ephemeroptera) by the mermithid nematode *Gasteromermis* sp. *Ecological Entomology* 221:377-381.
- Zanatelle, B. and B.L. Peckarsky. **1996**. Stoneflies as ecological engineers -- hungry predators reduce fine sediments in stream beds. *Freshwater Biology* 36:569-578.
- Peckarsky, B. L. **1997**. Macroinvertebrates as indicators of stream habitat degradation. Pp. 37-40 in: *Streamkeepers. Aquatic Insects as Biomonitors*. Xerces Society, Portland, OR.
- Peckarsky, B. L., S. D. Cooper, and A. R. McIntosh. **1997**. Extrapolating from individual behavior to populations and communities in streams. *Journal of the North American Benthological Society* 16:375-390.
- Vance, S. A. and B. L. Peckarsky. **1997**. The effect of mermithid parasitism on predation of nymphal *Baetis bicaudatus* (Ephemeroptera) by invertebrates. *Oecologia* 110:147-152.
- Peckarsky, B. L. **1998**. The dual role of experiments in complex and dynamic natural systems. pp. 311-423 in: Resetarits, W. J. Jr. and J. Bernardo (eds). *Experimental Ecology. Issues and Perspectives*. Oxford Univ. Press.
- Peckarsky, B. L. and A. R. McIntosh. **1998**. Fitness and community consequences of avoiding multiple predators. *Oecologia* 113:565- 576.
- McPeck, M. A. and B. L. Peckarsky. **1998**. Life histories and the strengths of species interactions: combining mortality, growth and fecundity effects. *Ecology* 79:235-247.
- Taylor, B. W, C. R. Anderson, and B.L. Peckarsky. **1998** Effect of size at metamorphosis on stonefly fecundity, longevity, and reproductive success. *Oecologia*. 114:494-502.
- McIntosh, A. R. and B. L. Peckarsky. **1999**. Criteria determining behavioural responses to multiple predators by a stream mayfly. *Oikos* 85:554-564.
- McIntosh, A. R., B. L. Peckarsky and Brad W. Taylor. **1999**. Rapid size-specific changes in mayfly drift caused by alterations in fish odour . *Oecologia* 118:256-264.
- Anderson, C. R, B. L. Peckarsky, and S. A. Wissinger. **1999**. Tinajas of southeastern Utah. Invertebrate reproductive strategies and the habitat templet. pp. 791-810 in: Batzer, D. P, R. B. Rader, and S. A. Wissinger (eds.). *Invertebrates in freshwater wetlands of North America*. John Wiley & Sons, Inc, NY.
- Taylor, B. W, C. R. Anderson, and B.L. Peckarsky. **1999**. Egg diapause and semivoltinism in the Nearctic stonefly *Megarctys signata* (Plecoptera: Perlodidae). *Aquatic Insects* 21:179-185.
- Peckarsky, B. L, B. W. Taylor, and C. C. Caudill. **2000**. Hydrologic and behavioral constraints on oviposition of stream insects: implications for adult dispersal. *Oecologia* 125:186-200.
- Lytle, D. A. and B. L. Peckarsky. **2001**. Spatial and temporal impacts of a diesel fuel spill on stream invertebrates. *Freshwater Biology* 46:1 - 12.
- Peckarsky, B. L., B. W. Taylor, A. R. McIntosh, M. A. McPeck and D. A. Lytle. **2001**. Variation in mayfly size at metamorphosis as a developmental response to risk of predation. *Ecology* 82:740-757.

- Taylor, B. W., A. R. McIntosh and B. L. Peckarsky. **2001.** Sampling stream invertebrates using electroshocking techniques: implications for basic and applied research. *Canadian Journal of Fisheries and Aquatic Science* 58:1-9.
- Peckarsky, B. L., A. R. McIntosh, B. R. Taylor and J. Dahl. **2002.** Predator chemicals induce changes in mayfly life history traits: a whole-stream manipulation. *Ecology* 83:612-618.
- Macneale, KH, GE Likens and BL Peckarsky. **2002.** Feeding strategies of an adult stonefly (Plecoptera): implications for egg production and dispersal. *Verhandlungun Internationale Verein Limnologie* 28(2):1140-1146.
- Dahl, J and B. L. Peckarsky. **2002.** Induced morphological defenses in the wild: predator effects on a mayfly, *Drunella coloradensis*. *Ecology* 83:1620-1634.
- Peckarsky, B. L., A. R. McIntosh, C. C. Caudill and J. Dahl. **2002** Stabilizing selection on male body size of high altitude populations of *Baetis bicaudatus* (Ephemeroptera: Baetidae). *Behavioral Ecology and Sociobiology* 51:530-537.
- Taylor, B. W., A. R. McIntosh, and B. L. Peckarsky. **2002.** Large-scale invertebrate manipulations in stream ecosystems: invertebrate removal, algal response, and opportunities for innovation. *Limnology and Oceanography* 47:893-899.
- McIntosh, A. R., B. L. Peckarsky, and B. W. Taylor. **2002.** The influence of predatory fish on mayfly drift: extrapolating from experiments to nature. *Freshwater Biology* 47 (8):1497-1513.
- Caudill, C. C. and B. L. Peckarsky. **2003.** Lack of appropriate behavioral or developmental responses by mayfly larvae to trout predators. *Ecology* 84:2133-2144.
- Dahl, J and B. L. Peckarsky. **2003.** Developmental responses to predation risk in morphologically defended mayflies. *Oecologia* 137:188-194.
- Dahl, J. and B. L. Peckarsky. **2003.** Does living in streams with fish involve a cost of induced morphological defenses? *Canadian Journal of Zoology* 81:1825-1828.
- Hughes, J. M., P. B. Mather, M. Hillyer, C. Cleary and B. L. Peckarsky. **2003.** Genetic structure in a montane mayfly *Baetis bicaudatus* (Ephemeroptera: Baetidae), from the Rocky Mountains, Colorado. *Freshwater Biology* 12:2149-2162.
- Macneale, K. H., B. L. Peckarsky, and G. E. Likens. **2004.** Contradictory results from different methods for measuring direction of insect flight. *Freshwater Biology* 49:1260-1268.
- McIntosh, A. R, B. L. Peckarsky, and B. W. Taylor. **2004.** Predator-induced resource heterogeneity in a stream food web. *Ecology* 85:2279-2290.
- McIntosh, A. R. and B. L. Peckarsky. **2004.** Are mayfly anti-predator responses to fish odor proportional to risk? *Archiv für Hydrobiologie* 160:145-151.
- Peckarsky B.L., J. M. Hughes, M. Hillyer, and A. C. Encalada. **2004.** Are populations of mayflies living in adjacent fish and fishless streams genetically distinct? *Freshwater Biology* 50: 42-51.
- Álvarez, M. and B. L. Peckarsky. **2005.** How do grazers affect periphyton heterogeneity in streams? *Oecologia* 142: 576 – 587.
- Harper, M. P. and B. L. Peckarsky. **2005.** Effects of pulsed and pressed disturbances on the benthic invertebrate community following a coal spill in a small stream in northeastern USA. *Hydrobiologia* 544:241-247.
- Macneale K. H., B. L. Peckarsky, and G. E. Likens. **2005.** Stable isotopes identify dispersal patterns of a stonefly. *Freshwater Biology* 50:1117-1130.

- Harper, M. P. and B. L. Peckarsky. **2006.** Emergence cues of a mayfly in a high altitude stream ecosystem: Implications for consequences of climate change. *Ecological Applications* 16:612-621.
- Encalada, A. C. and B. L. Peckarsky. **2006.** Selective oviposition by the mayfly *Baetis bicaudatus*. *Oecologia* 148:526-537.
- Peckarsky, B. L. **2006.** Predator-prey interactions. Chapter 24 In: R. Hauer and G. Lamberti (eds.) *Methods in Stream Ecology*, Academic Press, NY. Second edition.
- Encalada, A. C. and B. L. Peckarsky. **2007.** A comparative study of the cost of alternative mayfly oviposition behaviors. *Behavioral Ecology and Sociobiology* 61:1437-1448.

PAPERS ACCEPTED FOR PUBLICATION OR IN PRESS:

- Encalada, A. C. and B. L. Peckarsky. The influence of recruitment on the population dynamics of the mayfly *Baetis bicaudatus* in fish and fishless streams. In revision for *Ecology*.
- Orrock, J. L., J. H. Grabowski, J. H. Pantele, S. D. Peacor, B. L. Peckarsky, E. L. Preisser, A. Sih and E. E. Werner. Consumptive and non-consumptive effects of predators on metacommunities of competing prey. In Revision for Special Feature in *Ecology*.
- Peacor, S. D., B. L. Peckarsky, G. C. Trussell, and J. R. Vonesh. A graphical framework to predict and elucidate nonlethal predator effects on prey. In Revision for Special Feature *Ecology*.
- Peckarsky, B. L., B. L. Kerans, A. R. McIntosh and B. W. Taylor. The influence of predation on prey population dynamics in open systems. In Revision for *Oecologia*.
- Peckarsky, B. L., D. A. Bolnick, L. M. Dill, J. H. Grabowski, B. Luttbeg, J. L. Orrock, S. D. Peacor, E. L. Preisser, O. J. Schmitz and G.C. Trussell. Revisiting the Textbooks: Considering non-consumptive effects in textbook examples of predator-prey interactions. In Revision for Special Feature in *Ecology*.
- Schmitz, O. J., J. H. Grabowski, B. L. Peckarsky, E. L. Preisser, G. C. Trussell and J. R. Vonesh. From individuals to ecosystem function: toward an integration of evolutionary and ecosystem ecology. In Revision for Special Feature in *Ecology*.
- Wilcox, A, B. L. Peckarsky, B. W. Taylor and A. C. Encalada. Linkages between hydraulics, geomorphic processes, and mayfly drift in high-gradient streams. In Revision for *Freshwater Biology*.

SUBMITTED MANUSCRIPTS IN REVIEW

- Encalada, A. C. and B. L. Peckarsky. Low egg mortality as a benefit of specialized oviposition behavior in the mayfly, *Baetis bicaudatus*. Submitted to *Freshwater Biology*.
- Encalada, A. C. and B. L. Peckarsky. Large-scale manipulation of mayfly recruitment affects population size. Submitted to *Ecology Letters*.
- Orrock, J. L., L. M. Dill, J. H. Grabowski, S. D. Peacor, B. L. Peckarsky, E. L. Preisser, A. Sih and E. E. Werner. Remote control of prey communities by predators. Submitted to *Ecology Letters*.
- Peckarsky, B. L. J. D. Allan, A. R. McIntosh and B. W. Taylor. 2007. Understanding the role of predation in open systems: the value of place-based research. In: Ian A. Billick and Mary V. Price, Editors. *The Biology of Place: Natural History and Understanding Nature*. University of Chicago Press.
- Taylor, B. W, E. H. Bernhardt, and B. L. Peckarsky. Regulation of stream primary production at local and regional spatial scales. Submitted to *Oecologia*.

BOOKS

- Peckarsky, B. L., S. I. Dodson and D. J. Conklin. 1985. A key to the aquatic insects of streams in the vicinity of the Rocky Mountain Biological Lab. including chironomid larvae from streams and ponds. Colorado Division of Wildlife. 47 pp.
- Peckarsky, B. L., P. Fraissinet, M. A. Penton, and D. J. Conklin, Jr. 1990. Freshwater macroinvertebrates of Northeastern North America. Cornell University Press, Ithaca, NY. 442 pp.

THESES

- Peckarsky, B. L. 1971. A biological approach to environmental education -- a curriculum. Master's thesis, University of Wisconsin. 184 pp.
- Peckarsky, B. L. 1979. Experimental manipulations involving the determinants of the spatial distribution of benthic invertebrates within the substrate of stony streams. Ph.D. Thesis, University of Wisconsin, Madison. 269 pp.

REPORTS

- Peckarsky, B. L. 1976. The effects of the proposed East River Plan on the water quality of the East River. pp. 33-36 In Biologically significant areas in Gunnison County, Colorado. Report published for the Gunnison County Commissioners and the Gunnison County Planning Commission by the Rocky Mountain Biological Laboratory at Gothic.
- Archbald, D. and B. L. Peckarsky. 1972. Manual for student development of a school environmental information clearinghouse. Impressions, Inc. Madison, Wisconsin. 8 pp.

BOOK REVIEWS

- Thompson, Coldrey & Bernard. The Pond. Oxford Scientific Films. Quarterly Review of Biology 60:100 (1985).
- Feder, M. E. and G. V. Lauder (eds.), Predator-prey relationships. Perspectives and approaches from the study of lower vertebrates. J. NABS 6:81-3 (1987).
- Pennak, R. W. Fresh-water invertebrates of the United States. Third Edition. Wiley Interscience. Freshwat. Biol. 25:555-556. (1991).
- Bonta, M. M. Women in the field. America's pioneering women naturalists. Texas A&M University Press. College Station. J. NY Entomol. Soc. (1992)
- Ward, J.V. A guide to the mountain stream insects of Colorado. Quarterly Review of Biology 68:609-610. (1993)
- Wiggins, G. B. Larvae of the North American caddisfly genera (second edition). University of Toronto Press. Quarterly Review of Biology 71:590. (1996)

PUBLISHED ABSTRACTS

- American Society of Limnology and Oceanography (1977, 1988)
Ecological Society of America (1979, 1981, 1984, 1997, 2001, 2005)
Entomological Society of America (1981, 1983) Eastern Branch (1983)
International Congress of Systematic and Evolutionary Biology (1985)
North American Benthological Society (annually since 1976)

SABBATICALS

- 1987- Department of Zoology, University of Canterbury, Christchurch, NZ (funded by NSF)
- 1987- Zoologisches Institut, Karlsruhe, Germany (funded by a Fulbright Fellowship)

- 1994 - Department of Ecology and Evolutionary Biology, Monash University, Victoria, Australia (funded by NSF)
 2003 – Development of a database of invertebrates in streams of Central New York (Funded by HATCH)

INVITED SEMINARS

- 2007-2008: Department of Biology, University of Wisconsin, Eau Claire
 Department of Biological Sciences, Dartmouth College
- 2006-2007: Department of Biology, Duke University
 Department of Biology, University of Canterbury, Christchurch, NZ
 Department of Education, University of Wisconsin
- 2005-2006: Department of Biology, University of Pittsburgh
 Center for Limnology, University of Wisconsin
 Department of Zoology, University of Wisconsin
 Department of Entomology, Penn State University
- 2004-2005: Adirondack Field Museum
 Department of Entomology, Cornell University
 Department of Ecology and Evolutionary Biology, Cornell University
- 2003-2004: Institute of Insect Science, University of Arizona
 Rocky Mountain Biological Laboratory
- 2002-2003: Department of Biology, Ithaca College
- 2001–2002: Department of Zoology, University of Wyoming
 Department of Entomology, Fisheries and Wildlife, Colorado State University
- 2000-2001: Department of Biology, Montana State University
 Department of Zoology, University of Maryland
 Department of Entomology, University of Georgia
- 1999-2000: Department of Ecology and Evolution, University of Chicago
 Department of Entomology, University of California, Davis
- 1998-9: Department of Entomology, Texas A & M University
 Department of Ecology and Evolution, Dartmouth College
- 1997-8: Department of Zoology, University of Toronto
 Department of Environmental and Forest Biology, SUNY Syracuse
- 1996-7: Department of Ecology and Evolution, Utah State University
 Department of Biology, University of Windsor
 Department of Environmental and Forest Biology, Syracuse University
- 1995-6: Department of Zoology, Ohio State University
 Department of Fisheries and Wildlife, Colorado State University
 Department of Biology, St. Lawrence University, Canton, NY
- 1994-5: Department of Biology, University of British Columbia, Vancouver
 Department of Entomology, University of Georgia
 Entomology Department, Cornell Agricultural Experiment Station, Geneva, NY
- 1993-4: Biology Department, Hobart and William Smith College, Geneva, NY
 Department of Biology, Deacon University, Melbourne, Australia
 Department of Ecology and Evolutionary Biology, Monash University, Melbourne, Australia
 Department of Zoology, University of Tasmania, Hobart
 Department of Biology, University of New England, Armidale, Australia
 CSIRO, Canberra, Australia
 ARC, Albury, New South Wales, Australia

- Department of Biology, James Cook University, Townsville, Australia
 Biology Department, Allegheny College, Pennsylvania
 Department of Entomology, Cornell University
- 1992-93: Department of Zoology, University of Wisconsin, Madison
 Department of Zoology, Arizona State University
 Department of Zoology, University of New Hampshire
 Rocky Mountain Biological Laboratory
- 1991-92: Department of Entomology, University of Illinois
- 1990-91: Department of Biology, University of Delaware
 Department of Entomology and the Kansas Biological Survey,
 University of Kansas
 Department of Zoology, Duke University
 Department of Biology, Concordia University, Montreal
- 1989-90: Department of Entomology, University of Massachusetts
 Department of Biology, University of Michigan
 Department of Biology, SUNY, Buffalo
 Department of Entomology, Cornell University
- 1988-89: Department of Biology, Vassar College
 Department of Zoology, Ohio State University
 Institute of Ecosystem Studies, Milbrook, NY
 Rocky Mountain Biological Laboratory
- 1987-8: Department of Entomology, Geneva Station, Cornell University
 Department of Biology, Swarthmore
 Department of Biology, Fordham University
 Department of Biology, Colgate University
 Savannah River Ecology Laboratory
 Section of Ecology and Systematics, Cornell University
 Department of Entomology, Cornell University
- 1986-7: Department of Zoology, University of Canterbury, Christchurch, New
 Zealand
 Department of Zoology, University of Toronto, Erindale Campus
 Department of Biological Sciences, University of California, Santa
 Barbara
 Department of Limnology, University of Innsbruck, Innsbruck, Austria
 Limnologische Institut des Uni KN, Konstanz, Federal Republic of
 Germany
 Biological Station, Lunz, Austria
- 1985-6: Department of Biology, SUNY, Binghamton
- 1984-5: Department of Biology, Lehigh University
 Zoology Department, University of Vermont
 Rocky Mountain Biological Laboratory
- 1983-4: Department of Entomology, Cornell University
 Department of Natural Resources, Cornell University
- 1982-3: Division of Natural Sciences and Mathematics and Women in Science,
 Colgate University
 Department of Zoology, University of Oklahoma
 Department of Zoology, University of Calgary
 Department of Zoology, University of Maryland
 Department of Ecology and Evolution, SUNY, Stony Brook
 Department of Biology, University of North Carolina
 Wildlife Society, Cornell University
- 1981-2: Departments of Entomology and Zoology, Oregon State University

- Scripps Oceanographic Institute
Undergraduate Entomology Seminar Series, Cornell University
- 1980-1: Department of Biology, Marist College, Poughkeepsie
Department of Biology, University of New Mexico
Department of Ecology and Evolutionary Biology, University of Arizona
- 1979-80: Department of EPO Biology, University of Colorado
Rocky Mountain Biological Laboratory
Section of Neurobiology and Behavior, Cornell University
Department of Entomology, Cornell University
Department of Natural Resources, Cornell University
- 1978-9: Department of Biological Sciences, University of California, Santa Barbara
Department of Biology, Notre Dame University
School of Natural Resources, University of Michigan
Department of Entomology, Cornell University

Invited Symposia and Workshops

- 2005: Ecological Society of America: workshop on how to be successful in Ecology
- 2000: North American Benthological Society: symposium on context dependency in stream ecology
- 1995: American Society of Zoologists, symposium on experimentation in ecology
- 1995: Savannah River Ecology Laboratory, symposium on innovative ideas in stream ecology
- 1995: Bridgeport, NY, Workshop on methods for teaching aquatic resources education
- 1994: Victoria Society of Limnologists, Melbourne, Australia
- 1993: North American Benthological Society, symposium on larval-adult interactions
- 1992: Cooperative Extension, Cornell University, Water Quality Workshop, Biological indicators of surface water quality
- 1988: Behavior Symposium, University of Toronto
- 1987: Workshop on factors controlling community structure and function in tropical and temperate streams. Flathead Lake Biological Station.
- 1986: North American Benthological Society. Predator-prey interactions.
- 1985: International Congress of Systematic and Evolutionary Biology, Sussex University, Brighton, England. Evolution of predator-prey systems.
- 1985: (Delivered by LeeAnne Martinez): Ecological Society of America, University of Minnesota. Use of behavioral techniques in ecological studies.
- 1984: Ecological Society of America, Colorado State University, Ft. Collins, CO. Predator-prey interactions.
- 1983: (Delivered by LeeAnne Martinez): Entomol. Soc. Amer., Detroit, MI, Chemical interactions between predators and prey.
- 1983: Eastern Branch Entomol. Soc. meetings, Providence, RI. Predation effects on stream community structure.
- 1981: Ecological Society of America, Bloomington, IN. The importance of invertebrate predators in structuring stream insect communities.
- 1980: Graduate Field of Ecology & Evolutionary Biology, Panel discussion on careers in Ecology for the Graduate Student Symposium
- 1980 - 2005: Annual Graduate Student Symposium- Ecology and Evolutionary Biology

TEACHING

At Cornell University

(http://www.entomology.cornell.edu/Faculty_Staff/Peckarsky/Peckarsky2.htm)

Stream Ecology, alternate years 1991 - 2004
Freshwater Invertebrate Biology, Annually 1980 – 1990, alternate years 1992
- 2002

Seminar in Aquatic Ecology, alternate years 1981 - 2004
Seminar on Aquatic Insect Physiology, 1982

At Rocky Mountain Biological Laboratory

Winter 1987-8, Winter ecology of streams
Summer 1979, Environmental Impact Studies

INVITED GUEST LECTURES

At Cornell University

1997: Stream conservation - Environmental Conservation
1996: Stream conservation - The Environment
1995: Stream conservation - Environmental Conservation
1993: Stream insects- Introductory Biology
1993: Riparian effects on streams-- Landscape Architecture
1989 - 1999: Aquatic insect ecology -- Introduction to Fisheries
1987: Aquatic insects of interest to fly fishermen -- Cultural Entomology
1983 - 1992: Stream ecology -- Limnology
1984: Community structure of aquatic insects -- Communities and Ecosystems
1982: Sampling animal populations -- Population Biology
1980-2: Aquatic Entomology for undergraduate majors

At the University of Wisconsin, Madison

2005: Guest instructor for Zoology 955, graduate seminar on “Opportunities and
Expectations”
2006: Guest lectures on Competition, Disturbance, Drift and Predation for Stream
Ecology
2006: Guest laboratories on stream invertebrate biology

At Rocky Mountain Biological Laboratory (summers)

2002: Aquatic Entomology
2001: Stream Ecology
1987, 1986: Environmental impact of a local problem -- Stressed Ecosystems
1984 - 1991: Stream Ecology -- Rocky Mountain Field Ecology Institute
1983, 1984, 1985, 1988: Aquatic Insects -- Entomology Course
Occasionally from 1981: Stream ecology for field biology classes

Other campuses

2006: Freshwater Ecosystems, University of Canterbury, NZ (9 Lectures)
1997: Aquatic Insect Respiration, SUNY Syracuse
1994: The River Continuum Concept, Allegheny College
1994: Predator-prey interactions in streams, Hobart and William Smith
1994: Predator-prey interactions in streams: Monash University, Melbourne,
Australia
1982: Lecturer in Nordic Council of Ecology Course on Aquatic predator-prey
systems. University of Lund, Sweden.
1980: Lecture on predator-prey interactions in streams for Aquatic Ecology
class at Wells College, Aurora, NY (Professor Thomas Vawter).
1978: Aquatic Insects. Limnology Course, University of Wisconsin, Madison
(Professor John Magnuson).

1977-1979: Stream Ecology. Introductory Ecology Course, University of Wisconsin, Madison (Professor Stanley Dodson).

POSTDOCTORAL ASSOCIATES

Alvarez, Maruxa, 2004 - 2006
Dahl, Jonas, 1998- 2000
McIntosh, Angus R., 1995-7
Batzer, Darold, 1992-4
Flecker, Alexander S., 1990-91, 1992-4
Kerans, Billie L., 1989-90
Smith, Bruce P., 1982-4

SABBATICAL VISITORS

Wissinger, Scott A., 1990-1991
Ward, James V., 1982-3

GRADUATE MAJORS – Cornell University

Bukantis, Robert T., M.S., 1983. Comparative studies on the ecology of two sympatric stoneflies *Phasganophora capitata* and *Acroneuria carolinensis*.
Kratz, Kim W., 1983-1985, Ph.D. program, 2 yrs, continued at UCSB
Martinez, LeeAnne, Ph.D., 1987. Sensory mechanisms underlying the predator-prey interaction between perlodid stonefly nymphs and their mayfly prey.
Delucchi, Carla M., Ph.D., 1988. A comparison of community structure, life histories and movement patterns of benthic macroinvertebrates between permanent and temporary streams.
Moreira, Gilson, Ph.D. 1992. Reproductive biology of the stream-dwelling stonefly *Agnatina capitata* (Pictet) (Plecoptera: Perlidae)
Vance, Sarah, Ph.D. 1996. The effect of mermithid parasitism on the behavior and ecology of its mayfly host.
Rango, Jessamy J., MS 1997. Aquatic insect communities associated with the Northern Pitcher Plant.
Lytle, David A, Ph. D. 2000. Disturbance regimes and life history evolution.
Bernhardt, Emily, Ph. D. 2001. Nutrient demand and nitrogen processing in streams of the Hubbard Brook Experimental Forest.
Ode, Peter, R., Ph.D. 2002. The role of competition in the foraging ecology of two herbivorous stream mayflies.
Anderson, Chester R. MS 2002. Tinajas of southern Utah: reproductive strategies and the habitat template
Caudill, Christopher C., Ph. D. 2002. Metapopulation biology of the mayfly *Callibaetis ferrugineus hageni* in high-elevation beaver ponds.
Watson, Wendy, 2002. Non-thesis MS degree.
Macneale, Kate, Ph. D. 2003. Life history and dispersal of a stonefly, *Leuctra ferruginea* (Plecoptera; Leuctridae), in the Hubbard Brook Experimental Forest, New Hampshire
Encalada, Andrea, Ph.D, 2005. Patterns, mechanisms, and consequences to population dynamics of selective oviposition by *Baetis bicaudatus* (Ephemeroptera: Baetidae)

Current Graduate Majors – University of Wisconsin

Fuller, Matthew (MS) – Zoology, beginning Fall 2006

MINOR STUDENTS

Completed theses

Álvarez, Maruxa (Ph.D), Univ. of Vigo, Spain (External Reviewer) - 2004
 Anholt, Bradley (M.S.), Univ. of Calgary (External Reviewer) - 1982
 Baird, Owen (MS) - Natural Resources - 2000
 Barker, Heather (MS) – Natural Resources - 2000
 Chrisman, Beth (Ph. D.) – Ecology and Evolutionary Biology 2000
 Dorworth, Carol (M.S.), Natural Resources - 1984
 Edgerly, Janice (Ph.D.), Entomology - 1985
 Evans, Richard (M.S.), Natural Resources - 1987
 Forrester, Graham (Ph.D.)- Zoology, University of New Hampshire-1992
 Galbreath, Gregory (MS)- Natural Resources 1994
 Gerould, Sarah (Ph.D.), Natural Resources - 1985
 Goforth, Reuben (Ph. D) - Natural Resources - 1999
 Hansen, Michael (M.S.), Natural Resources - 1983
 Kain, Susan (Ph.D.) - Neurobiology and Behavior - 1998
 Kaminski, John (Ph. D.) Ecology and Evolutionary Biology (failed 1983)
 Kratz, Kim W. (Ph.D.) - University of California, Santa Barbara 1997
 Lewis, Greg (Ph.D.) - Ecology and Evolutionary Biology - 1997
 Mayer, Marilyn (M.S.), Ecology and Evolutionary Biology - 1986
 McIntyre, Peter (Ph. D) – Ecology and Evolutionary Biology - 2006
 Mitchell, David (Ph.D.), Ecology and Evolutionary Biology - 1985
 Mullens, Bradley (Ph.D.), Entomology - 1982
 Raveret, Monica (Ph.D.), Neurobiology and Behavior - 1987
 Remsburg, Alysa (Ph.D) – Zoology, University of Wisconsin - 2007
 Robertson, Martha (M.S.), Environmental Education - 1982, Ph.D. - 1985
 Sobczak, William (Ph. D) - Ecology and Evolutionary Biology - 1998
 Spence, Brian (M.S.), Natural Resources - 1988
 Strayer, David (Ph.D.), Ecology and Evolutionary Biology - 1984
 Suren, Alastair (Ph. D.)- University of Canterbury, New Zealand- 1992
 Tarrant, Christine (Ph.D.), Entomology - 1983
 Tjossem, Sara (M.S.), Ecology and Evolutionary Biology - 1989
 Van Offelen, Henry (M.S.) - Natural Resources - 1990
 Vasquez, Maria (M. S.) – Monash University, Australia (External) - 1998
 Walde, Sandra (Ph.D) – University of Calgary (External reviewer) - 1985
 Ward, Jessica (Ph. D) – Ecology and Evolutionary Biology - 2005
 Warren, Dana (M. S.) – Natural Resources 2002
 Weaver, Scott (M.S.), Entomology - 1982
 Weik, Andy (MS) - Natural Resources- 1994

Current advisees at Cornell University

Booth, Michael (Ph. D) – Ecology and Evolutionary Biology
 Daley, Bryon (Ph. D.) - Ecology and Evolutionary Biology
 Donlon, Josh (Ph. D.) – Ecology and Evolutionary Biology
 Moslemi, Jennifer (Ph. D) – Ecology and Evolutionary Biology

Current advisees at the University of Wisconsin

Katrina Butkas (PhD) – Center for Limnology
 Sarah Foltz (MS) – Department of Zoology

Advisees at other Institutions

Benjamin Koch (PhD) – University of Wyoming

UNDERGRADUATE ADVISEES (*completed undergraduate honors theses at Cornell)

Buecke, Kyle
Burnett, Susan
Chabot, Louis
Cohen, Myra
Colles, Rebecca
Fishel, Chris
Hardy, Nate
*Harper, Matthew (Cornell Presidential Research Scholar)
Hornby, Gregory
*Huang, Ming
Jenkins, Andrew
*Keats, Rachel
Manka, Michale
McLennon, Alison
McMahon, Nicole
Moore, Lindsay
*Napolitano, Joseph
O'Hara, Colleen
Ryan, Steven
Sendziak, Keith
*Smith, Kevin
Spragg, James
*Svenson, Gavin
Taisey, Allison
*Taylor, Alani
*Taylor, Bradley
Vargas, Vanessa
Walcott, Sam
Wells, Theresa

NSF REU students mentored at the Rocky Mountain Biological Lab

Gross, Sean (1996 & 1997)
Harper, Matthew (2003)
Marko, Lisa (2004)
Stone, Nicole (2007)
Taylor, Bradley (1992)

Independent Study Students

I have advised an average of 2 independent study students per year for 28 years at either Cornell or RMBL.

OTHER PROGRAMS INVOLVING UNDERGRADUATES AT CORNELL

Faculty Fellow for Ecology House – 1991 - 2002
Faculty Advisor for Cornell Women's Lacrosse Team – 1999 - 2005
Biological Sciences Explorations – “Bugging Water Quality” – every semester since inception of the program until 2005

CORNELL COMMITTEES

Entomology Departmental

Curriculum Committee, 1986-1989, Chair 1987-1989, 1994- 2005
Undergraduate Advising Coordinator, 1986-1989, 2001 - 2005
Undergraduate Honors Coordinator, 1983-6, 1994- 2005

Interactions Committee, chair, 1994- 6
Acting Chair, fall 1990, fall 1995
Graduate Faculty Representative, 1989-92
Executive Committee, 1986-92, 1995- 98
Awards Committee, 1985-6
Building Dedication Committee, 1985-6
Jugatae (Grad. Students in Entomology) advisor, 1980-4
Seminar Coordinating Committee - chairperson, 1981-4
Sexual Harassment Committee - chairperson, 1981-4, 1989
Thesis Option Committee, 1980

All Campus at Cornell

Campus Creek Advisory Committee – 2001 - 2005
Cornell Plantations Natural Areas Committee – 1990 – 2005
Faculty Council of Representatives, 1981-4 (Physical Education Committee)
Cornell Experimental Ponds Evaluation Committee, 1981-4
Equal opportunity committee to identify qualified professional women, 1981
Committee of Cornell Limnologists, 1982-4
Search Committee - Medical Entomologist, Department of Entomology,
1989-90
Search Committee - Fisheries Biologist, Dept. of Natural Resources, 1983
Search Committee - Limnologist, Section of Ecology & Systematics, 1983-5
Search Committee - Invertebrate Zoologist, Ecology & Systematics, 1984-6

PROFESSIONAL SOCIETIES

American Society of Limnology and Oceanography
Ecological Society of America
North American Benthological Society
Rocky Mountain Biological Laboratory
Societas Internationalis Limnologiae

JOURNALS FOR WHICH I REVIEW MANUSCRIPTS

American Midland Naturalist
The American Naturalist
Archiv für Hydrobiologie
Behavioral Ecology and Sociobiology
The Biologist
Canadian Journal of Fisheries and Aquatic Sciences
Canadian Journal of Zoology
Ecological Society of America (abstracts)
Ecology and Ecological Monographs
Evolution
Florida Entomologist
Freshwater Biology
Hydrobiologia
Journal of Freshwater Ecology
Journal of Insect Behavior
Journal of the Kansas Entomological Society
Journal of the New York Entomological Society
Journal of the North American Benthological Society
Limnology and Oceanography
Oikos
Oecologia

Science
Southwestern Naturalist
Transactions of the American Fisheries Society

BOOK CHAPTER REVIEWS

Cole, G. A. 1983. Limnology, Mosby (Chapter on Stream Ecology)
Fontaine, T.D. II & S.M. Bartell. 1983. Dynamics of Lotic Ecosystems. Ann Arbor Science (Chapter 16)
Matthews, W. J. Community and Evolutionary Ecology of North American Stream Fishes. Univ. Oklahoma Press. (one chapter)
Hutchinson, G. E. Treatise on Limnology (4th volume) -- chapters on aquatic insects.
Thorp, J. H. and A. P. Covich. Ecology and Taxonomy of Freshwater Invertebrates -- chapter on aquatic insects.

INSTITUTIONS FOR WHICH I REVIEW GRANT PROPOSALS

Center for the Environment - Cornell University
Council for the International Exchange of Scholars
Fish and Wildlife Service, US Department of Interior
HATCH, Cornell University
Hudson River Foundation
National Geographic Society
National Research Council
National Science Foundation
Organization for Tropical Studies
United States-Israel Binational Science Foundation

ENVIRONMENTAL CONSULTING

2005-7: High Country Citizens Alliance; Coal Creek Coalition – Monitoring of Coal Creek and tributaries during clean-up of abandoned mining spoils (Peanut Mine and Standard Mine: An EPA Superfund site) (pro bono)
2001: Cornell University Environmental Engineering – Effects of expansion of a parking lot on Cascadilla Creek, Ithaca, NY (pro bono)
2000 – 4: Cornell University Grounds Department – Effects of gravel removal on habitat quality of Cascadilla Creek, NY (pro bono)
1999 – 2000: Fisher Mining Company, Pennsylvania. Effects of manganese on stream organisms
1999 - 2000: EcoLogic – Effects of organic enrichment on tributaries of Onondaga Lake, NY.
1999: NY DEC – Effects of a coal spill on the invertebrates of the Cayuga Inlet, Ithaca, NY (pro bono)
1997 – 1998: NY DEC – Effects of a diesel oil spill on the invertebrates of the Cayuga Inlet, Ithaca, NY (pro bono)
1997: NY DEC – Effects of a gasoline spill on the invertebrates of Fall Creek, Ithaca, NY (pro bono)
1996: Town of Ithaca: Effects of riparian restoration on invertebrates of Cascadilla Creek, NY (pro bono)
1995: Cornell University Environmental Engineering – Effects of an abandoned refuse site on Cascadilla Creek, Ithaca, NY (pro bono)
1994: Town of Ithaca: Effects of repair of water main on the invertebrates of Cascadilla Creek, NY (pro bono)

- 1993: Cornell University Environmental Engineering – Comments on Generic EIS for expansion of the University into the Cornell Orchards area (pro bono)
- 1992: POWER, Gunnison, Colorado – Potential effects of water abstraction from high elevation streams (pro bono)
- 1991: Cornell University Environmental Engineering – Effects of silt removal on Fall Creek, Ithaca NY (pro bono)
- 1985: Cornell University Environmental Engineering - Effects of a chemical treatment plant in Ithaca, NY on the receiving streams (pro bono)
- 1976 – present: Rocky Mountain Biological Laboratory – Long term biological monitoring of streams in the Upper East River drainage basin – (pro bono)