

CURRICULUM VITA

BRUCE VONDRACEK

Minnesota Cooperative Fish and Wildlife Research Unit
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EDUCATION

Ph.D. Ecology, University of California, Davis, 1981. Dissertation: The energetics of the Tahoe sucker, *Catostomus tahoensis*, in cyclic and constant temperatures.

M.S. Zoology, University of Wisconsin, Madison, 1977. Thesis: Characteristics of suckers in Green Bay and Lake Michigan with special reference to white suckers.

B.S. Zoology, with honors, University of Wisconsin, Madison, 1974.

PROFESSIONAL EXPERIENCE

University of Minnesota

Assistant Unit Leader-Fisheries, Minnesota Cooperative Fish and Wildlife Research Unit, 1991-present

Adjunct Professor, Department of Fisheries and Wildlife, and Conservation Biology 2002-present

Adjunct Associate Professor, Department of Fisheries and Wildlife, and Conservation Biology 1994-2001

Adjunct Assistant Professor, Department of Fisheries and Wildlife and Conservation Biology Program, 1991-1994

The Ohio State University

Assistant Unit Leader-Fisheries, Ohio Cooperative Fish and Wildlife Research Unit, 1988-1991

Assistant Professor, Department of Zoology, 1988-1991

Adjunct Assistant Professor, School of Natural Resources, 1989-1991

University of California, Davis

Postgraduate Researcher, Wildlife and Fisheries Biology, 1981-1987

Research Biologist/Assistant, Wildlife and Fisheries Biology, 1977-1981

University of Wisconsin, Madison

Research Assistant, Department of Zoology, Center for Limnology, 1975-1977

Specialist, Department of Zoology, Center for Limnology, 1974-1975

Laboratory Assistant, Department of Zoology, Center for Limnology, 1974

TEACHING EXPERIENCE

Mid-Career Teaching Program: 10 week program sponsored by Center for Teaching and Learning Services, University of Minnesota, 1999

University of Minnesota

Graduate courses:

FW8465 Fish Habitats and Restoration (taught alternate years, since 1993)

NRES5002 Restoration of Aquatic Ecosystems (taught alternate years, 1993-2003)

Graduate Seminars:

FW8200 How to excel in graduate school, 2003, 2004

FW8200 Developing indicators of environmental results in agricultural systems, 2003

FW8200 Riparian systems, water quality, and aquatic communities, 1999

FW8200 Human use of fishes, 1996

FW8200 Biological indicators in aquatic ecosystems, 1995

FW8200 Techniques for Improving Scientific Presentations, 1992

The Ohio State University

Graduate course:

NR/ZOO665 Research Techniques in Fish Biology, 1990

Graduate seminars:

ZOO881 The Lake Erie Ecosystem, 1990

ZOO881 Mark-recapture methods, 1989

University of California, Davis

Undergraduate course:

WFB130 Physiological Ecology of Wildlife, 1987

Teaching Assistant:

WFB121 Fish Physiology, 1981

WFB10 Introductory Wildlife and Fisheries Biology, 1980

WFB122 Dynamics of exploited animal populations, 1978, 1979

AWARDS AND HONORS

Honorable mention for poster presented at 131th Annual meeting of the American Fisheries Society, 2001

Special Recognition Award, Minnesota Chapter of the American Fisheries Society, 2000

Best Paper Award, Ohio Chapter, American Fisheries Society, 1990

Jastro Shields Graduate Research Award, University of California, 1978

Distinguished Scholar Award, University of California, 1977

B.S. with honors, University of Wisconsin, 1974

PROFESSIONAL SOCIETIES

American Fisheries Society
Minnesota Chapter of the American Fisheries Society
North American Benthological Society

PUBLICATIONS (refereed)

- Petersen, A. and B. Vondracek. Vegetative buffer strips around sinkholes to improve water quality. (Accepted by the Journal of Soil and Water Conservation).
- Zimmerman, J. K. H. and B. Vondracek. Interactions between slimy sculpin and a native versus a nonnative trout: consequences for growth. *Canadian Journal of Fisheries and Aquatic Sciences* 63:1526-1535.
- Zimmerman, J. K. H. and B. Vondracek. Stream enclosure effects on drifting invertebrates and fish growth: do enclosure experiments produce biased results? *Journal of the North American Benthological Society* 25:453-464.
- Laudon, M., B. Vondracek, and J. K. H. Zimmerman. Prey selection by trout in a spring-fed stream: terrestrial versus aquatic invertebrates. *Journal of Freshwater Ecology* 20:723-733.
- Vondracek, B., K. L. Blann, C. B. Cox, J. A. Frost Nerbonne, K. G. Mumford, B. A. Nerbonne, L. A. Sovell, and J. K. H. Zimmerman. Land use, spatial scale, and stream systems: lessons from an agricultural region. *Environmental Management* 36:775-791.
- Westra, J. V., J. K. H. Zimmerman, and B. Vondracek. 2005. Economic and Environmental Benefits of Select Agriculture Best Management Practices. *Journal of American Water Resources Association* 41:309-322.
- Boody, G., B. Vondracek, D. Andow, M. Krinke, J. Westra, J. Zimmerman, and P. Welle. 2005. Multifunctional agriculture in the United States. *BioScience* 55:27-38.
- Westra, J. V., J. K. H. Zimmerman, and B. Vondracek. 2004. Do conservation practices and programs benefit the intended resource concern? *Agricultural and Resource Economics Review* 33:105-120.
- Ruetz, C.R., III, B. Vondracek, and R. M. Newman. 2004. Top-down control in a algal-based food web: slimy sculpin, grazers, and periphyton. *Journal of the North American Benthological Society* 32:271-286.
- Vondracek, B., J. K. H. Zimmerman, and J. V. Westra. 2003. Setting an effective TMDL for suspended sediment: an assessment of sediment loading and effects of suspended sediment on fish. *Journal of the American Water Resources Association* 39:1005-1015.
- Zimmerman, J. K. H., B. Vondracek, and J. V. Westra. 2003. Agricultural land use effects on sediment loading and fish assemblages in two Minnesota (USA) watersheds. *Environmental Management* 32:93-105.
- Meneks, M. L., B. Vondracek, and J. Hatch. 2003. Larval fish distribution in relation to physical and chemical factors in the Red River of the North. *Journal of Freshwater Ecology* 18:141-154.
- Ruetz, C. R., III, A. L. Hurford, and B. Vondracek. 2003. Interspecific interaction between brown trout and slimy sculpin: competition and facilitation. *Transactions of the American Fisheries Society* 132:611-618.
- Nerbonne, J. A. and B. Vondracek. 2003. Volunteer macroinvertebrate monitoring: assessing training needs through examining error and bias in untrained volunteers. *Journal of the North American Benthological Society* 22:152-163.

- Ruetz, C. R. III, R. M. Newman, and B. Vondracek. 2002. Top-down control in a detrital-based food web: fish, shredders, and leaf breakdown. *Oecologia* 132:307-315.
- Grant, G.C., B. Vondracek and P.W. Sorensen. 2002. Spawning interactions between sympatric brown and brook trout may contribute to species replacement. *Transactions of the American Fisheries Society* 131:569-576.
- Blann, K.L., Nerbonne, J.F., and B. Vondracek. 2002. Relationship of riparian buffer type to physical habitat and stream temperature. *North American Journal of Fisheries Management* 22:441-451.
- Runstrom, A.L, B. Vondracek, and C.A. Jennings. 2001. The population dynamics of paddlefish in the lower Wisconsin River. *Transactions of the American Fisheries Society* 130:546-556.
- Nerbonne, B.A. and B. Vondracek. 2001. Effects of land use on benthic macroinvertebrates and fish in the Whitewater River, Minnesota. *Environmental Management* 28:87-99.
- Sovell, L.A., B. Vondracek, J.A. Frost, and K.G. Mumford. 2000. Impacts of rotational grazing and riparian buffers on physicochemical and biological characteristics of southeastern Minnesota streams. *Environmental Management* 26:629-641.
- Pothoven, S.A, B. Vondracek, and D.L. Pereira. 1999. An evaluation of the indirect effects of flouridone on the fish communities of two Minnesota lakes. *North American Journal of Fisheries Management* 19:748-757.
- Sovell, L.A. and B. Vondracek. 1999. Evaluation of the fixed count method for Rapid Bioassessment Protocol III with benthic macroinvertebrate metrics. *Journal of the North American Benthological Society* 18:420-426.
- Anderson, D.J. and B. Vondracek. 1999. Insects as indicators of land use in three ecoregions in the Prairie Pothole Region. *Wetlands* 19:648-664.
- Vondracek, B., B.D. Giese, and M.G. Henry. 1996. Energy density of three fishes from Lake Superior. *Journal of Great Lakes Research* 22:757-764.
- Vondracek, B. and D.J. Degan. 1995. Among- and within-transect variability in estimates of shad abundance made with hydroacoustics. *North American Journal of Fisheries Management* 15:933-939.
- Van Den Avyle, M.J., J. Boxrucker, P. Michaletz, B. Vondracek, and G. Ploskey. 1995. Comparison of catch rate, length distribution, and precision of six gears used to sample reservoir shad populations. *North American Journal of Fisheries Management* 15:948-955.
- Boxrucker, J., P. Michaletz, M. Van Den Avyle, and B. Vondracek. 1995. Overview of gear evaluation study for sampling reservoir shad populations. *North American Journal of Fisheries Management* 15:885-890.
- Parrish, D.L., B. Vondracek, and W.J. Eckmayer. 1994. Accuracy and precision of daily age estimates for walleyes from Ohio hatcheries and Lake Erie. *Transactions of the American Fisheries Society* 123:601-605.
- Vondracek, B. and D.R. Longanecker. 1993. Habitat selection by rainbow trout *Oncorhynchus mykiss* in a California stream: implications for the instream flow incremental methodology. *Ecology of Freshwater Fish* 2:173-186.
- Knight, R.L. and B. Vondracek. 1993. Changes in the size-structure and abundance of forage fishes in western Lake Erie, 1969-1988, as related to walleye predation. *Canadian Journal of Fisheries and Aquatic Sciences* 50:1289-1298.

- Hartman, K.J., B. Vondracek, D.L. Parrish, and K.M. Muth. 1992. Diets of emerald and spottail shiner and potential interactions with other western Lake Erie zooplanktivorous fishes. *Journal of Great Lakes Research* 18:43-50.
- Hayward, R.S., F.J. Margraf, D.L. Parrish, and B. Vondracek. 1991. Low-cost field estimation of yellow perch daily ration. *Transactions of the American Fisheries Society* 120:589-604.
- Baltz, D. M., B. Vondracek, L. R. Brown, and P. B. Moyle. 1991. Seasonal changes in microhabitat selection by rainbow trout in a small stream. *Transactions of the American Fisheries Society* 120:166-176.
- Vondracek, B., J. J. Cech, Jr., and R. L. Buddington. 1989. Growth, growth efficiency, and digestive efficiency of the Tahoe sucker in cyclic and constant temperature. *Environmental Biology of Fishes* 24:151-156.
- Vondracek, B., D.M. Baltz, L.R. Brown, P.B. Moyle. 1989. Spatial, seasonal, and diel distribution of fishes in a California reservoir dominated by native fishes. *Fisheries Research* 7:31-53.
- Vondracek, B., W.A. Wurtsbaugh, and J.J. Cech, Jr. 1988. Growth and reproduction of the mosquitofish, *Gambusia affinis*, in relation to temperature and ration level: Consequences for life history. *Environmental Biology of Fishes* 21:45-57.
- Botsford, L.W., B. Vondracek, T. Wainwright, A. Linden, R. Kope, D. Reed, and J.J. Cech, Jr. 1987. Population development of the mosquitofish, *Gambusia affinis*, in rice fields. *Environmental Biology of Fishes* 20:143-154.
- Baltz, D.M., B. Vondracek, L.R. Brown, P.B. Moyle. 1987. Influence of temperature on microhabitat choice by fishes in a California stream. *Transactions of the American Fisheries Society* 116:12-20.
- Vondracek, B. 1987. Digestion and gastric evacuation rates in relation to temperature of the Sacramento squawfish, *Ptychocheilus grandis*. *Fisheries Bulletin* 85:159-163.
- Cech, J.J., Jr., M.A. Massingill, B. Vondracek, and A. Linden. 1985. Respiratory metabolism of mosquitofish, *Gambusia affinis*: I. Effects of temperature and dissolved oxygen. *Environmental Biology of Fishes* 13:297-307.
- Moyle, P.B. and B. Vondracek. 1985. Persistence and structure of a fish assemblage in a small California stream. *Ecology* 66:1-13.
- Marrin, D., D.C. Erman, and B. Vondracek. 1984. Food availability, food habits and growth of the Tahoe sucker (*Catostomus tahoensis*) from a reservoir and natural lake. *California Fish and Game* 70:4-10.
- Moyle, P.B., B. Vondracek, and G.D. Grossman. 1983. Responses of fish populations in the North Fork of the Feather River, California, to treatments with fish toxicants. *North American Journal of Fisheries Management* 3:48-60.
- Vondracek, B., J.J. Cech, Jr., and D.R. Longanecker. 1982. Effects of cycling and constant temperature on the respiratory metabolism of the Tahoe sucker, *Catostomus tahoensis*, (Pisces: Catostomidae). *Comparative Biochemistry and Physiology* 73A:11-14.
- Vondracek, B., L.R. Brown, and J.J. Cech, Jr. 1982. Comparison of age, growth, and feeding of the Tahoe sucker, *Catostomus tahoensis*, from Sierra Nevada streams and a reservoir. *California Fish and Game* 67:36-46.
- Vondracek, B. and J.J. Cech, Jr. 1980. A preliminary study of stream fish respiration in cycling temperatures and its potential influence on growth rates. *Cal-Neva Wildlife Transactions* 1980:22-26.

BOOK CHAPTERS, SYMPOSIA, PROCEEDINGS

- Ulrich, J. B., U. B. Singh, B. N. Wilson, M. J. Kocian, and B. Vondracek. 2006. Analysis of stream health indicators for Total Maximum Daily Load (TMDL) assessment in Minnesota. Proceedings of the Annual International meeting of the American Society of Agricultural and Biological Engineers, Paper number 062331, Portland, Oregon, 9-12 July 2006.
- Singh, U. M. Kocian, B. Wilson, A Bolton, J. Nieber, B. Vondracek, J. Perry, and J. Magner. 2005. Analyzing Indicators of Stream Health for Minnesota Streams. Pages 570-576. *in* Proceedings of the Third Conference on Watershed Management to Meet Water Quality Standards and Emerging TMDLs. March 5-9, 2005, Atlanta, Georgia. American Society of Agricultural Engineers, St. Joseph, MI.
- Westra, J. J. K. H. Zimmerman, and B. Vondracek. 2003. Potential Economic and Environmental Effects of Select Conservation Programs of the 2002 Farm Bill. Proceedings of a workshop Linkages Between Agricultural and Conservation Policies, 10-11 June, Portsmouth, New Hampshire. Published as NERC RD Regional Rural Development Paper no. 21, available at the NERC RD website:
<http://www.cas.nercrd.psu.edu/>www.cas.nercrd.psu.edu/>
- Westra, J., J. K. H. Zimmerman, and B. Vondracek. 2003. Economic and environmental benefits of mandated agricultural best management practices. Symposium Proceedings of the American Water Resources Association 2003 Spring Specialty Conference. 12-14 May, Kansas City, Missouri. (INVITED).
- Vondracek, B., K.L. Blann and B. A. Nerbonne. 2001. Habitat-fish relationships across local to watershed scales. pp.7-22. *In*: R. DuBois, K. Kayle, M. Ebbers, and S. Turner, editors. Trout and the trout angler: Workshop II. American Fisheries Society, North Central Division, Salmonid Technical Committee, St. Paul, Minnesota.
- Vondracek, B., L.A. Sovell, and J.A. Frost. 1998. Impacts of Rotational Grazing and Riparian Buffer Strips on the Physicochemical Characteristics and Biological Communities of Southeastern Minnesota Streams. Proceedings of the 23rd Annual Minnesota Forage Conference.
- Vondracek, B., W.A. Wurtsbaugh, and J.J. Cech, Jr. 1980. Mass-marking of *Gambusia*: preliminary results. Proceedings of the California Mosquito and Vector Control Association 48:43-46.

MANUSCRIPTS SUBMITTED FOR PUBLICATION

- Westrick, M., B. Vondracek, J. A. Perry, and L. C. Ferrington. Multivariate versus a multimetric approach: how do they compare? (To be submitted to Freshwater Biology following revision).
- Zimmerman, J. K. H. and B. Vondracek. Brown trout and food web interactions in a Minnesota stream. (Submitted following revision to Freshwater Biology).
- Zimmerman, J. K. H. and B. Vondracek. Interactions between sculpin and trout: slimy sculpin growth and diet in relation to native and nonnative trout. (Submitted to the Transactions of the American Fisheries Society).

MANUSCRIPTS IN PREPARATION

- Blann, K. L., J. Anderson, G. Sands, and B. Vondracek. Effects of agricultural subsurface drainage on aquatic ecosystems: a review. To be submitted to *Critical Reviews in Environmental Science and Technology*.
- Blann, K. L. and B. Vondracek. Fish distribution in relation to spatial scale: lessons from southeastern Minnesota. (To be submitted to the *Transactions of the American Fisheries Society*).
- Frost Nerbonne, J. A. and B. Vondracek. Macroinvertebrate monitoring as a tool for measuring the effects of riparian land use in the Wells Creek watershed. (Currently in revision following friendly review to be submitted to *Journal of the North American Benthological Society*).
- Frost Nerbonne, J. A., B. Ward, A. Ollila, M. Williams, and B. Vondracek. Volunteer Sampling Bias Using Multihabitat Sampling for Macroinvertebrates. (Currently in friendly review to be submitted to the *Journal of the North American Benthological Society*).
- Vondracek, B., J. Stucker, and F. Cuthbert. Macroinvertebrate Communities and Riparian Physical Habitats of Southeastern Minnesota. (To be submitted to *Oecologia*).

BOOK REVIEW

- Vondracek, B. 1990. Ecology and Evolution of Livebearing Fishes. *Fisheries* 15(3):69-70.

PUBLICATIONS (non refereed)

- Driscoll, M. and B. Vondracek. 2000. Annotated bibliography on riparian grazing. http://www.landstewardshipproject.org/pr/03/newsr_030121.html
- Blann, K.L. and B. Vondracek. 1998. Stream fish distribution, community structure, and habitat in relation to land use, geology, and geomorphology in southeastern Minnesota. *In: Research and monitoring in the Cannon River Watershed: a compilation of surface water and related resource studies*. Cannon River Watershed Partnership.
- Phifer, P., W. Cunningham and B. Vondracek. 1997. Urban growth and environmental protection: Searching for balance at Eagle Creek. *University of Minnesota, Center for Urban and Regional Affairs* 27:1-7.
- Vondracek, B. and K.W. Gobelet. 1982. Analysis of fish remains from archaeological site 13DK27, Dickenson County, Iowa, indicates seasonal use. *In The Arthur Site (13DK27): a multi-component woodland habitation on the shore of East Lake Okoboji, Iowa.* (editor) J.A. Tiffany. *Research Papers* v.7 n.1 Office of the State Archaeologist of Iowa. Iowa City.

OUTREACH PUBLICATIONS/VIDEOS

- Vondracek, B. and many others. 1998. Participated (co-edited) in the development of a video titled "From the Ground Up" in conjunction with the Land Stewardship Project, the Minnesota Institute for Sustainable Agriculture and Sustainable Farming Association of Minnesota.

Vondracek, B. and many others. 1998. Coordinated development of a manual and co-authored a chapter in "The Monitoring Tool Box." Published by the Land Stewardship Project. The manual has been widely distributed; >800 copies have been requested.

FUNDING

University of Minnesota

Minnesota Riparian Management Study: comparison of effects on stream habitat and fish nine years after harvest treatments. Minnesota Department of Natural Resources \$18,000, US Forest Service \$10,450, and National Council for Air and Stream Improvement \$20,000. Co-Principal Investigator: Ray Newman. 2006.

Integrated Water Resource Management: Bridging knowledge gaps to achieve common TMDL goals. Water Resources Center, University of Minnesota. \$10,000. Several Co-Principal Investigators. 2006.

Evaluating Riparian Timber Harvesting Guidelines: Phase II. Legislative Committee on Minnesota Resources. \$333,000. Several Co-Principal Investigators. 2005.

Mortality of Walleye Caught in Live-Release Tournaments: Assessment, Reduction, and Determination of Acceptable Levels. Minnesota Department of Natural Resources. \$253,144. Co-Principal Investigator: David Fulton. 2005.

Evaluating Riparian Timber Harvesting Guidelines: 2005 Bridge Funding. Minnesota Forest Resource Council \$11,000. Several Co-Principal Investigators. 2005.

Effects of riparian forest harvest on instream habitat and fish and invertebrate communities. Funding: Minnesota Department of Natural Resources. \$37,500. Co-Principal Investigator: Ray Newman, 2004.

Effects of biotic and physical heterogeneity on trophic interactions in headwater streams. Funding: USGS Cooperative Research Units. \$5,000, 2004.

Stream classification for TMDL assessment using a dimensionless, reference reach approach. Funding: USEPA. \$769,590. Co-Principal Investigators: Jim Perry, John Nieber and Bruce Wilson, 2003.

Quantifying the Variability of Stream Health Indicators for TMDL Assessment. Funding: Minnesota Pollution Control Agency. \$129,016. Co-Principal Investigators: Bruce N. Wilson, John L Nieber, Gary Sands, and Jim Perry, 2003.

Effects of biotic and physical heterogeneity on trophic interactions in headwater streams. Funding: USGS Cooperative Research Units. \$5,000, 2003.

Effects of riparian forest harvest on instream habitat and fish and invertebrate communities. National Institutes for Water Resources and Minnesota Department of Natural Resources. \$84,878. Co-Principal Investigators: Raymond M. Newman and James A. Perry, 2002.

Effects of biotic and physical heterogeneity on trophic interactions in headwater streams. \$77,656. Cargill Fellowship and USGS, 2001.

Constraints and Opportunities for Quality Trout Angling Experiences in Southeastern Minnesota with David Fulton. \$117,996. Minnesota Department of Natural Resources, 2000.

Modeling the environmental impacts of farming systems in two watersheds in Minnesota. \$16,155. Land Stewardship Project, 2000.

- A literature review on the effects of animal agriculture on water resources. \$7,500. Co-Principal Investigator: Jim Perry, Forest Resources, University of Minnesota. Part of broader initiative with D.J. Mulla, S. Goyal, C. Alexander, G. Randall, G. Sands, and J. Linn at the University of Minnesota and B. Wheeler of the Minnesota Department of Health, 1999.
- Citizen monitoring: Can widely-used protocols discriminate benthic communities in relation to land management changes? \$4,100. Department of Fisheries and Wildlife Research Assistant grant, 1998.
- Larval fish populations on tributaries of the Red River. \$57,350. Minnesota Department of Natural Resources. Co-Principal Investigator: Jay Hatch, 1998..
- Stream fish distribution and habitat in relation to land use, geology, and geomorphology in southeastern Minnesota. \$44,000. Minnesota Department of Natural Resources, 1997.
- Biological monitoring to evaluate management intensive grazing. \$22,516. National Fish and Wildlife Foundation. Co-Principal Investigator: George Boody, 1997.
- Fish and invertebrate communities in the Whitewater River watershed: a GIS based examination of land use effects. \$6,700. Minnesota Pollution Control Agency, Nonpoint Source Section, Water Quality Division, 1997.
- Trophic cascade interactions in a coldwater stream. \$88,000, 1997.
- Effect of land use, sediment, and temperature on the distribution of benthic invertebrates and fish in the Whitewater River Watershed. \$43,741. Minnesota Pollution Control Agency, Nonpoint Source Section, Water Quality Division. Co-Principal Investigator: Neal Mundahl, Winona State University, 1996.
- Anurans and invertebrates as indicators of wetland condition in the North Dakota Prairie Pothole Region. \$121,286. National Biological Service. Co-Principal Investigators: David E. Andersen, Francesca Cuthbert, and Ralph W. Holzenthal, 1995.
- An evaluation of the indirect effects of fluridone on the fish communities of two Minnesota lakes. \$20,400 (project extension). Minnesota Department of Natural Resources, 1994.
- Biological, Financial, and Social Monitoring to Develop Highly Sustainable Farming Systems. \$10,500. Minnesota Institute of Sustainable Agriculture. Funding 1994-1995. Co-Principal Investigator: George Boody, 1994.
- Population dynamics of paddlefish in the lower Wisconsin River. \$20,730. U.S. Fish and Wildlife Service, 1993.
- An evaluation of the indirect effects of fluridone on the fish communities of two Minnesota lakes. \$30,209. Minnesota Department of Natural Resources, 1993.
- Factors affecting the low density of adult smallmouth bass in the Cloquet River, Minnesota. \$39,589. Electric Power Research Institute, 1993.
- Caloric density of salmonine prey fishes in Lake Superior. \$37,500. Minnesota Department of Natural Resources, 1992.
- Microhabitat use, energetics, growth and behavior of stream trout. \$78,000. Austen Cargill Fellowship, 1992.

The Ohio State University

- Factors affecting walleye and yellow perch distribution and diet in the central basin of Lake Erie. \$345,548. Ohio Department of Natural Resources, 1990.

Physico-chemical effects of zebra mussel, *Dreissena polymorpha*, on the spawning habitat and egg hatchability of walleye, *Stizostedion vitreum vitreum*. \$6,100. Ohio Department of Natural Resources, 1990.

Gastric evacuation of yellow perch. \$23,338. Ohio Department of Natural Resources, 1990.

Population dynamics and ecology of Lake Erie gizzard shad. \$75,173. Ohio Department of Natural Resources, 1990.

Construction of a research vessel for the Fairport Harbor Fishery Research Station. Continuation of original grant in 1988 total: \$615,725. Ohio Department of Natural Resources, 1989.

Initiation of a Fairport Harbor Fishery Research Station. \$64,154. Ohio Department of Natural Resources, 1988.

In capacity as Assistant Unit Leader of the Ohio Cooperative Fish and Wildlife Research Unit at The Ohio State University, I was Co-principal investigator for four projects (\$290,435) in 1988, three projects (\$298,230) in 1989, and four projects (\$223,827) in 1990.

University of California, Davis

Microhabitat selection, distribution, and abundance of rainbow trout in the Pit River. \$35,000. California following a flow increase. Pacific Gas and Electric, 1987.

Food habits, distribution, and abundance of juvenile fishes in Clear Lake, California following the introduction of threadfin shad. \$8,000. Lake County Mosquito Abatement District, 1986.

Distribution and abundance of northern California fishes. \$10,000. U.S. Forest Service. Co-Principal Investigator: Peter B. Moyle, 1985.

Microhabitat selection by rainbow trout in the Pit River, California. \$125,000. Pacific Gas and Electric. Co-Principal Investigator: Peter B. Moyle, 1985.

Predator-prey interactions of Sacramento squawfish and juvenile chinook salmon at Red Bluff Diversion Dam, California. \$28,000. California Department of Water Resources. Co-Principal Investigator: Peter B. Moyle, 1982.

Biology of Sacramento squawfish in the Sacramento River. \$28,000. California Department of Water Resources. Co-Principal Investigator: Peter B. Moyle, 1981.

Growth and reproduction of mosquitofish. California Mosquito and Vector Control Association. Co-Principal Investigators: Joseph J. Cech, Jr. and Wayne A. Wurtsbaugh, 1980.

Jastro Shields university-wide competitive graduate student grant. \$1,500, 1979.

University of Wisconsin

Life history characteristics of white sucker in Lake Michigan and Green Bay. Sea Grant third year funding, 1977.

Life history characteristics of white sucker in Lake Michigan and Green Bay. Sea Grant second year funding, 1976.

Life history characteristics of white sucker in Lake Michigan and Green Bay. Sea Grant, initial year of a five year proposal. Co-Principal Investigators: John J. Magnuson and Ross A. Horrall, 1975.

PRESENTATIONS

- Blann, K., J. Anderson, G. Sands, and B. Vondracek. 2006. Ecology of agricultural drainage. Symposium of the Chesapeake Research Consortium on Improved Management of Agricultural Drainage Ditches for Water Quality Protection, College Park, Maryland, 22-23 August 2006. (INVITED)
- Kocian, M., B. Vondracek, and C. Sanocki. 2006. Using a GIS to Estimate Stream Physical Characteristics. 26th Annual ESRI International User Conference. San Diego, California, 7-11 August 2006. (POSTER)
- Ulrich, J. B., U. B. Singh, B. N. Wilson, M. J. Kocian, and B. Vondracek. 2006. Analysis of stream health indicators for Total Maximum Daily Load (TMDL) assessment in Minnesota. Proceedings of the Annual International meeting of the American Society of Agricultural and Biological Engineers, Paper number 062331, Portland, Oregon, 9-12 July 2006.
- Kocian M., C. Sanocki, B. Vondracek. 2006. Comparing Geographic Information System Stream Slope Methods to Field Measurements in Minnesota. U.S. Geological Survey Sixth Biennial Geographic Information Science Workshop (USGS GIS 2006), 24-28 April, Denver, Colorado
- Vondracek, B., D. Atuke, N. Schlessler, and R. Newman. Effects of riparian forest harvest on aquatic systems in northern Minnesota. 1st Minnesota Natural Resources Conference, Brainerd, Minnesota 1-2 March 2006.
- Singh, U., J. Ulrich, P. Van Buren, B. Wilson, M. Kocian, J. Perry, B. Vondracek, J. Magner, and G. Johnson. Total Maximum Daily Load (TMDL) research at the University of Minnesota. 1st Minnesota Natural Resources Conference, Brainerd, Minnesota 1-2 March 2006. (POSTER)
- Kocian, M., B. Vondracek, and C. Sanocki. 2006. Using a GIS to estimate stream geomorphic characteristics. 1st Minnesota Natural Resources Conference, Brainerd, Minnesota 1-2 March 2006. (POSTER)
- Kocian, M. U. Singh, B. Wilson, and B. Vondracek. 2005. Uncertainty in stream gradient estimation in TMDL. Minnesota Water 2005 and Annual Water Resources Joint Conference, Brooklyn Center, Minnesota, 25-26 October.
- Singh, U., J. Ulrich, B. Wilson, M. Kocian, B. Vondracek, J. Magner, and G. Johnson. 2005. Analysis of stream data for TMDL assessment. Minnesota Water 2005 and Annual Water Resources Joint Conference, Brooklyn Center, Minnesota, 25-26 October.
- Atuke, D. M., R. M. Newman, and B. Vondracek. 2005. Evaluating the effects of riparian forest harvest on macroinvertebrate communities and water quality in northern Minnesota. Minnesota Water 2005 and Annual Water Resources Joint Conference, Brooklyn Center, Minnesota, 25-26 October. (POSTER)
- Kocian, M., C. Sanocki, B. Vondracek, and B. N. Wilson. 2005. Evaluating variability in stream slope estimates using GIS. 15th Annual meeting of the Minnesota GIS/LIS Consortium Conference and Workshops, St. Cloud, MN, 3-5 October.
- Zimmerman, J.K.H. and B. Vondracek. 2005. Interactions between trout and sculpin: sculpin growth and diet in relation to native versus nonnative trout. 135th annual meeting of the American Fisheries Society, Anchorage, Alaska, 11-15 September. (INVITED)
- Vondracek, B. 2005. Modeling and assessment of conservation practices and effects on aquatic ecosystems in farmed landscapes. USGS Science Workshop, Environmental effects of agricultural practices. Denver, Colorado, 14-16 June 2005. (INVITED)

- Zimmerman, J.K.H. and B. Vondracek. 2005. Interactions between trout and sculpin: consequences of trout introductions for a native fish. 53rd annual meeting of the North American Benthological Society, New Orleans, Louisiana, 23-27 May.
- Atuke, D. M., N. J. Schlessler, B. Vondracek, and R. M. Newman. 2005. Variability in response of instream habitat and fish and macroinvertebrate assemblages to riparian forest harvest in northern Minnesota. 53rd annual meeting of the North American Benthological Society, New Orleans, Louisiana, 23-27 May. (POSTER)
- Zimmerman, J.K.H. and B. Vondracek. 2005. Interactions between trout and sculpin: effects of native versus nonnative trout on sculpin growth and diet. Joint annual meeting of the Minnesota Chapters of the American Fisheries Society and the Society for Conservation Biology, Grand Rapids, Minnesota, 14-16 March. (BEST STUDENT PRESENTATION)
- Atuke, D. M., R. M. Newman, B. Vondracek, and N. J. Schlessler. 2005. Effects of riparian forest harvest on instream habitat, water quality and macroinvertebrate communities in northern Minnesota. Joint annual meeting of the Minnesota Chapters of the American Fisheries Society and the Society for Conservation Biology, Grand Rapids, Minnesota, 14-16 March.
- Petersen, A. and B. Vondracek. 2005. Potential effects and costs of a sinkhole buffers in southeastern Minnesota: Conservation in karst. Joint annual meeting of the Minnesota Chapters of the American Fisheries Society and the Society for Conservation Biology, Grand Rapids, Minnesota, 14-16 March.
- Schlessler, N. J., R. M. Newman, B. Vondracek, and D. M. Atuke. 2005. Effects of riparian forest harvest on instream habitat and fish assemblages in northern Minnesota. Joint annual meeting of the Minnesota Chapters of the American Fisheries Society and the Society for Conservation Biology, Grand Rapids, Minnesota, 14-16 March.
- Schlessler, N. J., D. M. Atuke, R. M. Newman, and B. Vondracek. 2005. Effects of riparian forest harvest on instream habitat and fish assemblages in northern Minnesota. Joint annual meeting of the Minnesota Chapters of the American Fisheries Society and the Society for Conservation Biology, Grand Rapids, Minnesota, 14-16 March. (POSTER)
- Singh, U., M. Kocian, A. Bolton, B. Wilson, J. Nieber, B. Vondracek, J. Perry, and J Magner. 2005. Analyzing Indicators of Stream Health for Minnesota Streams. 3rd Conference on Watershed Management to Meet Water Quality Standards and Emerging TMDLs, Atlanta, Georgia. 5-10 March.
- Schlessler, N., D. Atuke, B. Vondracek, and R. Newman. 2004. Effects of riparian forest harvest on habitat and fish assemblages in northern Minnesota. 65Th annual Midwest Fish and Wildlife Conference, Indianapolis, Indiana. 13-15 December. (POSTER)
- Vondracek, B. and K. L. Blann. 2004. Landscape and site factors affecting brook trout distribution. 134th annual meeting of the American Fisheries Society, Madison, Wisconsin, 22-26 August. (INVITED)
- Vondracek, B. 2004. Influences of agricultural practices on water quality and native aquatic communities in the Midwest. 134th annual meeting of the American Fisheries Society, Madison, Wisconsin, 22-26 August. (INVITED)
- Zimmerman, J. K. H. and B. Vondracek. 2004. Stream enclosure effects on drifting invertebrates and fish growth: do enclosure experiments produce biased results? 134th annual meeting of the American Fisheries Society, Madison, Wisconsin, 22-26 August.

- Williams, M. A. and B. Vondracek. 2004. Geospatial characteristics of karst springs in southeast Minnesota. 134th annual meeting of the American Fisheries Society, Madison, Wisconsin, 22-26 August.
- Williams, M. A. and B. Vondracek. 2004. Geospatial spring identification in southeast Minnesota. 18th annual meeting of the Society for Conservation Biology, 30 July-2 August, New York, New York.
- Westra, J. V., J. K. H. Zimmerman, and B. Vondracek. 2004. Economic and fisheries effects of select conservation programs of the 2002 Farm Act. 59th annual conference of the Soil and Water Conservation Society, St. Paul, Minnesota, 24-28 July.
- Williams, M. A. and B. Vondracek. 2004. Geospatial spring identification in southeast Minnesota. 59th annual conference of the Soil and Water Conservation Society, St. Paul, Minnesota, 24-28 July. (PRESENTER)
- Zimmerman, J. K. H. and B. Vondracek. 2004. Stream enclosure effects on drifting invertebrates and fish growth: do enclosure experiments produce biased results? 52nd annual meeting of the North American Benthological Society, Vancouver, British Columbia. 6-10 June. (FRIGID UNITS AWARD FOR BEST PRESENTATION EMPHASIZING METHODOLOGY)
- Williams, M. A. and B. Vondracek. 2004. Geospatial spring characteristics in southeast Minnesota. Joint annual meeting of the Minnesota Chapters of the American Fisheries Society and the Society for Conservation Biology, St. Cloud, Minnesota, 15-17 March. (PRESENTER)
- Zimmerman, J. K. H. and B. Vondracek. 2004. Stream enclosure effects on drifting invertebrates and fish growth: do enclosure experiments produce biased results? Joint annual meeting of the Minnesota Chapters of the American Fisheries Society and the Society for Conservation Biology, St. Cloud, Minnesota, 15-17 March. (BEST STUDENT PRESENTATION)
- Blann, K. L. and B. Vondracek. 2003. Landscape analysis of stream fish communities and trout abundance in GIS: lessons and limitations. 64th Annual meeting of the Midwest Fish and Wildlife Conference, Kansas City, MO, 8-10 December. (INVITED)
- Zimmerman, J. K. H., B. Vondracek, and J. V. Westra. 2003. Setting an effective TMDL: sediment loading and effects of suspended sediment on fish. 133rd annual meeting of the American Fisheries Society, Quebec, Canada 10-14 August.
- Zimmerman, J. K. H. and B. Vondracek. 2003. Community-level consequences of trout introductions: investigating interactions between native and non-native species in a coldwater stream. 133rd annual meeting of the American Fisheries Society, Quebec, Canada 10-14 August. (POSTER)
- Williams, M. A. and B. Vondracek. 2003. Groundwater modeling in karst terrain: hydrological flow in southeast Minnesota. 17th annual meeting of the Society for Conservation Biology, Duluth, Minnesota, 18 June-2 July.
- Westra, J.V., J. K. H. Zimmerman and B. Vondracek. 2003. Potential economic and environmental effects of select conservation programs of the 2002 Farm Bill. Workshop on linkages between agricultural and conservation policies, Portsmouth, NH.
- Zimmerman, J.K.H. and B. Vondracek. 2003. Community-level consequences of trout introductions: interactions between native and nonnative species in a coldwater stream. 51st annual meeting of the North American Benthological Society, Athens, Georgia, 27-31 May.

- Vondracek, B., J. K. H. Zimmerman, and J. Westra. 2003. Setting an effective TMDL for suspended sediment. American Water Resources Association 2003 Spring Specialty Conference. 12-14 May, Kansas City, Missouri. (INVITED)
- Westra, J., J. K. H. Zimmerman, and B. Vondracek. 2003. Economic and environmental benefits of mandated agricultural best management practices. American Water Resources Association 2003 Spring Specialty Conference. 12-14 May, Kansas City, Missouri. (INVITED)
- Williams, M. A., and B. Vondracek. 2003. Ground Water Modeling in Karst Terrain: Hydrological Flow in Southeast Minnesota. Annual meeting of the Minnesota Chapter of the American Fisheries Society, Chaska, Minnesota.
- Vondracek, B., J. K. Zimmerman, and J. V. Westra. 2003. Setting an effective TMDL for suspended sediment. Annual meeting of the Minnesota Chapter of the American Fisheries Society, Chaska, Minnesota.
- Zimmerman, J. K. H. and B. Vondracek. 2003. Community-level consequences of trout introductions: investigating interactions between native and nonnative species in a small coldwater stream. Annual meeting of the Minnesota Chapter of the American Fisheries Society, Chaska, Minnesota.
- Altinger, N., J. K. Zimmerman, and B. Vondracek. 2003. Species interactions and sedimentation effects on two trout species in Valley Creek. Annual meeting of the Minnesota Chapter of the American Fisheries Society, Chaska, Minnesota. (Poster)
- Vondracek, B. 2002. Nonmarket public goods associated with agricultural lands. Annual meeting of the West North Central Region of the Soil and Water Conservation Society, Moline, Illinois (INVITED).
- Westra, J., J. K. Zimmerman, and B. Vondracek. 2002. Encouraging farmers to produce environmental benefits from agriculture. 2002 Annual meeting of the American Agricultural Economics Association, Long Beach, California, 28-31 July.
- Zimmerman, J. K. H. and B. Vondracek. 2002. Effects of agricultural practices on two Minnesota watersheds. Minnesota Water 2002 and Minnesota Lakes and Rivers Conference, St. Cloud, MN 17-20 April.
- Ward, B., J. F. Nerbonne, and B. Vondracek. 2002. Multi-habitat collection methods: modeling the impact of sampling bias on macroinvertebrate indicators. Minnesota Water 2002 and Minnesota Lakes and Rivers Conference, St. Cloud, MN 17-20 April. (POSTER)
- Zimmerman, J.K., B. Vondracek, and J. Westra. 2002. Effects of agricultural practices on fish communities in two Minnesota watersheds. Annual meeting of the Minnesota Chapter of the American Fisheries Society, Duluth, Minnesota. (BEST STUDENT PRESENTATION)
- Blann, K.L. and B. Vondracek. 2002. Landowner perspectives on stream management and conservation programs in southeastern Minnesota. Annual meeting of the Minnesota Chapter of the American Fisheries Society, Duluth, Minnesota.
- Blann, K.L. and B. Vondracek. 2001. Linkages between instream habitat, riparian, and catchment characteristics: insights from GIS in southeastern Minnesota. 63rd Midwest Fish and Wildlife Conference, Des Moines, Iowa. (INVITED)
- Zimmerman, J.K., B. Vondracek, and J. Westra. 2001. Effects of agricultural practices on fish communities in two Minnesota watersheds. 63rd Midwest Fish and Wildlife Conference, Des Moines, Iowa. (INVITED)

- Vondracek, B. and K.L. Blann. 2001. Hierarchical classification of southeastern Minnesota streams based on instream and landscape characteristics. 9th National Nonpoint Source Monitoring Workshop, Indianapolis, Indiana, 27-30 August. (INVITED, PRESENTED)
- Ruetz, C.R., III, A. L. Hurford, and B. Vondracek. 2001. Interspecific interactions between brown trout and slimy sculpin: a test of competition and facilitation. 131th Annual meeting of the American Fisheries Society, Phoenix, Arizona, 19-23 August. (POSTER, AWARDED HONORABLE MENTION)
- Ruetz, C.R., III, R. M. Newman, and B. Vondracek. 2001. Complex trophic interactions in a coldwater stream: fish, benthic macroinvertebrates, and periphyton. Annual meeting of the Ecological Society of America, Madison, Wisconsin, 5-9 August.
- Ruetz, C.R., III, R. M. Newman, and B. Vondracek. 2001. Top-down control in a detrital-based food web: fish, shredders, and leaf litter decay in a coldwater stream. Annual meeting of the North American Benthological Society, LaCrosse, Wisconsin, 3-7 June.
- Vondracek, B., C.R. Ruetz, III, A. L. Hurford. 2001. Interspecific interaction between brown trout and slimy sculpin: a test of competition and facilitation. Annual meeting of the North American Benthological Society, LaCrosse, Wisconsin, 3-7 June. (INVITED, PRESENTED)
- Blann, K. L. and B. Vondracek. 2001. Hierarchical classification of southeastern Minnesota streams. Joint meeting of the Dakota, Minnesota, and Southeast Onterio chapters of the American Fisheries Society, Fargo, North Dakota, 5-7 March.
- Henry, J.K., B. Vondracek, and J. Westra. 2001. Effects of agricultural practices on fish communities. Joint meeting of the Dakota, Minnesota, and Southeast Onterio chapters of the American Fisheries Society, Fargo, North Dakota, 5-7 March.
- Ruetz, C.R., III, A.L. Hurford, and B. Vondracek. 2001. Interspecific interactions between brown trout and slimy sculpin. Joint meeting of the Dakota, Minnesota, and Southeast Onterio chapters of the American Fisheries Society, Fargo, North Dakota, 5-7 March.
- Schrader, D., C.R. Ruetz, III, B. Vondracek, and R.M. Newman. 2001. Brown trout and slimy sculpin consumption on *Gammarus*. Joint meeting of the Dakota, Minnesota, and Southeast Onterio chapters of the American Fisheries Society, Fargo, North Dakota, 5-7 March (Poster)
- Ruetz, C. R., III, R. M. Newman, and B. Vondracek. 2000. Effects of fish on grazers and periphyton in a coldwater Minnesota stream. 130th Annual Meeting of the American Fisheries Society, St. Louis, Missouri. 20-24 August.
- Vondracek, B. and K.L. Blann. 2000. Catchment and Riparian Scale Influences on Streams in Southeastern Minnesota. 130th Annual meeting of the American Fisheries Society, St. Louis, Missouri, 20-24 August 2000. (INVITED, PRESENTED)
- Meneks, M. and B. Vondracek. 2000. Fish assemblages in channelized and unchannelized streams in the Red River of the North. 130th Annual meeting of the American Fisheries Society, St. Louis, Missouri, 20-24 August.
- Vondracek, B., K.L. Blann and B. A. Nerbonne. 2000. Habitat-fish relationships across local to watershed scales. Trout and the trout angler: Workshop II. Salmonid Technical Committee, North Central Division of the American Fisheries Society, LaCrosse, Wisconsin, 6-8 July 2000. (INVITED, PRESENTED)
- Blann, K.L. and B. Vondracek. 2000. Catchment and riparian scale influences on streams in southeastern Minnesota. 7th Biennial Conference of Minnesota Water 2000, Minneapolis, Minnesota, 25-26 April.

- Ruetz, C.R., III, R.M. Newman and B. Vondracek. 2000. Fish effects on shredders and leaf litter decay in a coldwater Minnesota stream. Joint meeting of the Minnesota chapters of the American Fisheries Society and the Wildlife Society, St. Cloud, Minnesota 19-21 January.
- Blann, K.L. and B. Vondracek. 2000. Catchment and riparian scale influences on streams in southeastern Minnesota. Joint meeting of the Minnesota chapters of the American Fisheries Society and the Wildlife Society, St. Cloud, Minnesota 19-21 January.
- Meneks, M.L. and B. Vondracek. 2000. Juvenile and larval fishes of the Red River of the North - Year 2. Joint meeting of the Minnesota chapters of the American Fisheries Society and the Wildlife Society, St. Cloud, Minnesota 19-21 January.
- Ruetz, C.R., III, R.M. Newman and B. Vondracek. 1999. Do fish affect leaf litter decay in Valley Creek, Minnesota? 11th Annual St. Croix River Research Rendezvous, Marine on St. Croix, Minnesota, 19 October.
- Ruetz, C.R., III, B. Vondracek and R.M. Newman. 1999. Top-down effects of slimy sculpin in Valley Creek, Minnesota. 47th Annual meeting of the North American Benthological Society, Duluth, Minnesota, 25-28 May.
- Frost, J.A. and B. Vondracek. 1999. Citizen macroinvertebrate monitoring: Does it meet the mark? 47th Annual meeting of the North American Benthological Society, Duluth, Minnesota, 25-28 May.
- Blann, K.L. and B. Vondracek. 1999. Stream fish distribution, community structure, and habitat in relation to land use, geology, and geomorphology in southeastern Minnesota. Joint meeting of the Iowa, Minnesota and Wisconsin chapters of the American Fisheries Society, LaCrosse, Wisconsin, 5-7 January.
- Meneks, M. and B. Vondracek. 1999. Larval and juvenile fishes of the Red River. Joint meeting of the Iowa, Minnesota and Wisconsin chapters of the American Fisheries Society, LaCrosse, Wisconsin, 5-7 January.
- Ruetz, C.R., III, B. Vondracek and R.M. Newman. 1998. Potential top-down effects of slimy sculpin in Valley Creek, Minnesota. 10th Annual St. Croix River Research Rendezvous, Marine on St. Croix, Minnesota, 20 October.
- Johnson, G.D., B.J. Hansen, P.V. Van Buren, J.L. Nieber, B.A. Nerbonne, B. Vondracek, and N.D. Mundahl. 1998. Paired watershed monitoring in the Whitewater River watershed 319 monitoring project. Sixth National Nonpoint Source Monitoring Workshop, Cedar Rapids, Iowa, 21-24 September.
- Nerbonne, B.A., B. Vondracek, N.D. Mundahl, and G.D. Johnson. 1998. Biological monitoring and physical assessment of best management practices in the Whitewater watershed of Minnesota. Sixth National Nonpoint Source Monitoring Workshop, Cedar Rapids, Iowa, 21-24 September. (Poster)
- Nerbonne, B.A., B. Vondracek and C.B. Cox. 1998. A comparison of effects on streams of Best Management Practice farms and conventional farms. 128th Annual meeting of the American Fisheries Society, Hartford, Connecticut, 24-27 August. (INVITED)
- Frost, J.A. and B. Vondracek. 1998. Citizen macroinvertebrate monitoring: Does it meet the mark? 128th Annual meeting of the American Fisheries Society, Hartford, Connecticut, 24-27 August.
- Vondracek, B. and D. French. 1998. Community partnerships: the monitoring team in SE Minnesota. 10th Annual Sustainable Agriculture Research and Education Conference, Austin, Texas, 5-6 March. (INVITED)

- Cox, C.B., B.A. Nerbonne, and B. Vondracek. 1998. Fish and invertebrate communities: a GIS analysis in SE Minnesota. 31st Annual meeting of the Minnesota Chapter of the American Fisheries Society, Camp Ripley, Minnesota, 24-26 February.
- Vondracek, B., L.A. Sovell, and J.A. Frost. 1998. Impacts of rotational grazing and riparian buffer strips on the physicochemical characteristics and biological communities of southeastern Minnesota streams. 23rd Annual Minnesota Forage Conference, Grand Rapids, Minnesota, 4-5 February. (INVITED)
- Boody, G. and B. Vondracek. 1997. Measuring agricultural sustainability: an environmental tool kit for farmers. 59th Midwest Fish and Wildlife Conference, Milwaukee, Wisconsin, 7-10 December. (INVITED)
- Sovell, L.A., J.A. Frost, and B. Vondracek. 1997. Impacts of rotational grazing and riparian buffers on physicochemical characteristics and biological communities in SE Minnesota streams. 59th Midwest Fish and Wildlife Conference, Milwaukee, Wisconsin, 7-10 December.
- Nerbonne, B.A., B. Vondracek, and N.D. Mundahl. 1997. Impacts of upland agricultural practices and riparian buffers on physical characteristics and biological communities in SE Minnesota streams. 59th Midwest Fish and Wildlife Conference, Milwaukee, Wisconsin, 7-10 December.
- Grant, G.C. and B. Vondracek. 1997. Using energetic models to explain resource partitioning and species replacement in stream trout populations. 127th Annual Meeting of the American Fisheries Society, Monterey, California, 25-28 August.
- Sovell, L.A. and B. Vondracek. 1997. Impacts of sustainable farming practices on streams in southeastern Minnesota: riparian buffers and rotational grazing. 127th Annual Meeting of the American Fisheries Society, Monterey, California, 25-28 August.
- Nerbonne, B.A. and B. Vondracek. 1997. Fish and invertebrate responses to agricultural land use. Annual meeting of the Rivers and Streams Technical Committee of the North Central Division of the American Fisheries Society in Rock Island, Illinois, 2 April 1997.
- Vondracek, B. and R. Lentz. 1997. A team approach to research: a new model, people of the land, science, and agencies. Presented at a symposium titled "Common enemies and competing interests of sustainable agriculture and conservation biology" organized in conjunction with the annual meeting of the New World Agriculture and Ecology Group, St. Paul, Minnesota, 5 April 1997. (INVITED)
- Nerbonne, B.A., N.D. Mundahl, and B. Vondracek. 1997. Comparison of best management practices to conventional agricultural practices: effects on streams. 1997 Joint meeting of the Minnesota and Dakota Chapters of the American Fisheries Society, Fargo, North Dakota, 25-27 February.
- Sovell, L.A. and B. Vondracek. 1997. Impacts of sustainable farming practices on streams in southeastern Minnesota: riparian buffers and rotational grazing. 1997 Joint meeting of the Minnesota and Dakota Chapters of the American Fisheries Society, Fargo, North Dakota, 25-27 February.
- Grant, G.C. and B. Vondracek. 1997. Feeding, microhabitat and growth in sympatric populations of brook, brow and rainbow trout. 1997 Joint meeting of the Minnesota and Dakota Chapters of the American Fisheries Society, Fargo, North Dakota, 25-27 February.

- Anderson, D.J. and B. Vondracek. 1997. Insects as indicators of wetland condition in North Dakota. 1997 Joint meeting of the Minnesota and Dakota Chapters of the American Fisheries Society, Fargo, North Dakota, 25-27 February.
- Pothoven, S.A., B. Vondracek, and D.L. Pereira. 1997. Indirect effects of vegetation removal on fish community structure and predator-prey interactions. Joint meeting of the New York and Pennsylvania chapters of the American Fisheries Society, Oswego, New York, 30 January-1 February.
- Anderson, D.J. and B. Vondracek. 1996. Insects as indicators of wetland condition in North Dakota. 58th Midwest Fish and Wildlife Conference, Omaha, Nebraska, 8-11 December.
- Grant, G.C., B. Vondracek, and P.W. Sorensen. 1996. Behavior of spawning brook and brown trout in Valley Creek, Minnesota. 58th Midwest Fish and Wildlife Conference, Omaha, Nebraska, 8-11 December.
- Runstrom, A.L., B. Vondracek, and C.A. Jennings. 1996. Population dynamics of paddlefish in the lower Wisconsin River. 126th Annual Meeting of the American Fisheries Society, Dearborn, Michigan, 26-29 August.
- Grant, G.C., B. Vondracek, and P.W. Sorensen. 1996. Diel spawning activity of brook and brown trout in Valley Creek, Minnesota. 1996 Joint meeting of the Minnesota chapters of the American Fisheries Society, Society of American Foresters, and The Wildlife Society, Brainerd, Minnesota, 31 January-2 February.
- Mumford, K.G., L.A. Sovell, and B. Vondracek. 1996. Impacts of management intensive grazing on streams in southeast Minnesota: project background, water chemistry, and physical habitat. 1996 Joint meeting of the Minnesota chapters of the American Fisheries Society, Society of American Foresters, and The Wildlife Society, Brainerd, Minnesota, 31 January-2 February.
- Sovell, L.A., K.G. Mumford, and B. Vondracek. 1996. Impacts of management intensive grazing on streams in southeast Minnesota: fish and benthic macroinvertebrate communities. 1996 Joint meeting of the Minnesota chapters of the American Fisheries Society, Society of American Foresters, and The Wildlife Society, Brainerd, Minnesota, 31 January-2 February.
- Pothoven, S., B. Vondracek, and D. Pereira. 1996. Effects of vegetation removal on the fish community structure and predator-prey relations in two Minnesota lakes. 1996 Joint meeting of the Minnesota chapters of the American Fisheries Society, Society of American Foresters, and The Wildlife Society, Brainerd, Minnesota, 31 January-2 February.
- Sovell, L.A., Mumford, K.G., and B. Vondracek. 1995. Stream quality following management intensive grazing on southeastern Minnesota streams. 57th Midwest Fish and Wildlife Conference, Detroit, Michigan, 3-6 December.
- Pothoven, S., B. Vondracek, and D. Pereira. 1995. Effects of vegetation removal on the fish community structure and predator-prey relations in two Minnesota lakes. 57th Midwest Fish and Wildlife Conference, Detroit, Michigan, 3-6 December.
- Mumford, K.G., L.A. Sovell, and B. Vondracek. 1995. Stream quality following management intensive grazing on southeastern Minnesota streams. Symposium on linkages among farming systems and communities, Association for Farming Systems Research/Extension, Ames, Iowa, 5-8 November. (INVITED)
- Pothoven, S., B. Vondracek, and D. Pereira. 1995. The indirect effects of fluridone (SONAR®) on the fish communities of Minnesota lakes. Minnesota/Wisconsin Department of Natural

Resources workshop on Eurasian watermilfoil, Hudson, Wisconsin, 14-15 March.
(INVITED)

- Pothoven, S., B. Vondracek, and D. Pereira. 1995. The indirect effects of fluridone (SONAR®) on the fish communities of Minnesota lakes. 1995 Joint Meeting of the Iowa/Minnesota chapters of the American Fisheries Society, Okoboji, Iowa.
- Mavrakis, P. and B. Vondracek. 1995. Affects of limited suitable spawning and summer microhabitat on an adult smallmouth bass population. 1995 Joint Meeting of the Iowa/Minnesota chapters of the American Fisheries Society, Okoboji, Iowa.
- Runstrom, A.L., Bruce Vondracek, and C.A. Jennings. 1995. Population dynamics of paddlefish in the lower Wisconsin River. 24th Annual Meeting, Wisconsin Chapter, American Fisheries Society, Madison, Wisconsin.
- Pothoven, S., B. Vondracek, and D. Pereira. 1994. An evaluation of indirect effects of fluridone on the fish communities of two Minnesota lakes. 56th Midwest Fish and Wildlife Conference, Indianapolis, Indiana.
- Mavrakis, P. and B. Vondracek. 1994. Effects of limited suitable spawning and summer microhabitat on an adult smallmouth bass population. 56th Midwest Fish and Wildlife Conference, Indianapolis, Indiana.
- Pothoven, S., B. Vondracek, and D. Pereira. 1994. An evaluation of indirect effects of fluridone on the fish communities of two Minnesota lakes: pre-treatment results. 27th Annual Meeting, Minnesota Chapter, American Fisheries Society, St. Cloud, Minnesota.
- Giese, B. and B. Vondracek. 1994. Caloric density of salmonine prey species in Lake Superior. 27th Annual Meeting, Minnesota Chapter, American Fisheries Society, St. Cloud, Minnesota.
- Vondracek, B., D. Degan, and T.J. Kwak. 1992. Within- and among transect variation in distribution and abundance of shad in Lake Texoma. 46th Annual Conference, Southeastern Association of Fish and Wildlife Agencies, Corpus Christie, Texas. (INVITED)
- Francis, J.T. and B. Vondracek. 1991. Historical and comparative study of prey selectivity by walleye in Lake Erie. 53rd Midwest Fish and Wildlife Conference, Des Moines, Iowa.
- Knight, R.L. and B. Vondracek. 1990. Changes in the forage fish community of Lake Erie, 1969-1988. 52nd Midwest Fish and Wildlife Conference, Minneapolis, Minnesota.
(PRESENTER)
- Hayward, R.S., J.F. Hiebert, F.J. Margraf, D.L. Parrish, and B. Vondracek. 1990. Introduction and evaluation of a low-cost approach to field-estimating daily rations for fishes. 52nd Midwest Fish and Wildlife Conference, Minneapolis, Minnesota.
- Vondracek, B., J. Buenger, and R. Pontius. 1990. Physical-chemical effect of zebra mussel (*Dreissena polymorpha*) on spawning habitat and egg hatchability of walleye (*Stizostedion vitreum vitreum*). International Zebra Mussel Research Conference, Columbus, Ohio.
(INVITED)
- Hayward, R.S., J.F. Hiebert, F.J. Margraf, D.L. Parrish, and B. Vondracek. 1990. A low-cost approach for field-based estimates of food consumption by fishes. 44th Annual Conference, Southeastern Association of Fish and Wildlife Agencies, Richmond, Virginia.
- Knight, R.L. and B. Vondracek. 1990. Changes in the forage fish community of Lake Erie, 1969-1988. 30th Ohio Fish and Wildlife Conference, Columbus, Ohio. Best paper award.
- Francis, J.T. and B. Vondracek. 1990. Dietary differences of walleye from the central and western basins of Lake Erie. 30th Ohio Fish and Wildlife Conference, Columbus, Ohio.

- Vondracek, B., D.M. Baltz, L.R. Brown, and P.B. Moyle. 1989. Seasonal changes in microhabitat selection by rainbow trout (*Salmo gairdneri*) in a small stream. 119th Annual meeting, American Fisheries Society, Anchorage, Alaska.
- Parrish, D.L., W.J. Eckmayer, and B. Vondracek. 1989. Use of daily otoliths rings in larval walleye to determine spawning sites of the Lake Erie population. 51st Midwest Fish and Wildlife Conference, Springfield, Illinois.
- Vondracek, B. and D.R. Longanecker. 1988. Microhabitat selection of rainbow trout at two flows in the Pit River, California. 23rd Annual Conference, Cal-Neva Chapter, American Fisheries Society, Ventura, California.
- Vondracek, B. 1987. What do rainbow trout do in winter? 22nd Annual Conference, Cal-Neva Chapter, American Fisheries Society, Sacramento, California.
- Vondracek, B., D.M. Baltz, L.R. Brown, and P.B. Moyle. 1987. Species composition, distribution, and abundance of native non-game fishes in a northern California reservoir. 22nd Annual Conference, Cal-Neva Chapter, American Fisheries Society, Sacramento, California.
- Vondracek, B., D.M. Baltz, L.R. Brown, and P.B. Moyle. 1986. Unusual species composition of a fish assemblage in a northern California reservoir. 66th Annual Conference of the Ichthyological and Herpetological Society, Victoria, British Columbia.
- Vondracek, B., W.A. Wurtsbaugh, and J.J. Cech, Jr. 1982. Effect of temperature and ration size on the food consumption and growth rates of the mosquitofish, *Gambusia affinis*. 50th Annual Conference, California Mosquito and Vector Control Association, Sacramento, California.
- Botsford, L.W., B. Vondracek, and J.J. Cech, Jr. 1982. Population development of the mosquitofish, *Gambusia affinis* in California rice fields. 50th Annual Conference, California Mosquito and Vector Control Association, Sacramento, California.
- Vondracek, B. and J.J. Cech, Jr. 1980. A preliminary study of stream fish respiration in cycling temperatures and its potential influence on growth rates. 11th Joint Conference of the Cal-Neva Chapter, American Fisheries Society and Western Section, Wildlife Society, Red Bluff, California.
- Vondracek, B., W.A. Wurtsbaugh, and J.J. Cech, Jr. 1980. Mass marking of mosquitofish: preliminary results. 48th Annual Conference, California Mosquito and Vector Control Association, Anahiem, California.
- Vondracek, B., R.A. Horrall, and J.J. Magnuson. 1977. The effects of differential exploitation rates on white sucker (*Catostomus commersoni*) in Lake Michigan and adjacent waters. 20th Conference for Great Lakes Research, Ann Arbor, Michigan.

TECHNICAL REPORTS

- Wilson, B. N., B. Vondracek, J. Ulrich U. Singh P. VanBuren M. Kocian B. Asmus B. Hansen J. Perry J. L Nieber, and T. Zearling. 2006. Quantifying the Variability of Stream Health Indicators for TMDL Assessment. Final Report to the Minnesota Pollution Control Agency, St. Paul, Minnesota.
- Newman, R. M., J. A. Perry, and B. Vondracek. 2005. Effects of riparian forest harvest on instream habitat, and fish and invertebrate communities. Final Report to the Minnesota Department of Natural Resources, St. Paul, Minnesota.

- Steil, J. C., C. R. Blinn, R. M. Newman, B. Vondracek, D. M. Atuke, J. Lind and J. Hanowski. 2005. Evaluating Riparian Timber Harvesting Guidelines: 2005 Bridge Funding Report. A Report to the Minnesota Forest Resources Council, St. Paul, Minnesota. Available at <http://www.frc.state.mn.us/Info/MFRCdocs.html> in the Monitoring Programs section.
- Newman, R. M., J. A. Perry, and B. Vondracek. 2005. Effects of riparian forest harvest on instream habitat, and fish and invertebrate communities. Final Report to the Water Resources Center, University of Minnesota, St. Paul, Minnesota.
- Blinn, C. R., D. M. Atuke, N. Danz, J. Hanowski, D. Kastendicki, R. Kolka, J. Lind, R. M. Newman, B. Palik, N. Schlessler, J. Steil, D. Strelow, B. Vondracek, and E. Zenner. 2004. Evaluating Timber Harvesting and Forest Management Guidelines. Final Report to Legislative Commission on Minnesota Resources, St. Paul, Minnesota.
- Krinke, M., J. K. Herny, B. Vondracek and 13 others. 2001. Economic Analysis of Agriculture for Multiple Benefits. Final Report submitted to the Legislative Committee for Minnesota's Resources, St. Paul
- Mulla, D. J., A. Sekely, A. Birr, J. Perry, B. Vondracek, E. Bean, E. Macbeth, S. Goyal, B. Wheeler, C. Alexander, G. Randall, G. Sands, and J. Linn. 1999. A summary of the literature related to the effects of animal agriculture on water resources. Final Report to the Environmental Quality Board. St. Paul, MN.
- Nerbonne, B.A., B. Vondracek, N. Mundahl. 1999. Effects of land use and sediment on the distribution of benthic invertebrates and fish in the Whitewater River Watershed of Minnesota. Final Report to the Minnesota Pollution Control Agency, Water Resources Division, Nonpoint Source Section.
- Cox, C.B. and B. Vondracek. 1998. Fish and invertebrate communities in the Whitewater River Watershed: a GIS based examination of land use effects. Final Report to the Minnesota Pollution Control Agency, Water Resources Division, Nonpoint Source Section.
- Anderson, D.J. and B. Vondracek. 1998. Insects as indicators of wetland condition in the Prairie Pothole Region of North Dakota. Final Report to U.S. Geological Survey, Northern Prairie Wildlife Research Center.
- Sovell, L.A. and B. Vondracek. 1997. Impacts of management intensive grazing on five southeastern Minnesota streams. Contribution to Water Resources Science Program. Final Report to U.S. Geological Survey.
- Pothoven, S.A., B. Vondracek, and D.L. Pereira. 1996. An evaluation of the indirect effects of flouridone on the fish communities of two Minnesota lakes. Final Report, Minnesota Department of Natural Resources, St. Paul, Minnesota.
- Mavrakis, P.H. and B. Vondracek. 1995. Spawning and summer microhabitat use in a northern population of smallmouth bass. Final Report: Electric Power Research Institute.
- Boxrucker, J., D. Degani, D. DeVries, P. Michaletz, M.J. Van Den Avyle, and B. Vondracek. 1995. Sampling shad in southern impoundments. Research Manual, Reservoir Committee of the American Fisheries Society, Federal Aid in Fish Restoration under Cooperative Agreement No. 14-16-0002-91-216.
- Giese, B. and B. Vondracek. 1994. Caloric density of salmonine prey fishes in Lake Superior. Final Report, Minnesota Department of Natural Resources, St. Paul, Minnesota.
- Vondracek, B., B. Spence, and D.R. Longanecker. 1992. Seasonal habitat selection of rainbow trout. Final Report, Pacific Gas and Electric, Research and Development, San Ramon, California.

- Vondracek, B. and R. LeHew. 1991. Population dynamics and ecology of Lake Erie gizzard shad. Final Report, Federal Aid in Fish Restoration, Project F-61-R-1 through R-5, Study 2, Ohio Department of Natural Resources, Division of Wildlife, Columbus, Ohio.
- Vondracek, B. and R. Pontius. 1990. Physico-chemical effects of zebra mussel, *Dreissena polymorpha*, on the spawning habitat and egg hatchability of walleye, *Stizostedion vitreum vitreum*. Final Report, Federal Aid in Fish Restoration, Ohio Department of Natural Resources.
- Francis, J.T. and B. Vondracek. 1990. Predator/prey interactions of Lake Erie Walleye. Final Report, Federal Aid in Fish Restoration, Project F-61-R-1 through R-4, Study 1, Ohio Department of Natural Resources, Division of Wildlife, Columbus, Ohio.
- Vondracek, B., D.L. Parrish and J. Buenger. 1990. Age-structured recruitment of young-of-the-year fishes in Lake Erie. Final Report, Federal Aid in Fish Restoration, Project F-61-R-1 through R-4, Study 4, Ohio Department of Natural Resources, Division of Wildlife, Columbus, Ohio.
- Vondracek, B. 1990. Analysis of yellow perch growth in Lake Erie. Final Report, Federal Aid in Fish Restoration, Project F-57-R-8 through R-9 and Project F-61-R-1 through R-4, Study 4, Ohio Department of Natural Resources, Division of Wildlife, Columbus, Ohio.
- Vondracek, B. and R. LeHew. 1990. Population dynamics and ecology of Lake Erie gizzard shad. Annual Performance Report, Federal Aid in Fish Restoration, Project F-61-R-4, Study 2, Ohio Department of Natural Resources, Division of Wildlife, Columbus, Ohio. Co-author: R.F. LeHew.
- Vondracek, B. 1987. The species composition and feeding relationships of the near-shore fish assemblage of Clear Lake, California following the introduction of the threadfin shad. Final Report to the Lake County Mosquito Abatement District.
- Vondracek, B. 1987. Fish population surveys in the Pit 3, 4, and 5 river reaches in 1987. Final Report to Pacific Gas and Electric, Co.
- Vondracek, B. 1987. Fish population surveys in the Pit 4, Pit 5, and Tunnel reservoirs in 1987. Final Report to Pacific Gas and Electric, Co.
- Vondracek, B. 1987. Fish population surveys in the Rock Creek in 1987. Final Report to Pacific Gas and Electric, Co.
- Vondracek, B. 1987. Microhabitat selection of rainbow trout at two flows in a California stream. Final Report to Pacific Gas and Electric, Co.
- Vondracek, B., P.B. Moyle, A. Pettis, and I. Chew. 1986. Fish species composition and distribution in northern California. Report to the U.S. Forest Service.
- Baltz, D.M., B. Vondracek, and BioSystems Analysis, Inc. 1985. Pit 3, 4, and 5 Project: Bald eagle and fish study. Final Report to Pacific Gas and Electric Co.
- Baltz, D.M., B. Vondracek, and BioSystems Analysis, Inc. 1984. Pit 3, 4, and 5 Project: Bald eagle and fish study. Interim Report to Pacific Gas and Electric Co.
- Vondracek, B. and P.B. Moyle. 1983. Squawfish predation at the Red Bluff Diversion Dam. Final Report to the California Department of Water Resources.
- Vondracek, B. and P.B. Moyle. 1982. The biology of the Sacramento squawfish, *Ptychocheilus grandis* and predation on juvenile salmon, *Oncorhynchus tshawytscha*, in the Sacramento River. Report to the California Department of Water Resources.

WORKSHOP

Co-organizer, "California's salmon and steelhead trout" with Robert Z. Callaham. Publication: California's salmon and steelhead trout: A Research and Extension Program. Wildland Resources Center, University of California. Report No. 13. Co-author: R.Z. Callaham, 1987.

INVITED SEMINARS

Stream classification for TMDL assessment using dimensionless, reference reach approach. Water Resources Science Seminar Series, University of Minnesota, 2004.

Can changing agricultural practices benefit water, soil, and air quality. Department of Biology, St. Olaf College, 2002.

Can Changing Agricultural Practices Benefit Water Quality and Fish Communities? Water Resources Science Seminar Series, University of Minnesota, 2002.

Can changing agricultural practices benefit water quality and fish communities? The Multiple Benefits Project. Department of Fisheries, Wildlife, and Conservation Biology, University of Minnesota, 2001.

Aquatic biota in relation to riparian areas and land use: agricultural and forested landscapes. Department of Fisheries, Humboldt State University, 1997.

Accuracy and precision of population estimates using six sampling techniques deployed simultaneously. Department of Fisheries and Wildlife, University of Minnesota.

A superficial survey of the fishes of Siberia. Department of Fisheries and Wildlife, University of Minnesota, 1994.

Changes in size structure and abundance of prey fishes in Lake Erie: a historical perspective, Department of Zoology, The Ohio State University, 1991.

Microhabitat selection by rainbow trout: implication for the Instream Flow Incremental Methodology. Department of Fisheries and Wildlife, University of Minnesota, 1991.

Microhabitat selection by rainbow trout: implication for the Instream Flow Incremental Methodology. Department of Natural Resources, Cornell University, 1991.

Microhabitat selection of rainbow trout in the Pit River California. Department of Biology, University of North Dakota, 1987.

Unusual fish species composition in a northern California reservoir. Department of Zoology, Southern Illinois University, 1986.

Fact or fiction: Are Sacramento squawfish major predators on juvenile salmon at Red Bluff Diversion Dam? Sacramento Chapter, American Fisheries Society, Sacramento, California, 1984.

Structure of a small fish assemblage in a small California mountain stream. Department of Forestry and Natural Resources, University of California, Berkeley, 1983.

Structure of a small fish assemblage in a small California mountain stream. Bodega Marine Laboratory, University of California, 1983.

Predator-prey interactions of Sacramento squawfish and juvenile chinook salmon at Red Bluff Diversion Dam. Department of Forestry and Natural Resources, University of California, Berkeley, 1982.

THESES SUPERVISED

James T. Francis - M.S. Zoology

Francis, J.T. 1992. Prey selectivity by walleye in Lake Erie: an historical and inter-basin comparison. M.S. Thesis, Ohio State University.

Currently: Michigan Department of Natural Resources, Lake Erie Management Unit

Bradley D. Giese - M.S. Fisheries

Giese, B.D. 1994. Caloric density of salmonine prey fishes in Lake Superior. M.S. Thesis, University of Minnesota. M.S. Thesis, University of Minnesota.

Currently: Biologist, Xcel Energy

Paul H. Mavrakis - M.S. Fisheries

Mavrakis, P.H. 1995. Spawning and summer microhabitat use in a northern population of smallmouth bass. M.S. Thesis, University of Minnesota.

Currently: Regional Fisheries Supervisor, Wyoming Game and Fish

Steven A. Pothoven - M.S. Fisheries (Co-advised with Donald L. Pereira)

Pothoven, S.A. 1996. An evaluation of the indirect effects of fluridone on the fish community structure of two Minnesota lakes. M.S. Thesis, University of Minnesota.

Currently: Research Associate, Great Lakes Environmental Research Laboratory

Ann L. Runstrom - M.S. Fisheries

Runstrom, A.L. 1996. The population dynamics of paddlefish in the lower Wisconsin River. M.S. Thesis, University of Minnesota.

Currently: Fish Biologist, U.S. Fish and Wildlife Service

David J. Anderson - M.S. Fisheries

Anderson, D.J. 1997. Insects as indicators of wetland condition in the Prairie Pothole Region of North Dakota. M.S. Thesis, University of Minnesota.

Currently: Biologist, Minnesota Department of Natural Resources, Section of Fisheries

Laurie A. Sovell - M.S. Fisheries

Sovell, L.A. 1997. Impacts of rotational grazing and riparian buffer strips on the physicochemical characteristics and biological communities of southeastern Minnesota streams. M.S. Thesis, University of Minnesota.

Currently: Coordinator, Citizen Stream-Monitoring Program , Minnesota Pollution Control Agency

Carson B. Cox - M.S. Conservation Biology

Cox, C.B. 1998. Fish and invertebrate communities in the Whitewater River Watershed: a GIS based examination of land use effects. M.S. Thesis, University of Minnesota.

Currently: Project Manager, Sustainable Conservation

Gerold C. Grant - Ph.D. Fisheries

Grant, G.C. 1999. Growth, spawning behavior and feeding strategies of trout in a small midwestern stream. Ph.D. Dissertation, University of Minnesota.

Currently: Supervising Fish and Wildlife Biologist, Oregon Department of Fish and Wildlife, NE Region Fish Research

Brian A. Nerbonne - M.S. Fisheries

Nerbonne, B.A. 1999. Effects of land use and sediment on the distribution of benthic invertebrates and fish in the Whitewater River Watershed of Minnesota. M.S. Thesis, University of Minnesota.

Currently: Metro Trout Habitat Specialist, Minnesota Department of Natural Resources, Section of Fisheries

Kristen L. Blann - M.S. Conservation Biology

Blann, K.L. 2000. Catchment and riparian scale influences on coldwater streams and stream fish in southeastern Minnesota.

Currently: Ph.D. Student, Conservation Biology Program, University of Minnesota

Julia A. Frost - M.S. Conservation Biology

Frost, J.A. 2000. Macroinvertebrate monitoring: potential for volunteers.

Currently: Ph.D. Student, Conservation Biology Program, University of Minnesota

Maija Meneks - M.S. Fisheries

Meneks, M.L. 2000. Larval and juvenile fishes of the Red River of the North.

Currently: Fishery Biologist, U.S. Forest Service, Toiyabe National Forest, Mountain City Ranger District

Carl R. Ruetz III - Ph.D. Fisheries

Ruetz, C. R. III. 2001. Effects of trout and sculpins on benthic macroinvertebrates, periphyton, and leaf litter decay in Valley Creek, Minnesota.

Currently: Research Scientist, Annis Water Resources Institute, Muskegon, Michigan

Julia Frost Nerbonne - Ph.D. Conservation Biology

Nerbonne, J. F. 2003. Volunteer macroinvertebrate monitoring as a tool for empowering citizen groups in the United States.

Currently: Director of the Environmental Sustainability Program at the Higher Education

Consortium for

Matthew Laudon - M.S. Water Resources Science

Laudon, M.C. 2004. The importance of terrestrial arthropods to trout in Valley Creek, Minnesota.

Currently: Curator and manager of the Chlamydomonas Resource Center, University of

Minnesota

Kristen Blann - Ph.D. Conservation Biology

Blann, K. 2004. Landscape-scale analysis of stream fish communities and habitats: lessons from southeastern Minnesota.

Currently: Post Doctoral Researcher, Water Resources Center, University of Minnesota

Adam Petersen - M.S.-Conservation Biology Program (Fisheries and Aquatic Biology track)

Petersen, A. 2005. Buffer strips around sinkholes to protect and improve water quality in southeastern Minnesota: conservation in karst.

Currently: Grayling Technician III, Montana Fish, Wildlife, and Parks

Julie K. H. Zimmerman - Ph.D.-Fisheries

Zimmerman, J. K. H. 2005. Interactions between native and nonnative species: consequences of a brown trout introduction on a coldwater stream community.

Currently: Post Doctoral Fellow, Connecticut River Hydroecology Group, S.O. Conte Anadromous Fish Research Center

Fiona Nagle - M.S. Conservation Biology

Nagle, F. 2005. Hawaii's land use commission: a study in functional authenticity.

Currently: Ph.D. program Conservation Biology, University of Minnesota

CURRENT GRADUATE STUDENT SUPERVISION

Dickson Auke, Ph.D.-Conservation Biology Program (Fisheries and Aquatic Biology track)

David Huff, Ph.D.-Conservation Biology Program (Fisheries and Aquatic Biology track)

Matt Kocian, M.S.-Conservation Biology Program (Fisheries and Aquatic Biology track)

John Loomis, M.S.-Water Resources Science

Fiona Nagle, M.S./Ph.D.-Conservation Biology Program
Nicholas Schlessler, M.S.-Conservation Biology Program (Fisheries and Aquatic Biology track)

OTHER RESEARCH SUPERVISION

University of Minnesota

Angela Bolton, Research Specialist, Department of Fisheries, Wildlife, and Conservation Biology, 2004

Matt Kocian, Research Specialist, Department of Fisheries, Wildlife, and Conservation Biology, 2004

Julie Henry, Research Fellow, Department of Fisheries, Wildlife, and Conservation Biology, 2000-2001 and post Doctoral Researcher, 2005

Kristen Blann, Post Doctoral Researcher, Water Resources Center, 2005-

Undergraduate Research Opportunity Program

Lisa Pugh, Use of otoliths to age slimy sculpin, 2006

Patricia Bobzin, Benthic invertebrates seasonal change in differing environments, 2003

Jesse Carlson, The Relationship Between Watershed Characteristics and Macroinvertebrate Community Metrics in 30 Watersheds Located in Southeastern Minnesota, 2003

Ann Ollila, Multi-habitat versus multi-plate assessments of muddy bottom streams, 2002

Nicholas Altringer, Species interactions and sediment effects on two trout species in Valley Creek, 2002

David Schrader, A test of the predation-risk hypothesis: addition of benthic predators, 2000

Joseph Brostuen, Prey selection of slimy sculpin in Valley Creek, 1998

Jennifer Gazella, Aquatic species diversity on a management intensive grazing site, 1997

Colette Buckholtz, Invertebrate indicators of land use adjacent to wetlands, 1996

Wade Watson, Avian predation on spawning trout, 1996

Eric Elias, Aquatic species diversity on a management intensive grazing site, 1995

Jessica Gourley, Water quality along Management Intensive Grazing sites, 1995

S. Dale Hanson, Feeding rates of juvenile brook and brown trout, 1993

Life Science Summer Undergraduate Research Program

Amy Hurford, Trophic interactions in a small, coldwater Minnesota stream, 2000

The Ohio State University

William Eckmayer, postdoctoral researcher, October 1988-June 1989

Donna L. Parrish, postdoctoral researcher, January 1989-September 1989

UNIVERSITY SERVICE

University of Minnesota

Admissions Committee, member, Water Resources Science Program, 2001-2005

Admissions Committee, Conservation Biology Program, chair, 1996 and 1998-2005, member 1995 and 2000

Department Head Search Committee, member, Department of Fisheries, Wildlife, and Conservation Biology, 2000-2001
 Faculty Search Committee, member, Department of Fisheries and Wildlife, 1992 and 1998
 Honors and Awards Committee, member, College of Natural Resources, 2000-2001
 Long Range Planning Committee, member, Department of Fisheries, Wildlife, and Conservation Biology, 1993-1995 and 2004-2006
 Scholarship Committee, member, College of Natural Resources, 1994-1999 and 2001-present
 Scholastic Standing and Scholarship Committee, chair, Department of Fisheries, Wildlife, and Conservation Biology, 1994-1998 and 2003-2005
 Search Committee, member, Minnesota Cooperative Fish and Wildlife Research Unit/Department of Fisheries and Wildlife, 1998
 Seminar Committee, chair, Department of Fisheries and Wildlife, 1992-1993
 Social Committee, Department of Fisheries, Wildlife, and Conservation Biology, chair 2001-2002 member 1996-1997 and 2002-2004
 Steering Committee, member, Conservation Biology Program, 2002-2005 Teaching Evaluation Committee, Department of Fisheries, Wildlife, and Conservation Biology, chair 2001 and member 2003
 Teaching Facilities Committee, member, Department of Fisheries and Wildlife and Department of Entomology, 1994

The Ohio State University

Faculty Search Committee, member, Department of Zoology, 1991
 Graduate Admissions Committee, member, Department of Zoology, 1988-1990
 Laboratory Animal Care of Fishes, supervisor, Department of Zoology, 1988-1990
 Water Resources Center Proposal Review Committee, member, 1989 and 1991

Student advisory committees:

University of Minnesota

Ph.D.

Joseph Magner (Natural Resources and Management, 2004-present)
 Chris Lenhart (Forest Resources) 2004-present
 Daniel Kramer (Conservation Biology, 2005)
 Dawn Patterson (Conservation Biology, 2003-present)
 Will Bouchard (Entomology, 2002-present)
 Karen Mumford (Conservation Biology, 2002)
 Michelle LeBeau (Fisheries, 2001-2004)
 Helen Takade (Fisheries, 2001-present)
 David Houghton (Entomology, 2000-2002)
 Suzanne Savanick (Conservation Biology, 2000-2004)
 Seth Moore (Water Resources Science Program, 1999-present)
 Pam Davis (Water Resources Science Program, 1999-present)
 Christine Penny (Fisheries, 1998-present)
 James Manolis (Conservation Biology, 1999)
 Paul Phifer (Conservation Biology, 1995-1998)

Paul Mayer (Conservation Biology, 1993-1998)

M.S.

Jason Ulrich (Water Resource Science) 2004-2005

Sarah Roley Conservation Biology (Fisheries and Aquatic Science track, 2004-present)

Moriya Rufer (Entomology, 2004-present)

Adam Sealock (Entomology, 2004-present)

Dana Vanderbosch (Water Resource Science, 2004-present)

Katie Hawkins (Conservation Biology, 2003-2006)

Jessie Koehle (Conservation Biology, Fisheries and Aquatic Biology Track, 2004-2006)

Branda Long (Conservation Biology, Fisheries and Aquatic Biology Track, 2002- 2005)

Sean Sisler (Conservation Biology, Fisheries and Aquatic Biology Track, 2003-2005)

Barbara Peichel (Water Resources Science Program, 2001-2002)

Brad Ward (Masters of Biological Sciences, 2001-2002)

Leigh Currie (Conservation Biology, 2001)

John Epton (Conservation Biology, 2001-2004)

Keith Fredrick (Water Resources Science Program, 2000-2002)

Darren Ward (Fisheries 2000-2002)

Joshua Woodward (Water Resources Science Program, 2000-2002)

Shawn Dahle (Fisheries 1999-2001)

Marcey Westrick (Water Resources Science Program 1999-2000)

Brian Ickes (Fisheries, 1998-2000)

Michael Knapp (Fisheries, 1998-2001)

Phillip Talmadge (Water Resources Science Program, 1998-2000)

Jeremy Zumberge (Water Resources Science Program, 1998-1999)

Anne Gleason (Water Resources Science Program 1997-1999)

Martin Melchoir (Fisheries, 1997-1999)

Carie Kowalsky (Water Resources Science Program 1996-1997)

Douglas Mensing (Conservation Biology, 1996-1997)

Ryan Brown (Fisheries, 1996-1998)

Patrick Rivers (Fisheries, 1996-1998)

Jennifer Hathaway Stucker (Wildlife Conservation 1996-2000)

Christopher Appelt (Fisheries, 1995-1997)

Fred Henson (Fisheries, 1995-1999)

Alan McClure (Fisheries, 1995-1996; discontinued)

Jeremy Trexel (Fisheries, 1995-2000; discontinued))

Alison Chubb (Conservation Biology, 1994-1995)

Ann Haines (Conservation Biology, 1993)

Steve Morse (Fisheries, 1992-2001; discontinued)

Timothy Essington (Fisheries, 1992-1995)

Dana Weigel (Fisheries, 1991-1994)

The Ohio State University

Ph.D.

Kathleen Bruner (Zoology, 1989-1991)

Sharook Madon (Zoology, 1989-1991)

Jainguang Qin (Zoology, 1989-1991)
 Ph.D. Dissertation Committee (defense only)
Bruce Trauben (Zoology, 1991)
Martha Mather (Zoology, 1990)
David Wahl (Zoology, 1988)
 M.S.
Joan Bradley (Zoology, 1990-1991)
Mary Bremigan (Zoology, 1989-1991)
Robert Fletcher (Zoology, 1989-1991)
Thomas Schneider (Natural Resources, 1989-1991)
James Markham (Natural Resources, 1988-1990)
Lillian True (Zoology, 1988-1990)
 M.S. Thesis Committee (defense only)
Thomas Bridgeman (Zoology, 1991)
Kyle Hartman (Environmental Biology, 1989)

PROFESSIONAL SERVICE

Committee Service in Professional Societies:

Affirmative Action Committee, member, Equal Opportunities Section, American Fisheries Society, 1989-1991
Associate editor, Transactions of the American Fisheries Society, 1991-1993
Awards Committee, chair, Minnesota Chapter of the American Fisheries Society, 1994-1996
Awards Committee, member, North Central Division of the American Fisheries Society, 1995
Executive Committee, member, Minnesota Chapter of the American Fisheries Society, 1995
Fish and Wildlife Legislative Alliance, board member, representing the Minnesota Chapter of the American Fisheries Society, 1998-2004
J. Francis Allen Scholarship Committee, Equal Opportunity Section, American Fisheries Society chair: 1994 co-chair 2001, member 1990-1993 and 1995-1996
John E. Skinner Memorial Student Travel Award, member, American Fisheries Society, 1992
Mentoring for Professional Diversity in Fisheries Committee, member, Equal Opportunities Section, American Fisheries Society, 1994-1997
North Central Division Representative to the Education Section of the American Fisheries Society, 1997-1998
Paper/Poster Judging Committee, chair, North Central Division of the American Fisheries Society, for Midwest Fish and Wildlife Conference, 1996
President elect, Minnesota Chapter of the American Fisheries Society, 1997
Plenary committee, co-chair, 62nd Annual meeting of the Midwest Fish and Wildlife Conference, 2000
President, Minnesota Chapter of the American Fisheries Society, 1998
Past President, Minnesota Chapter of the American Fisheries Society, 1999
Program Committee, Co-Chair, 50th Midwest Fish and Wildlife Conference, 1988
Program Committee, chair, 2004 annual meeting of the American Fisheries Society, 2002-2004

Program Committee, chair, 2004 annual meeting of the Minnesota Chapter of the Society for Conservation Biology held jointly with the Minnesota Chapter of the American Fisheries Society, 2003-2004

Resolutions Committee, Chair, Ohio Chapter of the American Fisheries Society, 1988-1990

Scholarship Committee, chair, Minnesota Chapter of the American Fisheries Society, 2001-present

Special Committee to Improve Support for the Program Chair, member, appointed by the president of the American Fisheries Society 2002

Other Committee Service:

Great Lakes Panel on Non-indigenous Species, member, Great Lakes Fisheries Commission, representing Division of Cooperative Research Units, 1992-1997

Land Stewardship Project, board member, 2001-present

Minnesota Institute for Sustainable Agriculture, board member, 1996-2001, chair 2001

Manuscript reviewer:

American Midland Naturalist

American Water Resources Association

Archiv für Hydrobiologie

Biological Invasions

Canadian Journal of Fisheries and Aquatic Science

Copeia

Ecology of Freshwater Fish

Environmental Management

Environmental Monitoring and Assessment

Fisheries

Hydrobiologia

Journal of the American Water Resources Association

Journal of Environmental Management

Journal of Fish Biology

Journal of Freshwater Ecology

Journal of Great Lakes Research

North American Journal of Fisheries Management

Proceedings of the Aquatic Plant Management Society

Transactions of the American Fisheries Society

Water Quality Research Journal of Canada

Western North American Naturalist

Wetlands

Book Chapter: *Techniques for the Analysis of Freshwater Habitats*. American Fisheries Society.

Panel Participation:

US Department of Agriculture, Cooperative State, Research, Education and Extension Service, Managed Ecosystems Program, 22-25 April 2002, Washington, D.C.

US Department of Agriculture, Cooperative State, Research, Education and Extension Service,
Managed Ecosystems Program, 16-19 August 2004, Washington, D.C.

Symposium organizer:

- “Ribbons of Life in the Heartland: Riparian Ecosystems in Transition” at the 64th Annual meeting of the Midwest Fish and Wildlife Conference, Kansas City, MO, 8-10 December. Co-organizer. This symposium brought together 3 plenary speakers and included 43 invited presentations, 2003.
- “Riparian Systems: Integrating Ecology, Hydrology, Sociology and Economics”, 61st Midwest Fish and Wildlife Conference, Chicago, Illinois, 1999.
- “Human interactions with aquatic organisms: philosophy, values, and social change,” 127th Annual Meeting of the American Fisheries Society, Monterey, California, 1997.
- “Equal opportunity perspectives for the next decade,” 122nd Annual Meeting of the American Fisheries Society, Rapid City, South Dakota, 1992

Session moderator:

Plenary for a symposium titled “Ribbons of Life in the Heartland: Riparian Ecosystems in Transition” at the 64th Annual meeting of the Midwest Fish and Wildlife Conference, Kansas City, MO, 8-10 December, 2003.

“Terrestrial, Riparian, and aquatic interactions” session in a symposium titled “Ribbons of Life in the Heartland: Riparian Ecosystems in Transition” at the 64th Annual meeting of the Midwest Fish and Wildlife Conference, Kansas City, MO, 8-10 December, 2003.

“Fish Ecology” Annual meeting of the Minnesota Chapter of the American Fisheries Society, Chaska, Minnesota, 2003

“Fish Ecology II” Annual meeting of the North American Benthological Society, LaCrosse, Wisconsin, 2001.

“Contributed papers” Joint meeting of the Minnesota chapters of the American Fisheries Society and the Wildlife Society, St. Cloud, Minnesota, 2000.

“Riparian Systems: Integrating Ecology, Hydrology, Sociology and Economics” 61st Midwest Fish and Wildlife Conference, Chicago, Illinois, 1999.

“Water monitoring and assessment in Minnesota III: assessment and integration,” 5th Biennial Conference on Water Resources in Minnesota, Minneapolis, Minnesota, 1996.

“Equal opportunity perspectives for the next decade,” 122nd Annual Meeting, American Fisheries Society, Rapid City, South Dakota, 1992.

“Methods for estimating abundance and size structure of shad populations in reservoirs,” 46th Annual Conference, Southeastern Association of the Fish and Wildlife Agencies, Corpus Christie, Texas, 1992.

“Salmonid ecology and management,” 121st Annual Meeting, American Fisheries Society, San Antonio, Texas, 1992.

Task Force/Oversight/Advisory Committee:

Technical Advisory Committee, member, Rice Creek Watershed District Hardwood Creek Biological TMDL study. First biological TMDL implemented in Minnesota, 2003-present.

Steering and oversight committee for Landscape, Human, and Animal Health Initiative convened by Minnesota Institute for Sustainable Agriculture, 1995-present

Rosemont Center for Landscape and Community Development Task Force convened by Minnesota Institute for Sustainable Agriculture, 1997

Trout and Salmon Citizen Oversight Committee, board member, report to Minnesota Legislature Environment and Natural Resources Committee, 1997-2001
Eagle Creek Advisory Committee, recommendations for riparian and stream management of Eagle Creek, Savage and Shakopee, Minnesota, 1996.

Other Service:

Panel participant, Graduate Student Workshop, annual meeting of the North American Benthological Society, Athens, Georgia, 27 May 2003
Panel participant, Graduate Student Workshop, annual meeting of the North American Benthological Society, LaCrosse, Wisconsin, 3 June 2001
Panel participant "Transition from traditional fish and wildlife management to conservation biology". Joint meeting of the Minnesota chapters of the American Fisheries Society and the Wildlife Society at St. Cloud, Minnesota, 19-21 January 2000
Panel participant "Lessons learned from the monitoring project" Annual meeting: Center for Holistic Management in Rochester, 16 August 1996
Panel participant "Meeting watershed and farm goals: on-farm monitoring bridges the gap among farmers, resource professionals and researchers" at conference titled "New approaches to rural nonpoint source pollution: what makes them work", LaCrosse, Wisconsin, 17 September 1996
Co-chair and organizer. Assessment of equipment types for sampling shad in Lake Texoma, Oklahoma-Texas. Publications: Eight articles in Special Section of North American Journal of Fisheries Management Vol. 15, Sampling shad in southern impoundments. Research Manual, Reservoir Committee of the American Fisheries Society, Federal Aid in Fish Restoration under Cooperative Agreement No. 14-16-0002-91-216, 1991
Paper Judging, Chapter, Division, and Annual Meetings, American Fisheries Society; Annual Meetings of the North American Benthological Society, 1989-present.