

Clifford E. Kraft

Department of Natural Resources
Cornell University
Ithaca, New York 14853

E-Mail: cek7@cornell.edu
Telephone: 607-255-2775
Website: [Kraft Research Group](#)

EDUCATION

- B.A. Biological Sciences, Cornell University, Ithaca, New York, 1975
- M.S. Oceanography & Limnology, University of Wisconsin-Madison, 1977
(J. F. Kitchell, Supervisory Committee Chair)
- Predoctoral Fellow
Technology & Policy, Massachusetts Institute of Technology, Cambridge,
Massachusetts, 1978
- Ph.D. Oceanography & Limnology, University of Wisconsin, Madison, 1991
(J. F. Kitchell, Supervisory Committee Chair)

EXPERIENCE

- 2017 - Professor, Department of Natural Resources, Cornell University
- 2004 - 2017 Associate Professor, Department of Natural Resources, Cornell University
- 2013 - 2015 Associate Chair, Department of Natural Resources, Cornell University
- 1998 - 2004 Assistant Professor, Department of Natural Resources, Cornell University
- 1981- 1998 Fisheries Specialist, University of Wisconsin Sea Grant Institute, Green Bay,
Wisconsin
- 1991- 1998 Adjunct Assistant Professor, Graduate Program in Environmental Science and
Policy, University of Wisconsin-Green Bay
- 1980 – 1981 Assistant Planner, Humboldt County Planning Dept., Eureka,
California
- 1979 Fisheries Technician, U.S. Fish and Wildlife Service, Arcata,
California
- 1978 – 1979 Coastal Program Analyst, California Coastal Commission,
Eureka, California

PUBLICATIONS (Refereed Journal Articles)

- Kraft, C.C. and E.R. Angert. 2017. Competition for vitamin B1 (thiamin) structures numerous ecological interactions. *Quarterly Review of Biology* 92:151-168. doi: [10.1086/692168](https://doi.org/10.1086/692168)
- Jirka, J.J. and C.E. Kraft. 2017. Diet niche width and individual specialization of Brook Trout in Adirondack lakes. *Transactions of the American Fisheries Society* 146:716-731. doi: [10.1080/00028487.2017.1290680](https://doi.org/10.1080/00028487.2017.1290680)
- Tidball, M., Exler, J., Somanchi, M., Williams, J., Kraft, C.E., Curtis, P., K.G. Tidball. 2017. Toward increasing the legibility of wild-caught foods in the US: brook trout nutritional analysis for inclusion into the USDA national nutrient database for standard reference. *Journal of Food Composition and Analysis* 60:57–63.
- Edwards K.A., Tu-Maung, N., Cheng, K., Wang B., Baeumner A.J., and C.E. Kraft. 2017. Thiamine Assays - Advances, Challenges, and Caveats. *ChemistryOpen*. doi: [10.1002/open.201600160](https://doi.org/10.1002/open.201600160)
- Alexiades, A.V., Flecker, A.S., and C.E. Kraft. 2017. Non-native fish stocking alters stream ecosystem nutrient dynamics. *Ecological Applications*. doi: [10.1002/eap.1498](https://doi.org/10.1002/eap.1498)
- Warren, D.R., C.E. Kraft, D.C. Josephson, and C.T. Driscoll. 2016. Acid rain recovery may help to mitigate the impacts of climate change on thermally sensitive fish in lakes across eastern North America. *Global Change Biology* 23: 2149–2153. doi: [10.1111/gcb.13568](https://doi.org/10.1111/gcb.13568)
- Wang, D., Rudstam, L., Jackson, R., Twining, C., Zollweg-Horan, E., Kraft, C., Lawrence, P., Kothapalli, K. Wang, Z. and J.T. Brenna. 2016. Saturated branched chain, normal odd-carbon-numbered, and polyunsaturated omega-3 fatty acids in freshwater fish in the northeastern United States. *J. Agricultural and Food Chemistry* 64: 7512–7519.
- Alexiades, A.V. and C.E. Kraft. 2016. Effects of stocked trout on stream invertebrate community densities and structure. *Journal of Freshwater Ecology*. doi: <http://dx.doi.org/10.1080/02705060.2016.1248502>
- Edwards, K. A., Seog, W.J., Han, L., Feder, S., Kraft, C.E., A.J. Baeumner. High-throughput detection of thiamine using periplasmic binding protein-based biorecognition. 2016. *Analytical Chemistry* 88:8248–8256. doi: [10.1021/acs.analchem.6b02092](https://doi.org/10.1021/acs.analchem.6b02092)
- Karatayev, V.A., C.E. Kraft and E.F. Zipkin. 2015. Racing through life: maturation rate plasticity regulates overcompensation and increases persistence. *Ecosphere* 6:203. doi: [10.1890/ES14-00513.1](https://doi.org/10.1890/ES14-00513.1)
- Alexiades, A.V., B. Marcy-Quay, P.M. Sullivan and C.E. Kraft. 2015. Measurement error in angler creel surveys. *North American Journal of Fisheries Management* 35:253–261. doi: [10.1080/02755947.2014.996689](https://doi.org/10.1080/02755947.2014.996689)
- Martin, L.J., A.A. Agrawal, and C.E. Kraft. 2015. Historically browsed jewelweed populations exhibit greater tolerance to deer herbivory than historically protected populations. *Journal of Ecology* 103:243-249. doi: [10.1111/1365-2745.12344](https://doi.org/10.1111/1365-2745.12344)

- Martin, L. J., Quinn, J.E., Ellis, E.C., Shaw, M.R., Dorning, M.A., Kraft, C.E., Hallett, L.M., Heller, N.E., Hobbs, R.J., Law, E., Michel, N.L., Perring, M., Shirey, P.D., and R. Wiederholt. 2014. Biodiversity conservation opportunities across the world's anthromes. *Diversity and Distributions*.
- Josephson, D.C., J.M. Robinson, J.A. Chiotti, K.J. Jirka, and C.E. Kraft. 2014. Chemical and biological recovery from acid deposition within the Honnedaga Lake watershed, New York, USA. *Environmental Monitoring and Assessment* 186:4391-4409.
- Kraft, C.E., E.R. Gordon, and E.R. Angert. 2014. A rapid throughput method for assaying thiaminase I activity in diverse biological samples. *Plos One* 9(3):e92688 doi: [10.1371/journal.pone.0092688](https://doi.org/10.1371/journal.pone.0092688)
- Warren, D.R., K.E. Judd, D.L. Bade, G.E. Likens, and C.E. Kraft. 2013. Effects of wood removal on stream habitat and nitrate uptake in two northeastern US headwater streams. *Hydrobiologia* 717:119–131.
- Lepak, J.M., C.E. Kraft, and M.J. Vanni. 2013. Clupeid response to stressors: the influence of environmental factors on thiaminase expression. *Journal of Aquatic Animal Health* 25:90-97. doi: [10.1080/08997659.2013.768560](https://doi.org/10.1080/08997659.2013.768560)
- Tillitt, D.C., C.E. Kraft, D.C. Honeyfield, and J.D. Fitzsimons. 2012. Thiamine deficiency: A viable hypothesis for paralytic syndrome in Baltic birds. Commentary on Sonne et al., 2012. *Science of the Total Environment* 433: 561-562.
- Warren, D.R., J.M. Robinson, D.C. Josephson, D.R. Sheldon and C.E. Kraft. 2012. Elevated summer temperatures delay spawning and reduce redd construction for resident brook trout (*Salvelinus fontinalis*). *Global Change Biology* 18:1804–1811. doi: [10.1111/j.1365-2486.2012.02670.x](https://doi.org/10.1111/j.1365-2486.2012.02670.x)
- Josephson, D.C., Lepak, J.M., Robinson, J.M., and C.E. Kraft. 2012. Rainbow trout performance in food-limited environments: Implications for future assessment and management. *Journal of Freshwater Ecology* 27:159-170.
- Kraft, C.E., D.R. Warren, W.S. Keeton. 2011. Identifying the spatial pattern of wood distribution in northeastern North American streams. *Geomorphology* 135:1-7.
- Honeyfield, D.C., Hanes, J.W., Brown, L., Kraft, C.E. and T.P. Begley. 2010. Comparison of thiaminase activity in fish using the radiometric and 4-nitrothiophenol colorimetric methods. *Journal of Great Lakes Research* 36: 641-645.
- Millward, A.A., Kraft, C.E. and Warren, D.R. 2010. Ice-storm damage greater along the terrestrial-aquatic interface in forested landscapes. *Ecosystems* 13:249–260.
- Warren, D.R., M.M. Mineau, C.E. Kraft, and E.J. Ward. 2010. Relating fish biomass to habitat and chemistry in headwater streams of the northeastern United States. *Environmental Biology of Fishes* 88:51–62.
- Robinson, J.M., D.C. Josephson, B.C. Weidel and C.E. Kraft. 2010. Influence of variable summer water temperatures on brook trout growth, consumption, reproduction and mortality in an

- unstratified Adirondack lake. *Transactions of the American Fisheries Society* 139:685–699.
doi: [10.1577/T08-185.1](https://doi.org/10.1577/T08-185.1)
- Stovall, J.P., Keeton, W.S. and C.E. Kraft. 2009. Riparian forest-stream interactions: variability of forest structure, light, and periphyton along Adirondack streams. *Canadian Journal of Forestry Research* 39:2343–2354.
- Warren, D.R., C.E. Kraft, W.S. Keeton, J.S. Nunery, and G.E. Likens. 2009. Dynamics of wood recruitment in streams of the northeastern U.S. *Forest Ecology and Management* 258:804–813.
- Zipkin, E.F., C.E. Kraft, E.G. Cooch and P.J. Sullivan. 2009. When can efforts to control nuisance and invasive species backfire? *Ecological Applications* 19:1585–1595.
- Lepak, J.M., Robinson, J.M., C.E. Kraft and D.C. Josephson. 2009. Changes in mercury bioaccumulation in an apex predator in response to removal of an introduced competitor. *Ecotoxicology* 18:488–498. doi: [10.1007/s10646-009-0306-5](https://doi.org/10.1007/s10646-009-0306-5)
- Lepak, J.M., H.A. Shayler, C.E. Kraft and B.A. Knuth. 2009. Mercury contamination in sport fish in the northeastern United States: Considerations for future data collection. *Bioscience* 59:174–181.
- Josephson, D.C., J.M. Robinson, B.C. Weidel and C.E. Kraft. 2008. Long-term retention and visibility of visible implant elastomer tags in brook trout. *North American Journal of Fisheries Management* 28:1758–1761.
- Zipkin, E.F., P.J. Sullivan, E.G. Cooch, C.E. Kraft, B.J. Shuter and B.C. Weidel. 2008. Overcompensatory response of a smallmouth bass population to harvest: release from competition? *Canadian Journal of Fisheries and Aquatic Sciences* 65:2279–2292.
- Warren, D.R., G.E. Likens, D.C. Buso, and C.E. Kraft. 2008. Status and distribution of fish in an acid-impacted watershed of the northeastern United States (Hubbard Brook, NH). *Northeastern Naturalist* 15:375–390.
- Warren, D.R. and C.E. Kraft. 2008. Dynamics of large wood in an eastern U.S. mountain stream. *Forest Ecology and Management*. 256:808–814.
- Lepak, J.M., C.E. Kraft, D.C. Honeyfield and S.B. Brown. 2008. Evaluating the effect of stressors and immunosuppression on thiaminase in alewife. *Journal of Aquatic Animal Health* 20:63–71.
doi: [10.1577/H07-026.1](https://doi.org/10.1577/H07-026.1)
- Lepak, J.M. and C.E. Kraft. 2008. Alewife mortality, condition and immune response to prolonged cold temperatures. *Journal of Great Lakes Research* 34:134–142.
- Warren, D.R., W.S. Keeton, and C.E. Kraft. 2008. A comparison of line-intercept and census techniques for assessing large wood volume in streams. *Hydrobiologia* 598:123–130.
- Hanes, J.W., Kraft, C.E. and T.P. Begley. 2007. An assay for thiaminase I in complex biological samples. *Analytical Biochemistry* 368:33–38.
- Principe, N.D., C.E. Kraft, and E.L. Mills. 2007. Gastric evacuation and daily ration of naturally

- produced age-0 Chinook salmon *Oncorhynchus tshawytscha* in Lake Ontario. Transactions of the American Fisheries Society 136:1206–1215.
- Weidel, B.C., C.E. Kraft and D.C. Josephson. 2007. Littoral fish community response to smallmouth bass removal from an Adirondack lake. Transactions of the American Fisheries Society 136:778-789.
- Keeton, W.S., C.E. Kraft and D.R. Warren. 2007. Structure and dynamics of old-growth riparian forests and effects on low order Adirondack stream habitats. Ecological Applications 17:852-868.
- Warren, D.R. and C.E. Kraft. 2006. Invertebrate community and stream substrate responses to woody debris removal from an ice-storm-impacted stream system, NY USA. Hydrobiologia 568:477–488.
- Lepak, J.M., C.E. Kraft and B.C. Weidel. 2006. Rapid food web recovery in response to removal of an introduced apex predator. Canadian Journal of Fisheries and Aquatic Sciences 63:569-575.
- Johnson, L.E, J.M. Bossenbroek and C.E. Kraft. 2006. Patterns and pathways of the post-establishment spread of non-indigenous aquatic species across multiple spatial and temporal extents: the slowing invasion of inland lakes by the zebra mussel. Biological Invasions 8:475-489.
- Warren, D.R., S.D. Sebestyen, D.C. Josephson, J.M. Lepak, C.E. Kraft. 2005. Acidic groundwater discharge and *in situ* egg survival in lake spawning brook trout (*Salvelinus fontinalis*) redds. Transactions of the American Fisheries Society 134:1193–1201.
- Smith, T.A. and C.E. Kraft. 2005. Stream fish assemblages in relation to landscape position and local habitat variables. Transactions of the American Fisheries Society 134:430–440.
- Millward, A.A. and C.E. Kraft. 2004. Physical influences of landscape on a large-extent ecological disturbance: the northeastern North American ice storm of 1998. Landscape Ecology 19:99-111.
- Warren, D.R. and C.E. Kraft. 2003. Brook trout (*Salvelinus fontinalis*) response to wood removal from high-gradient streams of the Adirondack Mountains (N.Y., U.S.A.). Canadian Journal of Fisheries and Aquatic Sciences 60:379-389.
- Kraft, C.E. and D.R. Warren. 2003. Development of spatial pattern in large woody debris and debris dams in streams. Geomorphology 51:127-139.
- Kraft, C.E., R.L. Schneider, and D.R. Warren. 2002. Ice storm impacts on woody debris and debris dam formation in northeastern U.S. streams. Canadian Journal of Fisheries and Aquatic Sciences 59:1677-1684.
- Kraft, C.E., P.J. Sullivan, A.Y. Karatayev, L.E. Burlakova, J.C. Nekola, L.E. Johnson, and D.K. Padilla. 2002. Landscape patterns of an aquatic invader: Assessing dispersal extent from spatial distributions. Ecological Applications 12:749-759.
- Nekola, J.C. and C.E. Kraft. 2002. Spatial constraint of peatland butterfly occurrences within a

- heterogeneous landscape. *Oecologia* 130: 53-61.
- Bossenbroek, J.M., C.E. Kraft and J.C. Nekola. 2001. Prediction of long-distance dispersal using gravity models: Zebra mussel invasion of inland lakes. *Ecological Applications* 11:1778-1788.
- Kraft, C.E. and L.E. Johnson. 2000. Regional differences in rates and patterns of North American inland lake invasions by zebra mussels. *Canadian Journal of Fisheries and Aquatic Sciences* 57:993-1001.
- Jonas, J.L., T.L. Margenau and C.E. Kraft. 1996. Assessment of seasonal changes in caloric density and condition in age-0 and -1 muskellunge. *Transactions of the American Fisheries Society* 125:203-210.
- Hutchison, R. and C.E. Kraft. 1994. Hmong fishing activity and fish consumption. *Journal of Great Lakes Research* 20:471-478.
- Kraft, C.E. 1993. Phosphorus regeneration by Lake Michigan alewives in the mid-1970s. *Transactions of the American Fisheries Society* 122:749-755.
- Hewett, S.W. and C.E. Kraft. 1993. The relationship between growth and consumption in fishes. *Transactions of the American Fisheries Society* 122:814-821.
- Kraft, C.E. 1992. Estimates of phosphorus and nitrogen cycling by fish using a bioenergetics approach. *Canadian Journal of Fisheries and Aquatic Sciences* 49:2596-2604.
- Kraft, C.E. 1992. Early-warning detection of zebra mussels, p. 705-714. *In* D. Schloesser and T. Nalepa [ed.] *Zebra Mussels: Biology, Impacts and Control*, Lewis Publishers, Ann Arbor, Mich.
- McQueen, D. J., R. France and C.E. Kraft. 1992. Confounded impacts of planktivorous fish on freshwater biomanipulations. *Archiv für Hydrobiologie* 125:1-24.
- Carpenter, S.R., C.E. Kraft, R. Wright, X. He, P.A. Soranno, J.R. Hodgson. 1992. Resilience and resistance of a lake phosphorus cycle before and after food web manipulation. *American Naturalist* 140:781-798.
- Kraft, C.E. and B.L. Johnson. 1992. Fyke-net and gill-net size selectivities for yellow perch in Green Bay, Lake Michigan. *North American Journal of Fisheries Management* 12:230-236.
- Hewett, S.W., C.E. Kraft, and B.L. Johnson. 1991. Consumption, growth and allometry: a comment on Boisclair and Leggett (1989a, 1989b, 1989c, 1989d). *Canadian Journal of Fisheries and Aquatic Sciences* 48:1334-1337.
- Kraft, C.E. and J.F. Kitchell. 1986. Partitioning of food resources by sculpins in Lake Michigan. *Environmental Biology of Fishes* 16:309-316.

PUBLICATIONS (Book Chapters)

-
- Wright, R.A. and C.E. Kraft. 2012. Stocking strategies for recreational small impoundments. Pages 155-180 *in* J. W. Neal and D.W. Willis, editors. *Management of small impoundments*. American Fisheries Society, Bethesda, Maryland.

OTHER PUBLICATIONS

- Kraft, C.E. 2016. Building on the Foundation: The Future of the Adirondack Fishery Research Program. Pages 31-33 *in* D.C. Josephson and M.C. Webster, editors. The Adirondack Fishery Research Program: Dr. Dwight A. Webster's Legacy. Adirondack League Club, Old Forge, New York.
- Josephson, D.C., K.J. Jirka, and C.E. Kraft. 2016. Adirondack League Club: Fishery Research and Management Report 2015. Adirondack Fishery Research Program, Cornell University, Ithaca, NY 44 pp.
- Josephson, D.C., Jirka, K.J., and C.E. Kraft. 2016. Wilmurt Lake Club: Fishery Research and Management Report for 2015. Adirondack Fishery Research Program, Cornell University, Ithaca, NY 25 pp.
- Josephson, D.C., K.J. Jirka, and C.E. Kraft. 2015. Adirondack League Club: Fishery Research and Management Report 2014. Adirondack Fishery Research Program, Cornell University, Ithaca, NY 39 pp.
- Josephson, D.C., Jirka, K.J., N.T. Daniel, M.H. Meek and C.E. Kraft. 2015. Wilmurt Lake Club: Fishery Research and Management Report for 2014. Adirondack Fishery Research Program, Cornell University, Ithaca, NY 18 pp.
- Josephson, D.C., Jirka, K.J., and C.E. Kraft. 2014. Adirondack League Club: Fishery Research and Management Report 2013. Adirondack Fishery Research Program, Cornell University, Ithaca, NY 32 pp.
- Josephson, D.C., Jirka, K.J., Daniel, N.T. and C.E. Kraft. 2014. Wilmurt Lake Club: Fishery Research and Management Report for 2013. Adirondack Fishery Research Program, Cornell University, Ithaca, NY 21 pp.
- Josephson, D.C., Jirka, K.J., and C.E. Kraft. 2013. Adirondack League Club: Fishery Research and Management Report 2012. Adirondack Fishery Research Program, Cornell University, Ithaca, NY 32 pp.
- Josephson, D.C., Jirka, K.J., and C.E. Kraft. 2013. Wilmurt Lake Club: Fishery Research and Management Report for 2012. Adirondack Fishery Research Program, Cornell University, Ithaca, NY 13 pp.
- Josephson, D.C., Jirka, K.J., and C.E. Kraft. 2012. Adirondack League Club: Fishery Research and Management Report 2011. Adirondack Fishery Research Program, Cornell University, Ithaca, NY 35 pp.
- Josephson, D.C., Jirka, K.J., and C.E. Kraft. 2012. Wilmurt Lake Club: Fishery Research and Management Report for 2011. Adirondack Fishery Research Program, Cornell University, Ithaca, NY 14 pp.

- Josephson, D.C., C.E. Kraft. 2011. Adirondack League Club: Fishery Research and Management Report 2010. Adirondack Fishery Research Program, Cornell University, Ithaca, NY 52 pp.
- Jirka, K.J., L.G. Rudstam and C.E. Kraft. 2011. Biological Assessment of Silver Lake. Department of Natural Resources, Cornell University, Ithaca, NY. 15 pp.
- Wolfe, D. W., Chabot, B. F., Curtis, P. D., Kraft, C. E., Menninger, H., Sullivan, K. L., Weinstein, D. A., Comstock, J. 2010. In David Wolfe (Ed.), Ecosystem Sector: NYSERDA Climate Change Report. Albany, NY: NYS Energy Research and Development Authority.
- Josephson, D.C., C.E. Kraft. 2010. Adirondack League Club: Fishery Research and Management Report 2009. Adirondack Fishery Research Program, Cornell University, Ithaca, NY 36 pp.
- Jirka, K.J., L.G. Rudstam and C.E. Kraft. 2010. Biological Assessment of Silver Lake: 2009. Department of Natural Resources, Cornell University, Ithaca, NY. 20 pp.
- Josephson, D.C. and C.E. Kraft. 2009. Adirondack League Club: Fishery Research and Management Report for 2008. Adirondack Fishery Research Program, Cornell University, Ithaca, NY 44 pp.
- Josephson, D.C. and C.E. Kraft. 2009. Rock Lake Club: Fishery Research and Management Report for 2008. Adirondack Fishery Research Program. Cornell University, Ithaca, NY 14 pp.
- Josephson, D.C. and C.E. Kraft. 2009. Wilmurt Lake Club: Fishery Research and Management Report for 2008. Adirondack Fishery Research Program, Cornell University, Ithaca, NY 16 pp.
- Jirka, K.J., L.G. Rudstam and C.E. Kraft. 2009. Biological Assessment of Silver Lake: 2008. Department of Natural Resources, Cornell University, Ithaca, NY. 17 pp.
- Josephson, D.C., C.E. Kraft. and J.M. Robinson. 2008. Adirondack League Club: Fishery Research and Management Report for 2007. Adirondack Fishery Research Program, Cornell University, Ithaca, NY 54 pp.
- Josephson, D.C. and C.E. Kraft. 2008. Wilmurt Lake Club: Fishery Research and Management Report for 2007. Adirondack Fishery Research Program, Cornell University, Ithaca, NY 11 pp.
- Jirka, K.J. and C.E. Kraft. 2008. Biological Assessment of Silver Lake: 2007. Department of Natural Resources, Cornell University, Ithaca, NY. 16 pp.
- Kraft, C.E. 2007. Concerns Over Native Coldwater Fish. *In*: Frumhoff, P.C., J.J. McCarthy, J.M. Melillo, S.C. Moser, and D.J. Wuebbles. 2007. Confronting Climate Change in the U.S. Northeast: Science, Impacts, and Solutions. Synthesis report of the Northeast Climate Impacts Assessment (NECIA). Cambridge, MA: Union of Concerned Scientists (UCS). Pp. 56-57.
- Ochterski, J., B. Swistock, C. Kraft and R. Schneider. 2007. The Pond Guidebook (NRAES Publication #178). Natural Resource, Agricultural and Engineering Service, Ithaca, NY. 78 pp.
- Kraft, C.E., D.C. Josephson and J.M. Robinson. 2007. Adirondack League Club: Fishery Research and Management Report for 2006. Adirondack Fishery Research Program, Cornell University, Ithaca, NY 36 pp.

- Kraft, C.E. and D.C. Josephson. 2007. Wilmurt Lake Club: Fishery Research and Management Report for 2006. Adirondack Fishery Research Program, Cornell University, Ithaca, NY 18 pp.
- Kraft, C.E. and J.M. Lepak. 2007. A Biological Assessment of Silver Lake. Department of Natural Resources, Cornell University, Ithaca, NY. 21 pp.
- Kraft, C.E. and D.C. Josephson. 2006. Adirondack League Club: Fishery Research and Management Report for 2005. Adirondack Fishery Research Program, Cornell University, Ithaca, NY 36 pp.
- Kraft, C.E. and D.C. Josephson. 2006. Rock Lake Club: Fishery Research and Management Report for 2005. Adirondack Fishery Research Program, Cornell University, Ithaca, NY 14 pp.
- Kraft, C.E. and D.C. Josephson. 2006. Wilmurt Lake Club: Fishery Research and Management Report for 2005. Adirondack Fishery Research Program, Cornell University, Ithaca, NY 18 pp.
- Goettel, M.T. and C.E. Kraft. 2006. A Biological Assessment of Silver Lake. Department of Natural Resources, Cornell University, Ithaca, NY. 26 pp.
- Keeton, W.S., C.E. Kraft, D.R. Warren, and A.A. Millward. 2005. Effects of old-growth riparian forests on Adirondack stream systems. Pages 39-43 in: K.P. Bennett (tech. ed.). Moving toward sustainable forestry: lessons from old-growth forests. Proceedings of the 6th eastern old-growth conference, Moultonborough, NH. University of New Hampshire Cooperative Extension Natural Resource Network Report.
- Weidel, B.C. and C.E. Kraft. 2005. A Review of Fisheries and Fish Habitat in Silver Lake, Pennsylvania. Dept. Nat. Res., Cornell University, Ithaca, NY. 25 pp.
- Kraft, C.E. 2004. Pond Management: An Evaluation of Web-Based Information Delivery. *Journal of Extension* [On-line], 42(1). Available at: <http://www.joe.org/joe/2004february/a3.shtml>
- Josephson, D.C., C.E. Kraft, and T.J. Patronski. 2002. Lake Outlet Blocks as A Management Tool for Stocked Trout and Salmon: A Guide for Lake Managers. Dept. Nat. Res., Cornell University, Ithaca, NY. 12 pp.
- Kraft, C.E. 2002. Calculating Water Volume in Ponds. "Commercial Farm Pond Management" series fact sheet. Cornell Cooperative Extension. 2 pp.
- Kraft, C.E. 2000. From Far Above Cayuga's Waters: 50 years of Trout Research and Management in the Adirondacks. *In* 50 Years of Cooperative Fisheries Management: a Cornell University/Adirondack League Club Partnership (T. Comstock, editor). Adirondack League Club, Old Forge, NY. 6 pp.
- Schneider, R., Kraft, C., Mills, E., Holeck, K., McNamara, R., Henke, J., and Johnson, R. 1999. Oneida Lake's Aquatic Plants: Weeds to some, Habitat to Others. Dept. Nat. Res., Cornell University, Ithaca, NY. 8 pp.
- Mills, E., Holeck, K., Schneider, R., Kraft, C., Johnson, R., McNamara, R., Henke, J., and Whitford, A. 1999. Aquatic Plants and Oneida Lake. Dept. Nat. Res., Cornell University, Ithaca, NY. 12 pp.

- Kraft, C.E. 1999. Fish in Ponds and Lakes: Making Good Management Choices. Dept. Nat. Res, Cornell University, Ithaca, NY. 6 pp.
- Kraft, C.E. 1998. Review of "The Ecological Detective: Confronting Models with Data." Transactions of the American Fisheries Society 127:337.
- Kraft, C.E. 1990-97. Zebra Mussel Updates #1-30.
- Harris, H.J. and C.E. Kraft. 1993. The State of the Bay: A Watershed Perspective. UW-Green Bay Institute for Land and Water Studies. 16 pp.
- Kraft, C.E. 1993. From the Front Line of an Invasion: Zebra Mussels in the Great Lakes. Current: the Journal of Marine Education 12:34-37.
- Kraft, C.E., M. Balcer, J. Jonas, A.H. Miller, H. Pearson, and C.W. Ramcharan. 1991. Watching for zebra mussels: why can't we find them if they're already here? (*Abstract*) Journal of Shellfish Research 10:257.
- Kraft, C.E. 1990. Effects of Fyke Net Mesh Size on Legal and Sublegal Catch in the Green Bay Commercial Yellow Perch Fishery, 1985-86. Wisconsin Department of Natural Resources Fisheries Management Series, Report Number 146.
- Kraft, C.E. 1990. Where The Buoys Are: Avoiding Commercial Fishing Nets. UW Sea Grant Institute. WIS-SG-90-428-12. 3 pp.
- Kraft, C.E. 1983-85. "Baywatch": a regionally-distributed newspaper column on resource and research-related topics.
- Kraft, C.E. 1983. The Early Origins of the French and British Names for the Bay of Green Bay, Lake Michigan. Voyageur: the Journal of Northeastern Wisconsin History 1:25-32.
- Kraft, C.E. 1982. Green Bay's Yellow Perch Fishery. UW Sea Grant Institute. 12pp.

OUTREACH WEB SITES

[Vitamin B1 \[Thiamine\] Deficiency](#)

Edwards, K. A. and C.E. Kraft. 2017. Vitamin B1 Deficiency in Environmental and Human Health Contexts. Version 1.0. Dept. of Natural Resources, Cornell University, Ithaca, NY

[Fishes of New York](#)

Kraft, C.E., D.M. Carlson, and S.C. Brown. 2005. The On-line Fishes of New York State, Version 3.0. Dept. of Natural Resources, Cornell University, Ithaca, NY

RESEARCH GRANTS AWARDED

- Improving Brook Trout Conservation by Predicting Responses to Climate (NY). (Kraft, principal investigator), National Fish and Wildlife Foundation (3/01/2016 – 2/28/2017): \$63,060.20.
- Adirondack Fishery Research Program: Memorandum of understanding and gift agreement (Kraft, principal investigator), The Adirondack League Club (1/1/2016-12/31/2019): \$260,000.
- Conserving fish species by understanding local adaptation and predicting responses to climate change. (Kraft, co-principal investigator with Matt Hare), Society for Conservation Biology (3/01/2015 – 2/28/2017): \$222,096.
- Development of rapid tests for fish health in the Great Lakes and Finger lakes. (Kraft, co-principal investigator with A. Bauemner), Great Lakes Fishery Trust (10/01/2013 – 09/30/2015): \$282,846.
- Whole-Ecosystem Restoration Through Liming of Honnedaga Lake Tributary Watersheds (Kraft, co-principal investigator with G. Lawrence, USGS; C. Beier, SUNY-ESF; & B. Baldigo, USGS), The New York State Energy Research and Development Authority (10/01/13-09/30/16): \$50,916/\$387,786 (Cornell/Total project budget).
- Doctoral Dissertation Research (Laura Martin): Ecological science and natural resource management in the United States. (Kraft, principal investigator), National Science Foundation. (9/1/2013 to 8/31/2014):\$7,660
- Adirondack Fishery Research Program: Memorandum of understanding and gift agreement (Kraft, principal investigator), The Adirondack League Club (1/1/2012-12/31/2015): \$260,000.
- Fish stocking reductions as a mitigation strategy to protect coldwater fisheries in a warming climate (Kraft, principal investigator), Cooperative State Research, Education and Extension Service, U.S. Dept. of Agriculture. (10/1/2011 to 9/31/2016): \$75,000.
- Adirondack brook trout conservation and management in a changing climate (Kraft, principal investigator), Cooperative State Research, Education and Extension Service, U.S. Dept. of Agriculture. (10/1/2008 to 9/31/2011): \$75,000.
- Characterization of the bacterial populations and thiaminase gene expression associated with alewife (Angert, principal investigator; Kraft, associate investigator), Cooperative State Research, Education and Extension Service, U.S. Dept. of Agriculture. (10/1/2008 to 9/31/2011): \$75,000.
- Managing sources of uncertainty for sustainable resource management (Cooch, principal investigator; Kraft, one of eight co-p.i.'s), Cornell Center for a Sustainable Future (1/1/2009 to 12/31/2009): \$15,000

Adirondack Fishery Research Program: Memorandum of understanding and gift agreement (Kraft, principal investigator), The Adirondack League Club (1/1/2009-12/31/2011): \$181,500.

Doctoral Dissertation research (Jesse Lepak): Evaluating changes in food web linkages and mercury bioaccumulation by top predators in response to the removal of an introduced predator. (Kraft, principal investigator), National Science Foundation. (6/1/2007 to 5/31/2008):\$11,085

Estimating wood volume in northern forest streams in response to forest age, landscape position and anthropogenic disturbance. (Kraft, principal investigator), U.S. Forest Service, USDA, (7/14/2006 to 12/31/2007): \$20,000.

Evaluating effects of warm summer conditions on brook trout growth and survival in Adirondack lakes. (Kraft, principal investigator), New York State Office of the Attorney General. (9/1/2005 to 8/31/2006): \$14,349

Wood addition as a management tool to reduce nutrient and sediment export from forested streams. (Kraft, principal investigator), Cooperative State Research, Education and Extension Service, U.S. Dept. of Agriculture. (10/1/2005 to 9/31/2008): \$117,500.

Evaluating the Influence of Recreational Flow Releases on Hydrology, Temperature, and Biological Resources of the Indian and Hudson Rivers. (Kraft, principal investigator; M. Richmond, co-principal investigator), US Geological Survey. (5/15/2005 to 9/30/2007): \$174,884.

Coldwater fisheries research and management: Prediction of groundwater inputs in Adirondack brook trout lakes and ponds. (Kraft, principal investigator), New York Department of Environmental Conservation. (4/1/2005 to 3/31/2008): \$104,100.

Evaluating the effects of environment and stressors on thiaminase expression in alewife (Kraft, principal investigator; T. Begley & D. Honeyfield, co-principal investigators), New York Sea Grant College Program. (2/1/2004 to 1/31/2006): \$ 186,651.

Adirondack round whitefish restoration (Kraft, principal investigator), New York Department of Environmental Conservation. (4/1/2004 to 8/31/2006): \$100,000.

Adirondack Fishery Research Program: Memorandum of understanding (Kraft, principal investigator), The Adirondack League Club (1/01/2004-12/31/2008): \$307,500.

Demonstration of integrating instream habitat assessment into local watershed management (Kraft, co-principal investigator; P. Parasiewicz, principal investigator), New York Water Resources Institute. (3/1/2002 to 2/28/2003): \$17,930.

Effects of spatial patterns on fish population dynamics and fisheries (Kraft, co-principal investigator; L. Rudstam, principal investigator plus four additional co-p.i.s), Cooperative State Research, Education and Extension Service, U.S. Dept. of Agriculture. (10/1/01 to 9/31/06): \$125,000.

Beaver Kill watershed trout resources enhancement: Wild trout dynamics (Kraft, principal investigator; P. Sullivan, co-p.i.), New York Department of Environmental Conservation. (4/1/00 to 3/31/04): \$196,389.

Factors affecting early survival and management of Lake Ontario salmonine populations (Kraft, co-principal investigator; P. Sullivan, principal investigator plus four additional co-p.i.s), New York Sea Grant College Program. (2/1/00 - 7/31/02): \$614,584.

Evaluating large-scale relationships between physical habitat and fisheries resources within New York streams and lakes (Kraft, principal investigator), Cooperative State Research, Education and Extension Service, U.S. Dept. of Agriculture. (10/1/99 to 9/31/04): \$117,500.

Adirondack Fishery Research Program: Memorandum of understanding (Kraft, principal investigator), The Adirondack League Club (1/01/99-12/31/2003): \$250,000.

Ice storm impacts on streamsid es and aquatic habitats of northern New York (Kraft, co-principal investigator; P. Smallidge, principal investigator plus five additional co-p.i.s), U.S. Forest Service. (10/1/98 -8/30/02): \$208,008 (budget for stream project component).

Coldwater fisheries research and management (Kraft, co-principal investigator; P. Sullivan, principal investigator), New York Department of Environmental Conservation. (4/1/98 - 3/31/04): \$199,047.

Recruitment decline of yellow perch in Green Bay, Lake Michigan: Evaluation of environmental influences and predation (Kraft, co-principal investigator; Fred Binkowski, principal investigator), Wisconsin Sea Grant College Program (3/1/98 – 2/28/00): \$76,056.

Optimizing zebra mussel control and preventing dispersal through improved veliger detection using an rRNA probe (Kraft, principal investigator; S. Nierzwicki-Bauer & M. Frischer, co-p.i.s), National Sea Grant College Program Program (3/1/98 – 2/28/00): \$257,625.

An assessment of the overland dispersal of zebra mussels into inland North American lakes (Kraft, principal investigator; L. Johnson, co-p.i.), National Sea Grant College Program (9/1/94 - 8/31/97): \$109,645.

Temporal variation in the lower Green Bay fish community: Evaluating the impacts of remedial action (Kraft, co-principal investigator; P.A. Cochran, principal investigator), University of Wisconsin Sea Grant College Program (9/1/92 - 8/31/94): \$90,011.

Fish consumption habits of subsistence anglers (Kraft, principal investigator), University of Wisconsin Sea Grant College Program (1989): \$1,924.

Yellow perch fyke net gear assessment (Kraft, principal investigator), University of Wisconsin Sea Grant College Program (1986): \$4,578.

Yellow perch fyke net gear assessment (Kraft, principal investigator), University of Wisconsin Sea Grant College Program (1985): \$12,868.

RESEARCH GRANTS NOT AWARDED

Northeast Climate Science Center (Kraft Cornell co-PI with Art DeGaetano, along with co-PIs at

two additional co-host institutions, the Universities of Illinois and Connecticut), proposed for funding by U.S. Department of Interior (10/1/2011-9/30/16): \$1.5 million Cornell budget. This was one of two proposals approved for a site visit, though the regional center was awarded to the other remaining proposal.

EDUCATION GRANTS AWARDED

Cornell Doris Duke Conservation Fellows Program (Kraft, principal investigator), Woodrow Wilson National Fellowship Foundation (7/1/2009-6/30/12): \$142,453.

Cornell Doris Duke Conservation Fellows Program (Kraft, principal investigator), Woodrow Wilson National Fellowship Foundation (1/31/2007-6/30/2009): \$141,805.

OUTREACH GRANTS AWARDED

Farm ponds: Ensuring functional quality (Kraft, co-principal investigator; J. Ochterski, principal investigator with one other co-p.i.), CALS/CCE Small Farms Task Force (4/1/02 - 12/31/02): \$1,300

The Lake Ontario salmon initiative (Kraft, sole principal investigator), New York Sea Grant Program (10/1/01 - 9/30/02): \$4,492

Aquatic resource web-based education (Kraft, sole principal investigator), W.K. Kellogg Foundation (6/01/01 - 11/30/03): \$44,623

The Lake Ontario initiative: Development of a public participation process (Kraft, co-principal investigator; D. Baker, principal investigator with one other co-p.i.), New York Great Lakes Protection Fund (4/1/01 - 9/30/02): \$16,889

Zebra mussel outreach plan: Citizen volunteers for inland monitoring (Kraft, co-principal investigator; A.H. Miller, principal investigator), National Sea Grant College Program (9/1/95 - 8/31/97): \$63,331.

Zebra mussel outreach plan: "Zebra Mussel Update" newsletter (Kraft, principal investigator), National Sea Grant College Program (9/1/95 - 8/31/97): \$84,973.

Zebra mussel watch: Statewide zebra mussel monitoring and outreach (Kraft, principal investigator), University of Wisconsin Sea Grant College Program (6/1/94 - 8/31/95): \$20,754.

Statewide zebra mussel monitoring and outreach (Kraft, co-principal investigator; A.H. Miller, principal investigator), University of Wisconsin Sea Grant College Program (6/1/93 - 5/31/94): \$30,938.

Statewide zebra mussel monitoring and outreach (Kraft, co-principal investigator; A.H. Miller, principal investigator), University of Wisconsin Sea Grant College Program (6/1/92 - 5/31/93): \$30,145.

Statewide zebra mussel monitoring and outreach (Kraft, co-principal investigator; A.H. Miller, principal investigator), Fort Howard Paper Company (5/1/92 - 4/30/93): \$8378.

Statewide zebra mussel monitoring and outreach (Kraft, co-principal investigator; A.H. Miller, principal investigator), Wisconsin Public Service Corporation (5/1/92 - 4/30/93): \$5000.

Statewide zebra mussel monitoring and outreach (Kraft, co-principal investigator; A.H. Miller, principal investigator), University of Wisconsin Sea Grant College Program (4/1/91 - 5/31/92): \$58,816.

Statewide zebra mussel monitoring and outreach (Kraft, co-principal investigator; A.H. Miller, principal investigator), University of Wisconsin Sea Grant College Program (4/15/90 - 3/31/91): \$32,101.

INVITED PRESENTATIONS

Invited Seminar Speaker, "Pathogenicity and ecosystem disruption from ecological competition for B vitamins" (Oregon State University Department of Fisheries and Wildlife, Corvallis, OR; February 22, 2016)

Invited Symposium Speaker, "Pathogenicity and ecosystem disruption from ecological competition for B vitamins" (2015 Finger Lakes Research Conference; Geneva NY; November 12, 2015).

Invited Seminar Speaker, "Fisheries in an Ecosystem Context: Acid Rain in the Adirondack Mountains" (Colgate University Department of Environmental Studies, Hamilton, NY; October 30, 2015)

Invited Symposium Speaker, "Chemical and Biological Recovery From Acid Deposition Within the Honnedaga Lake Watershed, New York, USA" (Society for Freshwater Science annual meeting, Milwaukee, WI; May 18, 2015)

Invited Symposium Speaker, "Aquatic ecosystem restoration in the Adirondack mountain region of New York, USA" (Conference on "Approaches for Rebuilding Integrity of the Haihe River Basin"; Beijing, China; July 8, 2015)

Invited Symposium Speaker, "Pathogenicity and ecosystem disruption from ecological competition for B vitamins" (Conference on "Approaches for Rebuilding Integrity of the Haihe River Basin"; Beijing, China; July 8, 2015)

Invited Symposium Speaker, "Sixty years of angler information from Adirondack waters" (New York Chapter of American Fisheries Society annual meeting, Geneva, NY; February 6, 2014)

Invited Symposium Speaker, "Elevated Summer Temperatures Delay and Reduce Spawning by Resident Brook Trout (*Salvelinus fontinalis*)" (Northeastern Natural History Conference, Springfield, MA; April 14, 2013)

Invited Symposium Speaker, "60 Years of Adirondack Fisheries Research at Cornell" (Northeast Fish and Wildlife Research Conference, Saratoga Springs, NY; April 8, 2014)

Invited Seminar Speaker, "Thiamine Deficiency and Reproductive Failure in Great Lakes Fishes: New Insights Regarding an Unsolved Mystery" (Dept. of Microbiology, Cornell University, Ithaca, NY; February 14, 2013)

Invited Seminar Speaker, "Thiamine Deficiency and Reproductive Failure in Great Lakes Fishes: New Insights Regarding an Unsolved Mystery" (Dept. of Biology, Buffalo State University, Buffalo, NY; December 6, 2012)

Invited Workshop Speaker, "A rapid throughput method for assaying thiaminase I activity in diverse biological samples" (GLFC/USGS Thiamine Deficiency Workshop, Ann Arbor, MI; September 13, 2012)

Invited Symposium Speaker, "Elevated summer temperatures delay spawning and reduce redd construction for resident brook trout (*Salvelinus fontinalis*)". (Society for Freshwater Science Annual meeting, Louisville, KY; May 24, 2012)

Invited Workshop Speaker, "Microbial control of thiaminase and thiamin deficiency in aquatic food webs" (Thiamine Deficiency Complex Workshop, Ann Arbor, MI; September 28, 2010)

Invited Symposium Speaker, "Long-term ecosystem and population responses to the large-scale removal of a dominant non-native piscivore from lake ecosystems". (ASLO/NABS Annual meeting, Santa Fe, NM; June 8, 2010)

Invited Seminar Speaker, "Riparian Forest Influences on Wood in Aquatic Ecosystems" (Harvard Forest, Harvard University, Petersham, MA; February 5, 2010)

Invited Seminar Speaker, "When can efforts to control nuisance and invasive species backfire?" (Dept. of Natural Resources, Cornell University, Ithaca, NY; September 1, 2009)

Invited Workshop Speaker, "The Ecological Role of Thiaminase in Aquatic Ecosystems: Mechanistic Insights from Molecular Biology" (Fish Health and Ecosystem Dysfunction Workshop, Ann Arbor, MI; November 7, 2008)

Invited Seminar Speaker, "Adirondack fisheries in an ecosystem context" (Dept. of Biology, Hobart & William Smith Colleges, Geneva, NY; October 31, 2008)

Invited Seminar Speaker, Wildlife Conservation Research Symposium, "From fish to wildlife: The role of thiamin deficiency in animal conservation" (Cornell College of Veterinary Medicine, Ithaca, NY; October 17, 2008)

Invited Seminar Speaker, "Thiamine deficiency and fish mortality: Microbial mediation of ecosystem interactions?" (Dept. of Biological Sciences, Idaho State University, Pocatello, ID; February 28, 2008)

Invited Seminar Speaker, "Alewife, Thiamine Deficiency and Fish Mortality: A Microbially Mediated Ecosystem Interaction?" (Biocomplexity and Biogeochemistry Seminar Series,

Cornell University; 2/02/07)

Invited Seminar Speaker, "Alewife, Thiamine Deficiency and Fish Mortality: Evaluating the Effects of Environment and Stressors on Thiaminase Expression" (Department of Biology, Queens University, Kingston, Ontario; 11/01/06)

Invited Seminar Speaker, "Effects of Smallmouth Bass Removal on Adirondack Fish Communities" (NY State Department of Environmental Conservation "Fish, Wildlife and Marine Resources Seminar Series", Albany NY; 3/31/06)

Invited Seminar Speaker, "Alewife, Thiamine Deficiency and Fish Mortality: Evaluating the Effects of Environment and Stressors on Thiaminase Expression" (Department of Biological Sciences, Buffalo State College, Buffalo, NY; 3/09/06)

Invited Speaker, "Fisheries Management in Forested Stream Systems" (Forest Management undergraduate class, School of Natural Resources, University of Vermont, Burlington, VT; 2/13/06)

Kraft, C.E.. Factors influencing thiaminase levels in gizzard shad. (Early mortality syndrome workshop, Ann Arbor, MI; 9/22/05)

Kraft, C.E.. Large-extent influences of the 1998 ice storm upon northeastern U.S. lakes and streams (Department of Biological Sciences, SUNY-Plattsburgh, Plattsburgh, NY; 3/31/05)

Kraft, C.E. Landscape pattern of aquatic invaders: Assessing the extent of zebra mussel dispersal from spatial distributions (Invited Seminar, Department of Biological Sciences, SUNY-Potsdam, Potsdam, NY; 12/04/03)

Kraft, C.E. Influences of the 1998 ice storm along the aquatic-terrestrial boundary (Invited Seminar, Institute of Ecosystem Studies, Millbrook, NY; 2/07/03)

Kraft, C.E. Landscape pattern of aquatic invaders: Assessing the extent of zebra mussel dispersal from spatial distributions (Invited Seminar, Department of Biological Sciences, University of Windsor, Windsor, ON; 1/24/03)

Kraft, C.E. Influences of the 1998 ice storm along the aquatic-terrestrial boundary (Invited Seminar, Department of Biology, McGill University, Montreal, QE; 11/05/02)

Kraft, C.E. Zebra mussels, land snails and fen butterflies: Assessing dispersal extent from spatial distributions (Invited Seminar, Department of Biology, Marist College, Poughkeepsie, NY; 10/29/01)

Kraft, C.E. Studies of Adirondack aquatic systems: Ice storm impacts, food web manipulations, and groundwater impacts on fish (Invited Seminar, Department of Biology, Binghamton University, Binghamton, NY; 10/05/01)

- Kraft, C.E. Zebra mussels, land snails and fen butterflies: Assessing dispersal extent from spatial distributions (Invited Seminar, Department of Biology, Binghamton University, Binghamton, NY; 10/05/01)
- Kraft, C.E. Landscape patterns of aquatic invaders: Assessing the extent of zebra mussel dispersal from spatial distributions (Invited Presentation for Symposium: "The role of spatial extent in ecological pattern and process" at Ecological Society of America annual meeting, Madison, WI; 8/6/01)
- Kraft, C.E. Spatial distribution of biota living in restricted habitats (Invited Seminar, Department of Zoology, Connecticut College, Groton, CT; 3/29/01)
- Kraft*, C.E., R.L. Schneider, D. Kiley and D.R. Warren. The good, the bad and the ugly: Ice storm impacts on streams and streamsides (Invited Presentation at Workshop titled, "Ice, Trees and People: An Integration of Research, Education and Management," Syracuse, NY; 3/28/01)
- Kraft, C.E. Potential ice storm impacts on stream ecosystems (Invited Plenary Presentation at annual meeting of the New York Chapter of the American Fisheries Society, Owego, NY; 1/19/01)
- Kraft, C.E. Assessing rates and patterns of inland lake invasions by zebra mussels (Invited Departmental Seminar, School of Natural Resources, Pennsylvania State University, University Park, PA; 3/21/00)
- Kraft, C.E. Stock assessment in the Laurentian Great Lakes: Moving inland from the sea (Invited Presentation at Great Lakes Fishery Commission Workshop, "Modeling Tools for Stock Assessment," Ann Arbor, MI; 4/11-12/00)
- Kraft, C.E. Fish impacts on nutrient cycling in limnetic systems: A closer look at fish P (Invited Seminar, Department of Zoology, Ohio State University, Columbus, OH; 1/21/93)

CONTRIBUTED CONFERENCE PRESENTATIONS (*presenter)

- Kraft, C.E., Warren, D.R, J.M. Robinson, D.C. Josephson, D.R. Sheldon. Impact of lake stratification and variable climate on brook trout reproduction. (Annual meeting of American Fisheries Society, Quebec City, QC; 8/19/14)
- Kraft*, C.E., Josephson, D.C., Siemion, J., Baldigo, B., George, S. Response of stream chemistry and young-of-year brook trout to lime applications in acidified tributaries to Honnedaga Lake. (Annual meeting of American Fisheries Society, Quebec City, QC; 8/19/14)
- Kraft*, C.E., E.R. Angert. Genes to Ecosystems: Widespread mortality in aquatic ecosystems from expression of a vitamin-B1 degrading enzyme. (Joint Aquatic Sciences Meeting, Portland, OR; 5/22/14)
- Kraft*, C.E., E.R. Angert, J.M. Sun and E.R. Gordon. Thiamine Deficiency and Reproductive Failure in Great Lakes Fishes: Experimental Insights Regarding an Unsolved Mystery (Annual meeting of Ecological Society of America, Minneapolis, MN; 8/8/13)

- Kraft*, C.E., Josephson, D.C., Robinson J.R., Chiotti, J.A., and K.J. Jirka. Biological and chemical recovery from acidic deposition within the Honnedaga Lake watershed, New York, USA. (Northeastern Ecosystem Research Conference, Saratoga Springs, NY; 3/19/13)
- Kraft*, C.E., E.R. Angert, and D.C. Honeyfield. Thiamine deficiency and reproductive failure in Great Lakes fishes: New insights regarding an unsolved mystery. (Annual meeting of NY Chapter of American Fisheries Society, Watertown, NY; 2/1/13)
- Kraft*, C.E., Warren, D.R., Robinson J.R., Josephson, D.C., and D. Sheldon. Elevated summer temperatures delay spawning and reduce redd construction for resident brook trout (*Salvelinus fontinalis*). (Adirondack Research Conference IX, Old Forge, NY; 3/08/12)
- Kraft*, C.E. Factors affecting brook trout growth in Adirondack lakes, Adirondack Research Forum VIII (Old Forge, NY; 03/10/11)
- Kraft*, C.E. Fisheries Management in Adirondack Lakes, Adirondack Fisheries Research Program VII (Old Forge, NY; 05/15/10)
- Stovall*, J., W.S. Keeton, and C.E. Kraft. Old-growth riparian forest structure, understory light environment, and periphyton production in low order streams, Adirondack Mountains, NY. (Annual meeting of the Ecological Society of America, San Jose, CA; 8/08/07).
- Keeton*, W.S., C.E. Kraft, and D.R. Warren. Biomass accumulations in mature and old-growth riparian northern hardwood-conifer forests: implications for forest carbon sequestration. (6th North American Forest Ecology Workshop; Vancouver, British Columbia, Canada; 6/20/07)
- Kraft*, C.E., Keeton, W.S., D.R. Warren Structure of old-growth riparian forests and effects on in-stream wood, Adirondack Mountains, New York, U.S.A. (Annual meeting of the North American Benthological Society, Columbia, SC; 6/5/07).
- Boisvert*, B.A., C.E. Kraft and B.P. Baldigo. The effects of recreational flow releases on survival and behavior of brown trout in the Indian and Hudson Rivers. (Annual meeting of the American Fisheries Society, Lake Placid, NY; 9/16/06).
- Lepak*, J.L., Robinson J.R., Warren, D.W., Josephson, D.C. and Kraft, C.E. Changes in mercury bioaccumulation in apex predators in response to removal of an introduced piscivore. (Annual meeting of the American Fisheries Society, Lake Placid, NY; 9/14/06).
- Millward, A.A.*, C.E. Kraft, and D.R. Warren. Ice damage greater in forests adjacent to rivers and lakes. (American Association of Geographers annual meeting. Chicago, IL; 3/9/06).
- Boisvert, B.A., C.E. Kraft and B.P. Baldigo. The effects of recreational flow releases on trout in the Indian and Hudson Rivers. (Annual meeting of the New York Chapter of the American Fisheries Society, Utica, NY; 2/3/06).
- Kraft, C.E.*, A.A. Millward, and D.R. Warren. Greater ice storm damage along terrestrial-aquatic boundaries in forested landscapes. (Ecological Society of America annual meeting. Montreal, QC; 8/9/05).

- Keeton, W.S.* , C.E. Kraft, D.R. Warren and A.A. Millward. Structure of old-growth riparian forests and effects on stream habitats, Adirondack Mountains, New York. (Ecological Society of America annual meeting. Montreal, QC; 8/10/05).
- Keeton, W.S.* , C.E. Kraft, D.R. Warren and A.A. Millward. Effects of old-growth riparian forests on Adirondack stream systems (5th North American forest ecology workshop, Ottawa, Ontario; 6/14/05)
- Millward, A.A.* , D.R. Warren and C.E. Kraft. Susceptibility of forest edges to icing events (International Association for Landscape Ecology, Syracuse, NY; 3/14/05)
- Robinson, J.M.* , B.C. Weidel, C.E. Kraft, and D.C. Josephson. Growth of Wild and Stocked Brook Trout in an Adirondack Lake. (New York Chapter of the American Fisheries Society annual meeting. Syracuse, NY; 2/04/05)
- Steinhart, G.B.* , D.M. Carlson, R.J. Preall, C.E. Kraft, and D.C. Josephson. Status and recovery of round whitefish in New York. (New York Chapter of the American Fisheries Society annual meeting. Syracuse, NY; 2/04/05)
- Warren, D.R.* , S.D. Sebestyen, D.C. Josephson, J.M. Lepak, C.E. Kraft. Lake spawning brook trout and groundwater. (New York Chapter of the American Fisheries Society annual meeting. Syracuse, NY; 2/04/05)
- Keeton, W.S.* , C.E. Kraft, D.R. Warren and A.A. Millward, Effects of Old-Growth Riparian Forests on Adirondack Stream Systems (Sixth Eastern Old Growth Forest Conference, Geneva Point Center, NH; 9/23/04)
- Kraft, C.E.* Evaluating the Effects of Environment and Stressors on Thiaminase Expression in Alewife ("Early Mortality Syndrome in the Great Lakes" Workshop, Ann Arbor, MI; 9/8/04)
- Warren, D.R.* , C.E. Kraft. Spatial Patterns of Large Woody Debris in Forested Stream Ecosystems. (Annual meeting of the Ecological Society of America, Portland, OR; 8/4/04)
- Kraft, C.E.* Managing Adirondack fisheries in an ecosystem context. (Adirondack Research Workshop, Old Forge, NY; 3/5/04)
- Josephson, D.C.* , B.C. Weidel and C.E. Kraft. Recovery of Honnedaga Lake from Acidification: Chemical Changes and Brook Trout Response. (Adirondack Research Workshop, Old Forge, NY; 3/5/04)
- Millward, A.A.* , C.E. Kraft. Influences of the 1998 ice storm along the aquatic-terrestrial boundary. (Adirondack Research Workshop, Old Forge, NY; 3/5/04)
- Weidel, B.C.* , C.E. Kraft, and D.C. Josephson. Potential roles of tributaries in sustaining brook trout populations in stressed Adirondack lakes. (American Fisheries Society annual meeting, Québec City, QC; 8/14/03)
- Lepak, J.M.* and C.E. Kraft. Stable isotope measurements as indicators of diet shifts in an

- Adirondack lake trout (*Salvelinus namaycush*) population. (American Fisheries Society annual meeting, Québec City, QC; 8/14/03)
- Warren, D.R.* , C.E. Kraft (poster). Brook trout response to wood removal from high gradient streams of the Adirondack mountains, New York. (American Fisheries Society annual meeting, Québec City, QC; 8/13/03)
- Josephson, D.C., C.E. Kraft, C.C. Krueger, S.D. Sebestyn (poster). Natural spawning and population response by brook trout in Adirondack lakes with outlet barriers. (American Fisheries Society annual meeting, Québec City, QC; 8/13/03).
- Lepak, J.M.* and C.E. Kraft. Stable isotope measurements as indicators of diet shifts in a lake trout (*Salvelinus namaycush*) population in an oligotrophic Adirondack lake. (New York Chapter of the American Fisheries Society annual meeting, Canandaigua, NY; 01/10/03)
- Weidel, B.C.* , C.E. Kraft, and D.C. Josephson. Fish community response to removal of naturalized smallmouth bass in an oligotrophic lake. (Canadian Conference for Fisheries Research, Ottawa, Ontario; 01/04/03)
- Lepak, J.M.* and C.E. Kraft. Stable isotope measurements as indicators of diet shifts in a lake trout (*Salvelinus namaycush*) population in an oligotrophic Adirondack lake. (Canadian Conference for Fisheries Research, Ottawa, Ontario; 01/04/03)
- Millward, A.A.* , C.E. Kraft. A landscape approach to measuring ice storm damage patterns in eastern Adirondack forests. (New York GIS Conference, Syracuse, NY; 10/11/02)
- Weidel, B.C.* , C.E. Kraft, D.C. Josephson. Fish community response to removal of naturalized smallmouth bass in an oligotrophic lake. (American Fisheries Society annual meeting, Baltimore, MD; 8/22/02)
- Principe, N.D.* , C.E. Kraft, E.L. Mills (poster). Daily consumption of young-of-the-year chinook salmon (*Oncorhynchus tshawytscha*) in Lake Ontario. (American Fisheries Society annual meeting, Baltimore, MD; 8/20/02)
- Smith, T.A.* , C.E. Kraft (poster). Otolith Microstructure: Determining Production Sources of Wild Trout in the BeaverKill/Willowemoc Watershed, New York. (American Fisheries Society annual meeting, Baltimore, MD; 8/20/02)
- Kraft, C.E.* , D.C. Josephson. Forty years of Adirondack fisheries research and management in an ecosystem context. (American Fisheries Society annual meeting, Baltimore, MD; 8/19/02)
- Millward, A.A.* , C.E. Kraft. A landscape approach to measuring ice storm damage patterns in eastern Adirondack forests. (Canadian Association of Geographers annual meeting, Toronto, ON; 5/30/02)
- Kraft, C.E.* and D.C. Josephson. Brook trout conservation and management in an ecosystem context: 40 years in the Adirondacks. (Conference on the Adirondacks: Annual Meeting of the Adirondack Research Consortium, Saranac Lake, NY; 5/23/02)

- Weidel, B.C.* , D.C. Josephson, C.E. Kraft. Native fish community response to smallmouth bass removal from an Adirondack lake. (Conference on the Adirondacks: Annual Meeting of the Adirondack Research Consortium, Saranac Lake, NY; 5/23/02)
- Weidel, B.C.* and C.E. Kraft. Fish community response to removal of naturalized smallmouth bass in an oligotrophic Adirondack lake. (58th Annual Northeast Fish and Wildlife Conference, Portland, ME; 4/22/02)
- Smith, T.A.* and C.E. Kraft (poster). Determining production sources of wild trout in the BeaverKill/Willowemoc watershed. (58th Annual Northeast Fish and Wildlife Conference, Portland, ME; 4/22/02)
- Warren, D.R.* and C.E. Kraft. Fish response to debris dam removal in ice storm-impacted streams of the Adirondack Mountains (NY, U.S.A.). (58th Annual Northeast Fish and Wildlife Conference, Portland, ME; 4/22/02)
- Principe, N.D.* , C.E. Kraft, and E.L. Mills. Laboratory evacuation rates and daily ration of out-migrated young-of-the-year chinook salmon (*Oncorhynchus tshawytscha*) in Lake Ontario. (Best Student Presentation Award at Annual Meeting of the New York Chapter, American Fisheries Society, Canandaigua, NY 1/25/02)
- Smith, T.A.* and C.E. Kraft. Distributional patterns of fish communities in a Catskill watershed. (Annual Meeting of the New York Chapter, American Fisheries Society, Canandaigua, NY 1/25/02)
- Warren, D.R.* and C.E. Kraft (poster). Fish response to debris dam removal in ice storm-impacted streams of the Adirondack Mountains (N.Y., U.S.A.). (Ecological Society of America annual meeting, Madison, WI; 8/6/01)
- Warren, D.R.* and C.E. Kraft. Fish response to debris dam removal in ice storm-impacted streams of the Adirondack Mountains. (Adirondack Research Consortium annual meeting, Saranac Lake, NY; 5/23/01)
- Kraft, C.E. and R.L. Schneider* (poster). Impacts of the 1998 ice storm on streambanks and streams of the Adirondacks. (Adirondack Research Consortium annual meeting, Saranac Lake, NY; 5/23/01)
- Principe, N.D.* , C.E. Kraft and E.L. Mills. Post-stock feeding and growth dynamics of out-migrated, age-0 naturally-produced Chinook salmon (*Oncorhynchus tshawytscha*) in Lake Ontario. (Great Lakes Research Consortium 2001 Conference, Syracuse, NY; 3/17/01)
- Smith, T.A.* and C.E. Kraft. Spatial and temporal distribution of fish communities in the BeaverKill/Willowemoc watershed, New York. (Northeast Fish and Wildlife Conference, Saratoga Springs, NY; 4/23/01)
- Weidel, B.C.* , D.C. Josephson, and C.E. Kraft. Fish community response to removal of naturalized smallmouth bass in an oligotrophic Adirondack lake. (Annual Meeting of New York Chapter of the American Fisheries Society, Owego, NY; 1/19/01)

- Kraft, C.E.* , R.L. Schneider, and D.R. Warren (poster). Ice storm impacts on woody debris and debris dam formation in northeastern U.S. streams. (International Conference on Wood in World Rivers, Corvallis, OR; 10/23-27/00)
- Kraft, C.E.* and R.L. Schneider. Ice storm impacts on woody debris and debris dam formation in northeastern U.S. streams. (Ice Storm 1998 Forest Research Conference, Ottawa, Ontario; 10/20/00)
- Weidel, B.C.* , C.E. Kraft, and D.C. Josephson (poster). Fish community response to removal of naturalized smallmouth bass in a northern lake. (American Fisheries Society annual meeting, St. Louis, MO; 8/22/00)
- Kraft, C.E.* Adaptive fishery management : Research to improve brook trout angling in Adirondack lakes. (Trout Unlimited National Convention, Syracuse, NY; 8/11/00)
- Johnson, L.E.* and C.E. Kraft. Regional differences in rates and patterns of North American inland lake invasions by zebra mussels. (American Society of Limnology and Oceanography annual meeting, Copenhagen, Denmark; 6/7/00)
- Kraft, C.E.* , F.Funk, and B.Belonger. Stock assessment in the Laurentian Great Lakes: Crossing the gradient between commercial and recreational fisheries. (American Fisheries Society annual meeting, Charlotte, NC; 9/1/99)
- Funk, F.* and C.E. Kraft. Approaches to stock assessment in marine, freshwater and anadromous species: Why the differences? (American Fisheries Society annual meeting, Charlotte, NC; 9/1/99)
- Johnson, L.E.* and C.E. Kraft. Overland dispersal of zebra mussels: regional differences among North American lake districts. (Ecological Society of America annual meeting, Spokane, WA; 8/8/99)
- Bossenbroek, J.M.* , C.E. Kraft and J.C. Nekola (poster). Forecasting the distribution of zebra mussel-infested inland lakes using a production-constrained gravity model. (International Association for Landscape Ecology 5th World Congress, 7/30/99)
- Kraft, C.E.* and R.L. Schneider (poster). Ice storm impacts on streamsides and aquatic habitats of the eastern Adirondack mountains, New York. (American Fisheries Society, New York Chapter annual meeting, Saratoga Springs, NY; 1/28/99)
- Kraft, C.E.* and R.L. Schneider (poster). Ice storm impacts on streamsides and aquatic habitats of the eastern Adirondack mountains, New York. (Society of American Foresters, New York Chapter annual meeting, Cortland, NY; 1/27/99)
- Kraft, C.E.* Learning how to address cultural issues in fisheries management (American Fisheries Society annual meeting, Hartford, CT; 8/17/98)
- Kraft, C.E.* Overland dispersal of zebra mussels to inland North American lakes: Slowing down or just an unusual summer? (Seventh International Zebra Mussel Conference, New Orleans, LA; 1/29/97)

- Damkot, E.* and C.E. Kraft. Preservation of *Dreissena polymorpha* veligers. (Sixth International Zebra Mussel Conference, Dearborn, Mich; 3/6/96)
- Hieb, J.J*., C.E. Kraft, L. Johnson and D. Garton. Early detection of *Dreissena polymorpha*: A comparison of methods for veliger sampling. (Sixth International Zebra Mussel Conference, Dearborn, Mich; 3/6/96)
- Kraft, C.E.* The history of Lake Michigan fisheries. (American Fisheries Society Wisconsin Chapter annual meeting, Stevens Point, Wisconsin. 1/11/96)
- Kraft, C.E.*, L. Johnson, and P. Marangelo. The overland dispersal of zebra mussels to inland lakes: Current trends and status in the Great Lakes region. (Fifth International Zebra Mussel Conference, Toronto, Ontario. 2/23/95)
- Kraft, C.E.* Communicating the impact of zebra mussels and other exotics to the public. (Fifth International Zebra Mussel Conference, Toronto, Ontario. 2/23/95)
- Kraft, C.E.* and D.K. Padilla. Zebra mussel growth along a temperature and nutrient gradient. (Fifth International Zebra Mussel Conference, Toronto, Ontario. 2/22/95)
- Kraft, C.E.* Changes in the fish community of the lower Fox River and Green Bay, Lake Michigan. (American Fisheries Society Wisconsin Chapter annual meeting, Madison, Wisconsin. 1/18/95)
- Kraft, C.E.* and D.K. Padilla. Zebra mussel growth along a temperature and nutrient gradient. (American Society of Zoologists annual meeting, St. Louis, Missouri. 1/06/95)
- Kraft, C.E.*, P.A. Cochran and B. Belonger. Temporal and spatial variation in the fish assemblage of a Great Lakes estuarine system. (American Fisheries Society annual meeting, Halifax, Nova Scotia. 8/23/94)
- Kraft, C.E.*, P.A. Cochran and B. Belonger. Changes in the fish community of the lower Fox River and Green Bay, Lake Michigan. (55th Midwest Fish and Wildlife Conference, St. Louis, Missouri. 12/13/93)
- Kraft, C.E.* Changes in the fish community of lower Green Bay, Lake Michigan. (International Association for Great Lakes Research annual meeting, DePere, Wisconsin. 6/9/93)
- Kraft, C.E.* Wisconsin zebra mussel watch: 1992 distribution and abundance. (Third International Zebra Mussel Research Conference, Toronto, Ontario. 2/25/93)
- Kraft, C.E.* Estimates of nutrient cycling by fish using a bioenergetics approach: A closer look at phosphorus. (American Fisheries Society annual meeting, Rapid City, South Dakota. 9/16/92)
- Kraft, C.E.* From the front line of the invasion: Early-warning detection of zebra mussels. (Second International Zebra Mussel Research Conference, Rochester, New York. 11/21/91)
- Hewett, S.W.* and C.E. Kraft. The relationship between growth and consumption: Model predictions and field data. (American Fisheries Society annual meeting, San Antonio, Texas. 9/12/91)

- Kraft, C.E.* Watching for zebra mussels: How will we know when they get here? (American Fisheries Society Wisconsin Chapter annual meeting, Hudson, WI. 1/24/91)
- Kraft, C.E.* Watching for zebra mussels: Why can't we find them if they're already here? (First International Zebra Mussel Research Conference, Columbus, OH. 12/7/90)
- Hewett, S.W.* and C.E. Kraft. On the relationship between growth and consumption in fish. (Midwest Fish and Wildlife Conference, Minneapolis, MN. 12/5/90)
- Kraft, C.E.* Balancing fish energy budgets: Why the numbers don't always add up? (American Fisheries Society annual meeting, Pittsburg, PA. 8/28/90)
- Kraft, C.E.* Young-of-the-year fish as a phosphorus sink in limnetic systems. (American Society of Limnology and Oceanography annual meeting, Williamsburg, VA. 6/14/90)
- Kraft, C.E.* Model estimates versus field estimates of yellow perch consumption: The need for accurate estimates of growth. (American Fisheries Society annual meeting, Anchorage, AK. 9/5/89)
- Kraft, C.E.* Estimates of phosphorus cycling by alewives in Lake Michigan using a bioenergetics model. (International Association for Great Lakes Research annual meeting, Madison, WI. 6/1/89)
- Kraft, C.E.* and M.J. Vanni. Estimates of phosphorus cycling by fish using a bioenergetics model. (American Society of Limnology and Oceanography annual meeting, Boulder, CO. 6/15/88)
- Kraft, C.E.* and B.L. Johnson. Effects of fyke net mesh size on catch and population dynamics of a yellow perch commercial fishery. (American Fisheries Society annual meeting, Winston-Salem, NC. 9/14/87)
- Kraft, C.E.* and D.J. Stewart. The impact of alewife populations on the mid-70s phosphorus dynamics of Lake Michigan. (American Society of Limnology and Oceanography annual meeting, Madison, WI. 6/15/87)
- Kraft, C.E.* Prospects for Great Lakes salmon fisheries: lessons from predator-prey and forage studies. (International Association for Great Lakes Research annual meeting, Ann Arbor, MI. 5/11/87)
- Kraft, C.E.* The drop net fishery and effects on yellow perch yields. (Green Bay/Fox River Research Symposium, Green Bay, WI. 3/25/86)
- Kraft, C.E.* Searching the historic record for clues to past water quality conditions. (International Association for Great Lakes Research annual meeting, Milwaukee, WI. 6/11/85)
- Kraft, C.E.* The role of fishes in the phosphorus dynamics of Lake Michigan. (International Association for Great Lakes Research annual meeting, Milwaukee, WI. 6/13/85)

CONTRIBUTED EXTENSION PRESENTATIONS [since 2007]

- Kraft, C.E., E.R. Angert, and D.C. Honeyfield. Thiamine deficiency and reproductive failure in Great Lakes fishes: New insights regarding an unsolved mystery. (Adirondack Research Conference IX, Old Forge, NY; 3/05/13)
- Wood recruitment dynamics in streams of the northeastern U.S.: What can we learn from flood events? Invited, Catskill Environmental Research & Monitoring Conference (Highmount, NY; 10/29/12)
- Large woody debris and stream/floodplain functioning, Invited, Riparian Buffer Working Group, NY City Dept. of Environmental Protection (Highmount, NY; 04/03/12)
- Fisheries Management in Adirondack Lakes, Trout Unlimited Leon Chandler Chapter (Dryden, NY; 04/015/10).
- Fisheries Management in Adirondack Lakes, Federation of Fly Fishers (Big Flats, NY; 03/01/10).
- Fisheries Management in Adirondack Lakes, Adirondack Fisheries Research Program (Old Forge, NY; 10/10/09).
- The Link Between Fish and Water Quality Becomes Clearer, Invited, E.L. Rose Conservancy, (Silver Lake, PA.; 09/12/09).
- Fisheries Management in Adirondack Lakes, Adirondack Fisheries Research Program, Cornell (Old Forge, NY; 08/08/09).
- The Link Between Fish and Water Quality Becomes Clearer, E. L. Rose Conservancy, (Silver Lake, PA; 07/25/09).
- Fisheries Management in Adirondack Lakes, Adirondack Fisheries Research Program, Cornell (Old Forge, NY; 05/09/09).
- Fisheries Management in Adirondack Lakes, Adirondack Fisheries Research Program (Old Forge, NY, 10/11/08), Audience: Anglers (Organizer); 35 attendees.
- Fisheries Management in Adirondack Lakes, Trout Unlimited Leon Chandler Chapter (Dryden, NY; 9/9/08); Audience: Anglers (Speaker); 25 attendees.
- Introduction to Programming in R for Fisheries Scientists, American Fisheries Society (Ottawa, Ontario, Canada, 8/17/08), Audience: Fisheries Scientists (Presenter); 40 attendees.
- Lake Ecology and Management, E. L. Rose Conservancy (Silver Lake, PA; 7/26/08), Audience: Silver Lake Association members (Speaker); 30 attendees.
- Fisheries Management in Adirondack Lakes, Adirondack Fisheries Research Program (Old Forge, NY, 5/10/08), Audience: Anglers (Organizer); 35 attendees.
- Introduction to Programming in R for Fisheries Scientists (Ottawa, Ontario; 8/17/08); Audience: Fisheries Professionals (Instructor); 35 attendees.
- Fisheries Management in Adirondack Lakes (Old Forge, NY; 8/9/08); Audience: Adirondack landowners (Principal organizer & speaker); 40 attendees
- Adirondack Aquatic Resource Management Workshop (Old Forge, NY; 3/6/08); Audience: Adirondack landowners (Principal organizer, chair & speaker); 35 attendees
- Genetically Modified Fish and Evolution, Darwin Days Panel Discussion (Ithaca, NY; 2/15/08); Audience: General public (Speaker); 60 attendees.
- Raining Fish, Lion Television Production for Discovery Channel (New York, NY; 1/28/08)
- Adirondack Aquatic Resource Management Workshop (Old Forge, NY; 3/1/07); Audience: Adirondack landowners (Principal organizer, chair & speaker); 40 attendees
- Pond Management for Rural Landowners (Voorheesville, NY; 3/15/07; Audience: Rural landowners; Pesticide Applicator's Recertification Workshop Sponsored by Albany & Rensselaer County CCE (Speaker); 55 attendees
- Cayuga Lake Water Quality Workshop (Ithaca, NY; 4/19/07); Audience: Local stakeholders;

Sponsored by Tompkins County Water Resources Council and Cornell University; 20 attendees
 Fisheries Management in Adirondack Lakes (Old Forge, NY; 4/21/07); Audience: Wilmurt Lake Club members (Principal organizer & speaker); 50 attendees
 Cayuga Lake Water Quality Workshop (Ithaca, NY; 4/30/07); Audience: Local stakeholders;
 Sponsored by Tompkins County Water Resources Council and Cornell University; 30 attendees
 Cayuga Lake Water Quality Workshop (Ithaca, NY; 5/09/07); Audience: Local stakeholders;
 Sponsored by Tompkins County Water Resources Council and Cornell University; 25 attendees
 Building and Stocking Fish Ponds (Arnot Forest; 5/15/07); Audience: Rural landowners; Sponsored by Schuyler County CCE (Speaker); 15 attendees
 Fish Community Impacts on Lake Water Quality (Silver Lake, NY; 7/29/07); Audience: Silver Lake Association members (Speaker); 35 attendees
 Fisheries Management in Adirondack Lakes (Old Forge, NY; 8/11/07); Audience: Adirondack landowners (Principal organizer & speaker); 40 attendees
 Fisheries Management in Adirondack Lakes (Old Forge, NY; 10/13/07); Audience: Adirondack landowners (Principal organizer & speaker); 40 attendees

TEACHING

Teaching: Cornell

Natural Resources 1101 (Introduction to Environmental Science and Sustainability; co-taught with Eugene Madsen) – Fall 2013, Fall 2014, Fall 2015

Natural Resources 4300 (Environmental Policy Processes; co-taught with Barbara Bedford) – Spring 2011, Spring 2012, Spring 2013, Spring 2014, Spring 2015

Natural Resources 4300 (Environmental Policy Processes; co-taught with Bruce Lauber) – Spring 2016

Natural Resources 4560 (Stream Ecology; co-taught with Alex Flecker) – Fall 2005; Fall 2007; Fall 2009; Fall 2011, Fall 2013, Fall 2015

Natural Resources 6000 (Introduction to Graduate Study in Natural Resources) – Fall 2007; Fall 2008; Fall 2009; Fall 2010; Fall 2011

Natural Resources 6600 (Managing data to facilitate your research; co-taught with Sarah Wright) – Spring 2013, Spring 2014, Spring 2015

Guest lectures in: Natural Resources 110 (Introduction to the Field of Natural Resources), Natural Resources 210 (Field Biology), Natural Resources 430 (Environmental Policy Processes), Natural Resources 442 (Techniques in Fisheries Science), Natural Resources 456 (Stream Ecology), Natural Resources 600 (Introduction to Graduate Study in Natural Resources), ABEN 435 (Principles of Aquaculture), Biometry 694 (Dispersal), Ecology and Evolutionary Biology 261 (Ecology and the Environment)

Supervision of twelve undergraduate student independent study projects: Natural Resources 4950 (Individual Study in Fish and Wildlife Biology and Management)

Teaching: University of Wisconsin-Green Bay

Limnology - 3 credit course, senior level (44 students - Fall 1995)

Scientific Applications of Computing (co-taught) - 3 credit course, senior level (60 students - Spring 1996)

Environmental Sciences Practicum: Management of Exotic Species - 3 credit course, senior level (14 students - Fall 1993)

Ecological Dynamics (co-taught) - 4 credit course, senior level (30 students - Spring 1992, Fall 1992)

ADVISING

M.S. Committee Chair, Completed (Cornell University)

- Dana Warren (8/02). Debris dams and their influence on biota in high-gradient ice-storm impacted streams of the eastern Adirondack mountains, New York.
- Tamara Smith (12/02). Stream fish communities in relation to landscape-scale and local habitat in the Beaverkill/Willowemoc watershed, New York.
- Brian Weidel (1/04). Fish community response to removal of naturalized smallmouth bass (*Micropterus dolomieu*) in an oligotrophic Adirondack lake.
- Jesse Lepak (1/04). Stable isotope measurements as indicators of diet shifts in lake trout (*Salvelinus namaycush*) populations in northern lake ecosystems.
- Nicholas Principe (5/05; co-advised with Ed Mills). The feeding dynamics of out-migrated age-0 chinook salmon (*Oncorhynchus tshawytscha*) in Lake Ontario.
- Jason Robinson (5/08) Effects of summer thermal conditions on brook trout (*Salvelinus fontinalis*) in a homeothermic lake
- Bethany Boisvert (8/08) The effect of pulsed discharge events on thermal refugia use by brown trout in thermally marginal streams.
- Hannah Shayler (8/08) Mercury contamination in the northeastern United States: Science-based decision making about fish consumption
- Peter Stevens (8/08) Topographic index modeling of young-of-year brook trout (*Salvelinus fontinalis*) habitat and selecting candidate lakes for wild brook trout re-introduction
- Claire Stouthamer Ingel (12/12) Habitat use, growth, and feeding of larval alewife in a shallow river margin of the Upper Hudson River
- N. Thomas Daniel (5/17) Effects of thermal stress on survivorship of brook trout (*Salvelinus fontinalis*) in Adirondack lakes

Ph.D Committee Chair, Completed (Cornell University)

- Jesse Lepak (5/08) Addressing anthropogenic and environmental perturbations in aquatic systems
- Dana Warren (8/08) Large wood in northeastern U.S. streams: Spatial and temporal dynamics and the influence of wood on stream nutrient cycling
- Laura Martin (5/15) Natural and National Recovery: The Rise of Ecological Restoration in the United States, 1930-1975.
- Alex Alexiades (12/15) Effects of Salmonid Management on Native Species and Ecosystem Function in New York Streams

M.S. Committee Chair, Current (Cornell University)

Ph.D Committee Chair, Current (Cornell University)

- Binbin Wang (graduation anticipated 5/18)
- Ben March-Quay (co-chair; graduation anticipated 5/19)

M.S. Committee Minors, Completed (Cornell University)

- Benjamin Marcy-Quay (M.S. – Natural Resources; 05/15)
- T.J. Ross (M.S. – Natural Resources; 05/12)
- Seth Schweitzer (M.S. – Civil and Environmental Engineering; 5/10)
- Ursula Mahl (M.S. – Ecology & Evolutionary Biology; 5/09)
- Elise Zipkin (M.S. – Natural Resources; 12/07)
- Ted Treska (M.S. – Natural Resources; 5/05)
- James Murphy (M.S. – Natural Resources; 5/06)

M.S. Committee Minors, Current (Cornell University)

- Nathaniel Sibinga (M.S. – Food Science)

Ph.D Committee Minors, Current (Cornell University)

- Cornelia Twining (Ph. D – Ecology & Evolutionary Biology)

Ph.D Committee Minors, Completed (Cornell University)

- Virginia Pasour (Ph. D – Applied Math; 8/04)
- Christopher Jennelle (Ph. D – Natural Resources; 5/07)
- Paul Simonin (Ph.D – Natural Resources; 8/15)
- Sarah Collins (Ph. D – Ecology & Evolutionary Biology; 12/14)
- Seth Schweitzer (Ph. D. - Civil and Environmental Engineering; 5/15)

External Dissertation Examiner at Other Universities

- David Andrew Drake (Ph. D – University of Toronto, Canada, Ph.D 12/10)
- David Browne (Ph. D – McGill University, Canada, 12/07)
- Ivan Olsson (Ph. D – Karlstad University, Sweden, 12/04)
- Margaret Murphy (Ph. D – Environment and Forest Biology, SUNY-College of Environmental Science & Forestry; 5/03)

M.S. Committee Chair, Completed (University of Wisconsin-Green Bay)

- Heidi Bunk. 1996. M.S. University of Wisconsin, Green Bay. Growth variation in *Dreissena polymorpha* in Wisconsin lakes. (Major professor)
- Jonathan Bossenbroek. 1999 M.S. University of Wisconsin, Green Bay. Modeling the overland dispersal of zebra mussels (*Dreissena polymorpha*) to inland North American lakes

Graduate Minors, Completed (University of Wisconsin-Green Bay)

- Susan Kersten. 1997. M.S. University of Wisconsin, Green Bay. The effects of PCB-contaminated environments on the leopard frog (*Rana pipiens*).
- Pamela Schense. 1997. M.S. University of Wisconsin, Green Bay. Diversity and ecological relationships of the biota of Shivering Sands Natural Area.

Current Postdoctoral Associates:

Past Postdoctoral Associates:

- Mariah Meek (2015-16) – currently Assistant Professor at Michigan State University
- Geoff Steinhart (2004-06) – currently Fisheries Biologist, Ohio Department of Natural Resources (Sandusky, OH)
- Andrew Millward (2004-05) – currently Associate Professor at Ryerson University (Toronto)

Other Full-time Research Professionals Supervised:

- Kurt Jirka (Research Support Specialist II)
- Daniel Josephson (Research Associate)

COLLEGE AND UNIVERSITY SERVICE (Cornell)

Graduate Field Memberships

Natural Resources (M.P.S., M.S., Ph.D.)

Committee Assignments and Administrative Appointments

• **University**

2017	Faculty Senate
2013– 2014	Neurodiversity Working Group
2010	Review Panel for ACSF Academic Venture Fund proposals (member)
2009 – present	Atkinson Center for a Sustainable Future (ACSF) faculty fellow
2008 – present	William Keeton House Fellow (West Campus House System)
2007 – 2014	Cornell University Press Science Advisory Board
2005 – present	University Natural Areas Committee
1999 – present	Lake Source Cooling Technical Advisory Committee (chair)

• **College**

2016	Member, Search-and-Screen Committee for CALS Director of Professional Programs and Extended Learning
2015 – present	Environmental and Sustainability Sciences Curriculum Committee
2014 – present	Academic Integrity Hearing Board Committee
2007 – 2012	Director of Graduate Studies, Field of Natural Resources
2005 – 2007	Environmental Cluster Committee (D. Viands, Chair)
2000, 2002, 2004, 2012, 2014	Review Committee for Kieckhefer & Mellon graduate research grant applications

• **Department**

2016	Member, Search-and-Screen Committee for Fisheries and Aquatic Sciences Faculty position
2015 – present	Chair, Teaching Committee
2013 – 2015	Associate Chair
2007 – 2015	Member, Graduate Admissions and Policy Committee (Field of Natural Resources)
2014	Member, Search-and-Screen Committee for New York Cooperative Fish and Wildlife Research Unit Leader
2012	Member, Search-and-Screen Committee for Faculty Director of the Conservation Science Program
2008	Member, Search-and-Screen Committee for New York Cooperative Fish and Wildlife Research Unit Leader
2007 – 2012	Coordinator, Duke Conservation Fellowship Program
2006	Chair, Search-and-Screen Committee for Conservation Genetics Faculty Position
2003-2004	Member, Search-and-Screen Committee for Terrestrial Community / Biocomplexity Ecologist Faculty Position
2003-2004	Member, Strategic Vision Committee
2003-2004	Acting Director of Graduate Studies, Field of Natural Resources
2002-2009	Member, Teaching & Curriculum Committee
2001-2005	Member, Graduate Admissions Committee (Field of Natural Resources)
2000-present	Director, Little Moose Field Station
2000	Search-and-screen committee for Senior Research Associate (Cornell Biological Field Station fisheries management position)
1999	Search-and-screen committee for Extension Associate (SAREP Coordinator)
1999	Acting Director, Little Moose Field Station

PROFESSIONAL SERVICE

Society Activities

Time and Place Committee, American Fisheries Society (1996-99)
 Chair, Continuing Education Committee, American Fisheries Society (1994-96)
 President, Wisconsin Chapter of the American Fisheries Society (1993)
 Newsletter Editor, Wisconsin Chapter of the American Fisheries Society (1988-92)
 Program Chair, Fourth Annual Zebra Mussel Conference (1994)
 Midwest Fish & Wildlife Conference Program Committee (1987)

Community Service

Stream Management Program Advisory Board, New York City Department of Environmental Protection (2002 – 2006)
 Board of Directors, New York Federation of Lake Associations (2000 – 2002)
 Board of Directors, Fox-Wolf River Basin Environmental History Project (1994 – 1998)
 Green Bay Remedial Action Plan Science and Technical Advisory Committee (1991 - 1998)
 Green Bay Remedial Action Plan Biota and Habitat Committee (1991 - 1998)
 Green Bay Remedial Action Plan Research & Monitoring Committee (Chair: 1988 - 1991)

Green Bay Remedial Action Plan Fish & Wildlife Committee (1988-91)
Bay/Lakes Regional Planning Commission Harbor Council (1983-87)
Green Bay Metropolitan Sewerage District Water Quality Advisory Committee (1986)

Research Panel Participation

- National Science Foundation Graduate Research Fellowship Program review panel (Arlington, VA; 2/05/07 to 2/07/07)
- External Review Panel: Mid-Continent Ecology Division, National Health and Environmental Effects Research Laboratory, US Environmental Protection Agency: reviewed research program for federal laboratory with \$17.5 million annual budget & 75 Ph.D staff researchers (Duluth, MN; 2002)
- Illinois/Indiana Sea Grant Program Research Panel Review: evaluated reviews for 34 submitted research proposals, provided ranking advice to program director (Chicago, IL; 2001)
- Illinois/Indiana Sea Grant Program Research Panel Review: evaluated reviews for 29 submitted research proposals, provided ranking advice to program director (Chicago, IL; 1997)

Journals

Associate Editor, *Canadian Journal of Fisheries and Aquatic Sciences* (2007 – 2013)

Associate Editor, *Transactions of the American Fisheries Society* (1992 - 1994)

Reviewer or Referee (typically, 15 reviews per year) for:

Biological Invasions, Canadian Journal of Fisheries and Aquatic Sciences, Canadian Journal of Forestry Research, Comparative Biochemistry and Physiology, Conservation Biology, Ecological Applications, Ecology, Ecology Letters, Ecosphere, Environmental Biology of Fishes, Fisheries, Freshwater Biology, Freshwater Science, Frontiers in Ecology and Environment, Global Change Biology, Hydrobiologia, Journal of Animal Ecology, Journal of Applied Ichthyology, Journal of Aquatic Animal Health, Journal of Great Lakes Research, Journal of the North American Benthological Society, Lake and Reservoir Management, Limnology and Oceanography, North American Journal of Fisheries Management, Science, Transactions of the American Fisheries Society, Trends in Ecology and Evolution, Alaska Sea Grant College Program, Great Lakes Fishery Commission, Illinois/Indiana Sea Grant College Program, Louisiana Sea Grant College Program, Michigan Sea Grant College Program, Minnesota Sea Grant College Program, Natural Environment Research Council (Britain), National Science Foundation, Natural Sciences and Engineering Research Council of Canada, National Sea Grant College Program, New York Sea Grant College Program, Ohio Sea Grant College Program, Wisconsin Sea Grant Program, National Undersea Research Program

Society Memberships

American Association for the Advancement of Science, American Fisheries Society, Association for the Sciences of Limnology and Oceanography (ASLO), Ecological Society of America, International Association for Great Lakes Research

PUBLIC PRESS

Appearances on *Earthwatch* (syndicated national radio program) and *Conversations with Larry Meiller* (statewide Wisconsin Public Radio Program); selected coverage in popular press includes New York Times, Chicago Tribune, Milwaukee Journal-Sentinel and various national and regional newspapers.

AWARDS

- | | |
|------|--|
| 1986 | Outstanding Marine Advisory Service Program Award, Great Lakes Sea Grant Network |
| 2008 | The New York State Agricultural Agents Association Outstanding Publication Award for: "The Pond Guidebook" (Authors: Ochterski, Swistock, Kraft and Schneider; NRAES Publication #178) |
| 2009 | Aldo Leopold Conservation Award, Federation of Fly Fishers |
| 2012 | Adirondack Landowners Association Stewardship Award to the Adirondack Fisheries Research Program |