**Curriculum Vitae**

Donn Karl Branstrator

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Associate Professor, Department of Biology

University of Minnesota Duluth

Phone: (218)-726-8134; Fax: (218)726-8142; email: [dbranstr@d.umn.edu](mailto:dbranstr@d.umn.edu)

**EDUCATION**

1. Ph.D. in Biology, University of Michigan (Ann Arbor, Michigan), Advisor: John Lehman
2. B.A. in Biology, Lawrence University (Appleton, Wisconsin)

*Magna cum laude* research honors, *Cum laude* coursework honors, Advisor: Sumner Richman

**PROFESSIONAL HISTORY**

2006-present University of Minnesota Duluth (Duluth, Minnesota), Associate Professor of Biology

2000-2006 University of Minnesota Duluth (Duluth, Minnesota), Assistant Professor of Biology

1997-2000 DePaul University (Chicago, Illinois), Assistant Professor of Biology

* 1. University of Chicago (Chicago, Illinois), Lecturer and Research Associate, Teaching Advisors: Jerry Coyne and Brian Charlesworth

1. Université de Montréal (Montréal, Québec), Postdoctoral Fellow, Advisors: Asit Mazumder and Joseph Rasmussen

## AWARDS AND FELLOWSHIPS

2010 Barrington High School Distinguished Graduate Award (Barrington, Illinois)

2006 College of Sci. and Eng. Young Teacher Award, University of Minnesota Duluth

1996 NSF-International Programs Postdoctoral Fellowship 9403733. “The role of *Caridina* *nilotica*, a

freshwater prawn, in fishery transformation and ecosystem change in Lake Victoria”, PI, $20,000.

1992 University of Michigan Predoctoral Fellowship (Ann Arbor, Michigan). $18,000.

1989 Student Lecture Presentation Award, International Association for Great Lakes Research Annual

Meeting (Madison, Wisconsin)

**PROFESSIONAL SERVICE**

2014-2015 Director of Graduate Studies (Integrated Biosciences, University of Minnesota)

2013-2014 Associate Director of Graduate Studies (Integrated Biosciences, University of Minnesota)

2010-2011 Associate Director of Graduate Studies (Integrated Biosciences, University of Minnesota)

2012-2014 Biology Department Awards Committee chair (University of Minnesota Duluth)

2012-2014 University Educational Policy Committee member (University of Minnesota Duluth)

2007 Outside opponent on PhD dissertation defense, York University, Canada.

2007 Outside opponent on PhD dissertation defense, University of Toronto, Canada.

2006-2009 University Subcommittee on Liberal Education member (University of Minnesota Duluth).

2006 Associate Director of Graduate Studies (Water Resources Science, University of Minnesota)

2002 Consultant for Department of Geology, University of Minnesota Duluth, 48 p. report

1998 Consultant for State of Illinois legal case No. CH KA 97 0279 IYC, 3 weeks.

**RESEARCH GRANTS**

2017-2019 Legislative-Citizen Commission on Minnesota Resources,“Determining highest-risk vectors of spiny water flea spread”, co- PI, $122,640.

2017-2019 Legislative-Citizen Commission on Minnesota Resources,“Sustaining walleye populations: assessing impacts of AIS”, Project team member, $198,700.

2017-2019 St. Louis County Aquatic Invasive Species Prevention Program, “What gear on your boat is

most likely to spread spiny water flea”, PI, $95,387.

2016-2019 Legislative-Citizen Commission on Minnesota Resources“Characterizing spiny

water flea impacts using sediment records.” PI, $207,766.

2015-2016 Great Lakes Protection Fund. “Uncovering how clean is clean: Great Lakes invasive

species”, co-PI, $542,000.

2013-2016 Legislative-Citizen Commission on Minnesota Resources. “Evaluating Lake Superior’s

health in a changing world”, co-PI, $600,000.

2012-2014 Minnesota Sea Grant College Program. “What feeds Lake Superior food webs?: a multi-

isotope investigation”, co-PI, $213,935.

2012-2014 Great Lakes Protection Fund. “Characterizing the risk-release relationship for aquatic

invasive species in the Great Lakes”, co-PI, $996,217.

2011-2013 Great Lakes Maritime Research Institute. “Diversity and viability of zooplankton in

ballast sediments of regional fleet Great Lakes ships”, PI, $98,000.

2010-2012 Minnesota Sea Grant College Program. “Feeding the deep: interdependencies

between the vertically migrating deep water fauna and the deep chlorophyll layer in Lake Superior”, co-PI, $215,124.

2007-2011 Great Lakes Maritime Research Institute. “Building sustainable solutions to the

issue of ballast water treatment: testing relationships between propagule pressure

and colonization success of invasive species”, PI, $210,000.

2010-2011 UMD VCAA Energy/Environmental Research Funding. “Testing the hypothesis

that reservoirs amplify human impacts on the environment: exotic species range expansions, carbon sequestration, and methane emissions”, co-PI, $10,000.

2008-2010 UMD Special Research Funding - Vice Chancellor for Academic Administration.

“Using sedimentary records to describe long-term changes to an aquatic food web”,

PI $13,000.

2007-2008 National Park Service of the U.S. Department of the Interior. “Taxonomic identification of zooplankton within lakes of Voyageurs National Park”, PI, $10,060.

2007-2008 National Geographic Society's Committee for Research and Exploration. “Testing the

hypothesis that humans accelerate the rate of range expansion of an aquatic, non-native species”, PI, $8,905.

2005-2007 Minnesota Sea Grant College Program. “Mesoscale eddies and the distribution of

biological productivity in Lake Superior”, PI, $150,730.

2004-2006 University of Minnesota Grant-in-Aid. “Species invasion in Minnesota lakes: predicting

establishment of *Bythotrephes*”, PI, $33,295.

2003-2005 Minnesota Sea Grant College Program. “Effects of physical and chemical stressors on

survival of the resting egg stage of *Bythotrephes longimanus*”, PI, $103,704.

2003-2005 Minnesota Sea Grant College Program. “Assessing determinants of lake trout reproductive

success: Comparison of Lake Superior reef complexes with contrasting survival rates of

young lake trout”, co-PI, $118,837.

2001-2003 Minnesota Sea Grant College Program. “A multi-disciplinary study: the spatiotemporal

distribution and productivity of zooplankton in the western arm of Lake Superior”, co-PI,

$180,746.

2001-2003 University of Minnesota Grant-in-Aid. “Chemical induction of body defenses in the water flea, *Daphnia*”, PI, $25,900.

1999-2000 DePaul University Research Council Summer Grant. “Using stable isotopes to assess trophic

position of the invertebrate predators *Leptodora* and *Chaoborus* in Lake Zurich, Illinois”, PI, $7,000.

**PUBLICATIONS**

Aliff, MN, ED Reavie, MC TenEyck, DK Branstrator, T Schwerdt, AA Cangelosi, and M Cai. 2018.

Evaluation of a method for ballast water risk-release assessment using a protist surrogate. *Hydrobiologia* In press.

Pawlowski, MB, DK Branstrator, TR Hrabik, and RW Sterner. 2017. Changes in the cladoceran community of Lake Superior and the role of *Bythotrephes longimanus*. *Journal of Great Lakes Research* 43: 1011-1110.

Branstrator, DK, AE Beranek, ME Brown, LE Hembre, and DR Engstrom. 2017. Colonization dynamics of the invasive predatory cladoceran, *Bythotrephes longimanus*, inferred from sediment records. *Limnology and Oceanography* 62: 1096-1110.

Sorensen, ML, and DK Branstrator. 2017. The North American invasive zooplanktivore *Bythotrephes longimanus* is less hypoxia-tolerant than the native *Leptodora kindtii*. *Canadian Journal of Fisheries and Aquatic Sciences* 74: 824-832.

Krueger, BR, JP Werne, DK Branstrator, TR Hrabik, Y Chikaraishi, N Ohkouchi, and EC Minor. 2016. Organic matter transfer in Lake Superior’s food web: Insights from bulk and molecular stable isotope and radiocarbon analyses. *Limnology and Oceanography* 61: 149-164.

Branstrator, DK, KL Westphal, and BK King. 2015. Analysis of invertebrate resting eggs and other biota in ballast tank sediment of domestic Great Lakes cargo ships. *Journal of Great Lakes Research* 41: 200-207.

Oliver, SK, DK Branstrator, TR Hrabik, SJ Guildford, and RE Hecky. 2015. Nutrient excretion

by crustacean zooplankton in the deep chlorophyll layer of Lake Superior. *Canadian Journal of Fisheries and Aquatic Sciences* 72: 390-399.

Branstrator, DK, LJ Shannon, ME Brown, and MT Kitson. 2013. Effects of chemical and

physical conditions on hatching success of *Bythotrephes longimanus* resting eggs. *Limnology and Oceanography* 58: 2171-2184.

Holbrook, BV, TR Hrabik, DK Branstrator, and AF Mensinger. 2013. Foraging mechanisms of

age-0 lake trout (*Salvelinus namaycush*). *Journal of Great Lakes Research* 39: 128-137.

Brown ME, DK Branstrator, and LJ Shannon. 2012. Population regulation of the spiny water

flea (*Bythotrephes* *longimanus*) in a reservoir: Implications for invasion. *Limnology and*

*Oceanography* 57: 251-271.

Brown ME, and DK Branstrator. 2011. Patterns in the abundance, phenology, and hatching of

the resting egg stage of the invasive zooplankter *Bythotrephes longimanus*: Implications for establishment. *Biological Invasions* 13: 2547-2559.

Branstrator, DK. 2010. Origins of Types of Lake Basins. *In* G Likens [Ed.], Lake Ecosystem

Ecology: A derivative of Encyclopedia of Inland Waters. Elsevier. Pp. 191-202.

Branstrator, DK. 2009. Origins of Types of Lake Basins. *In* G Likens [Ed.], Encyclopedia of

Inland Waters. Elsevier. Pp. 613-624.

Tanner, CJ, and DK Branstrator. 2006. Generational and dual-species exposures to invertebrate

predators influence relative head size in *Daphnia mendotae*. *Journal of Plankton Research* 28: 793-802.

Branstrator, DK, ME Brown, LJ Shannon, M Thabes, and K Heimgartner. 2006. Range expansion

of *Bythotrephes* *longimanus* in North America: evaluating habitat characteristics in the spread

of an exotic zooplankter. *Biological Invasions* 8: 1367-1379.

Holbrook, BV, TR Hrabik, DK Branstrator, D Yule, and J Stockwell. 2006. Hydroacoustic

estimation of zooplankton biomass at two shoals in the Apostle Islands region of Lake Superior. *Journal of Great Lakes Research* 32: 680-696.

Brown, ME, and DK Branstrator. 2005. Seasonal dynamics in *Bythotrephes* diapausing egg emergence and production, and the role of dormancy in range expansion. *Proceedings of the International Association of Theoretical and Applied Limnology* 29: 174-178.

Branstrator, DK. 2005. Contrasting life histories of the predatory cladocerans *Leptodora kindtii*

and *Bythotrephes longimanus*. *Journal of Plankton Research* 27: 569-585.

Brown, ME, and DK Branstrator. 2004. A 2001 survey of crustacean zooplankton in the western arm of Lake Superior. *Journal of Great Lakes Research* 30: 1-8.

Branstrator, DK, L Mwebaza-Ndawula, and JP Montoya. 2003. Resource-consumer relationships in Lake Victoria, East Africa. *Hydrobiologia* 493: 27-34.

Bungartz, B, and DK Branstrator. 2003. Morphological changes in *Daphnia mendotae* in the chemical presence of *Bythotrephes longimanus*. *Archiv für Hydrobiologie* 158: 97-108.

Prete, FR, LE Hurd, D Branstrator, and A Johnson. 2002. Responses to computer-generated visual stimuli by the male praying mantis, Sphodromantis lineola (Burmeister). Animal Behavior 63: 503-510.

Branstrator, DK, G Cabana, A Mazumder, and JB Rasmussen. 2000. Measuring life-history omnivory in the opossum shrimp, *Mysis relicta*, with stable nitrogen isotopes. *Limnology and Oceanography* 45: 463-467.

Branstrator, DK, and CM Holl. 2000. Planktivory by bluegill (*Lepomis macrochirus*) on *Leptodora kindti* in a small North American lake. *Hydrobiologia* 437: 101-106.

Branstrator, DK, and L Mwebaza-Ndawula. 1998. Low-oxygen tolerance of the atyid prawn, *Caridina nilotica*, in Lake Victoria (East Africa): implications for refuge from Nile perch predation, pp. 125-133. *In* JT Lehman [Ed.], Environmental Change and Response in East African Lakes. Kluwer Academic.

Branstrator, DK. 1998. Predicting diet composition from body length in the zooplankton predator *Leptodora* *kindti*. *Limnology and Oceanography* 43: 530-535.

Branstrator, DK, JT Lehman, and LM Ndawula. 1996. Zooplankton dynamics in Lake Victoria, pp. 337-355. *In* TC Johnson and EO Odada [Eds.], The Limnology, Climatology and Paleoclimatology of the East African Lakes. Gordon and Breach.

Branstrator, DK, and JT Lehman. 1996. Evidence for predation by young-of-the-year alewife and bloater chub on *Bythotrephes cederstroemi* in Lake Michigan. *Journal of Great Lakes Research* 22: 917-924.

Lehman, JT, and DK Branstrator. 1996. Predicting assimilation and development rates of invertebrate predators. *Journal of Great Lakes Research* 22: 930-934.

Lehman, JT, and DK Branstrator. 1995. A model for growth, development, and diet selection by the invertebrate predator *Bythotrephes cederstroemi*. *Journal of Great Lakes Research* 21: 610-619.

Branstrator, DK. 1995. Ecological interactions between *Bythotrephes cederstroemi* and *Leptodora kindtii* and the implications for species replacement in Lake Michigan. *Journal of Great Lakes Research* 21: 670-679.

Branstrator, DK. 1994. Profitability of cladoceran prey for *Leptodora kindtii*. *Proceedings of the International Association of Theoretical and Applied Limnology* 25: 2413-2417.

Lehman, JT, and DK Branstrator. 1994. Nutrient dynamics and turnover rates of phosphate and sulfate in Lake Victoria, East Africa. *Limnology and Oceanography* 39: 227-233.

Lehman, JT, and DK Branstrator. 1993. Effects of nutrients and grazing on the phytoplankton of Lake Victoria. *Proceedings of the International Association of Theoretical and Applied Limnology* 25: 850-855.

Branstrator, DK, and JT Lehman. 1991. Invertebrate predation in Lake Michigan: regulation of *Bosmina longirostris* by *Leptodora kindtii*. *Limnology and Oceanography* 36: 483-495.

Lehman, JT, JA Bowers, RW Gensemer, GJ Warren, and DK Branstrator. 1990. *Mysis relicta* in Lake Michigan: abundances and relationships with their potential prey, *Daphnia*. *Canadian Journal of Fisheries and Aquatic Sciences* 47: 977-983.

Richman, S, DK Branstrator, and M Huber-Villegas. 1990. Impact of zooplankton grazing on phytoplankton along a trophic gradient, pp. 592-614. *In* MM Tilzer and C Serruya [Eds.], Large Lakes: Ecological Structure and Function. Springer-Verlag.

## PRIMARY ADVISOR OF GRADUATE STUDENT RESEARCH (\* Indicates Co-advisor)

1) Colby Tanner (MS, 2001). Research Fellow at Trinity College, Dublin, Ireland.

2) Melinda Huff (MS, 2006). Instructor at Northeastern Oklahoma A&M College, Miami, OK

3) Meghan Brown (MS, 2002). Assoc. Prof. at Hob. & William Smith Colleges, Geneva, NY.

4) Meghan Brown (PhD, 2006). Assoc. Prof. at Hob. & William Smith Colleges, Geneva, NY.

5) Marte Kitson (MS, 2008). Education Specialist at Minnesota Sea Grant, Duluth, MN.

6) Andrea Grygo\* (MS, 2009). GIS Specialist at the St. Louis County Offices, Duluth, MN.

7) Victoria Olson (MS, 2009). Biol. Instructor at the College of St. Scholastica, Duluth, MN.

8) Beth Holbrook\* (PhD, 2011). Minn. Dept. of Natural Resources, Brainerd, MN.

9) Ashley Beranek (MS, 2012). Wisc. Dept. of Natural Resources, Madison, WI.

10) Samantha Oliver\* (MS, 2012). PhD program at the Univ. of Wisconsin Madison.

11) Michael Sorensen (MS 2015). Program Assistant, Comfort Lake / Forest Lake Watershed District

12) Matthew TenEyck (PhD 2015). Director, Lake Superior Research Institute, UW-Superior

13) Matthew Pawlowski\* (MS 2016). Researcher USEPA, Duluth

14) Ian Harding\* (MS 2017)

15) Nicki DeWeese (MS In progress)

## PRIMARY ADVISOR OF UNDERGRADUATE STUDENT RESEARCH

1) Carolyn Holl (1998-1999). UMD UROP. Planktivory by bluegill (*Lepomis macrochirus*) on *Leptodora*

*kindtii* in a small North American lake.

2) Ben Bungartz (2001-2002). UMD UROP. Morphological changes in *Daphnia mendotae* in the chemical

presence of *Bythotrephes longimanus*.

3) Katherine Heimgartner (2003-2004). UMD UROP. Size-specific patterns of diurnal vertical migration of the spiny waterflea (*Bythotrephes longimanus*).

4) William Reynolds (2004-2005). UMD UROP. A survey for the presence of an invasive species,

*Bythotrephes longimanus* (Crustacea; Cercopagidae), in the inland lakes of Isle Royale National Park.

5) Jake Erie (2006-2007). UMD UROP. Surveying *Bythotrephes longimanus* population dynamics in

the Cloquet River from its source, Island Lake Reservoir.

6) Dustin Wing (2006-2007). UMD UROP. Investigating the potential of naturally occurring wind

generated foam as a dispersal vector for the diapausing eggs of *Bythotrephes longimanus*.

7) Brandon Keinath (2008-2009). UMD UROP. Water chemistry of Tarpon Bay, part of the J.N.

“Ding” Darling National Wildlife Refuge, Florida.

8) Molly Ostwald (2008-2009). UMD UROP. Relationships between avian diversity and human

disturbance in Tarpon Bay, part of the J.N. “Ding” Darling National Wildlife Refuge, Florida.

9) Andrew Wendlandt (2008-2009). UMD UROP. Comparing diversity and density of waterfowl

inside and outside a low human impacted wilderness.

10) Amelia Sancilio. (2010) Lawrence University LUR1 Program. Spatial distribution of *Bythotrephes longimanus* across Island Lake Reservoir.

11) Rachel Toczydlowski (2011-2012). BIOL 3994. Role of physical lake features and water

access in predicting patterns of range expansion of *Bythotrephes longimanus*.

12) Kelly Westphal (2011-2012). UMD UROP. Size and gender distribution of *Limnocalanus*

*macrurus* in Lake Superior.

13) Breana King (2013-2014). UMD UROP. The use of vital stains viability indicators of zooplankton dormant eggs.

14) Alan Toczydlowski (2014-2015). UMD UROP. Using scanning electron microscopy to evaluate

the surface structure of resting eggs of cladoceran zooplankton.

15) Erica Strom (2014-2015). UMD UROP. Evaluating hypoxia tolerance thresholds of two common

cladoceran zooplankton, *Daphnia* and *Ceriodaphnia*.

16) Sean Loftus (2017). UMD Internship Biol3996. Quantifying spiny water flea densities in the east

basin of Island Lake.

***PRIMARY INSTRUCTOR OF UNIVERSITY LEVEL COURSES (3-4 courses per year)***

*University of Chicago(1994-1997)*

Evolutionary Biology Laboratory, Evolution and Ecology for Non-majors

*Ely (Minnesota), Contracted through the Associated Colleges of the Midwest (1997 & 1999)*

Boreal Ecology, Community Ecology

# DePaul University(1997-2000)

Aquatic Biology, Biology for Non-majors, Evolutionary Biology, Introduction to Biology for Majors,

Human Inheritance, Environmental History of the Great Lakes, Marine Biology, Graduate Seminar in Ecology

# University of Minnesota Duluth (2000 – present)

General Ecology, Lake Ecology, Plankton Biology, Field Limnology, Aquatic Food Webs, Coral Reef Field Studies, Advanced Lake Ecology, Ecology Laboratory, Biology Seminar, Integrated Biological Systems, Topics in Invasion Biology.

***PROFESSIONAL PRESENTATIONS***

1. 1989“Invertebrate predation in Lake Michigan: regulation of *Bosmina longirostris* by *Leptodora*

*kindtii.*” University of Wisconsin Milwaukee, Milwaukee, Wisconsin.

2. 1989 “Predation by *Leptodora* on *Bosmina* in Lake Michigan.” International Association for Great Lakes

Research Meeting. Madison, Wisconsin.

3. 1990 “Size-selection of prey by *Leptodora kindtii*.” American Society of Limnology and Oceanography

Meeting. Williamsburg, Virginia.

4. 1991 “Effects of *Bythotrephes cederstroemi* on fishes in Lake Michigan.” American Society of

Limnology and Oceanography Meeting. Halifax, Nova Scotia.

5. 1992 “Ingestion efficiency of the invertebrate predator, *Leptodora kindtii*.” International Association for

Theoretical and Applied Limnology Meeting. Barcelona, Spain.

6. 1993 “Composition and size-structure of zooplankton in Lake Victoria.” American Society of Limnology

and Oceanography Meeting. Edmonton, Alberta.

7. 1996 “Lakes, wildlife, and culture of Uganda.” Prairie Woods Audubon Society. Chicago, Illinois.

8. 1996 “Lakes, wildlife, and culture of Uganda.” DuPage Audubon Society. Chicago, Illinois.

9. 1996 “Ecology of *Caridina nilotica* in Lake Victoria.” American Society of Limnology and Oceanography

Meeting. Santa Fe, New Mexico.

10. 1998 “Measuring patterns of omnivory in the opossum shrimp *Mysis relicta* using nitrogen stable

isotopes.” Loyola University, Chicago, Illinois.

11. 2000 “Stable isotope and experimental studies of *Caridina* trophic position in Lake Victoria. American

Society of Limnology and Oceanography Meeting, Copenhagen, Denmark.

12. 2001 “Teaching graduate limnology in East Africa.” University of Minnesota Duluth Alworth Institute for

International Studies Brown Bag Series.

13. 2002 “Spatial positioning of *Leptodora kindti* in relation to food and predation risk,” American

Society of Limnology and Oceanography Meeting, Victoria B.C., Canada.

14. 2002 “Chemical induction of cyclomorphosis in *Daphnia* by cladoceran predators”

Water Resources Science Graduate Program Conference, Deerwood, Minnesota.

# 15. 2002 “Large Lakes of the World: From Superior to Victoria,” Great Lakes Aquarium –

Regional K-12 Science Teachers Conference, Duluth, Minnesota.

# 16. 2002 “The Ecology of Lake Victoria, East Africa,” Great Lakes Aquarium - Grand Opening of the Lake

# Victoria Exhibit, Duluth, Minnesota.

17. 2003“Effects of physical and chemical stressors on survival of the diapausing egg of *Bythotrephes*.”

First Annual Aquatic Invaders Workshop. Dorset, Ontario.

# 18. 2004 “Status of the spiny waterflea invasion of North America.” University of Minnesota Duluth. Duluth,

# Minnesota.

19. 2004 “Contrasting life-history strategies of the predatory cladocerans *Leptodora* and *Bythotrephes*.”

American Society of Limnology and Oceanography Meeting, Savanna, Georgia.

20. 2005 “Range expansion of the exotic *Bythotrephes longimanus* (Crustacea: Cercopagidae) in North

America: Can we stop it?” Hamline University.

21. 2005 “Range expansion of the exotic *Bythotrephes longimanus* (Crustacea: Cercopagidae) in North

America: Can we stop it?” Lawrence University, Appleton, Wisconsin.

22. 2005 “Effects of physical and chemical stressors on survival of the diapausing egg of *Bythotrephes*,”

Second Annual Aquatic Invaders Workshop, Kingston, Ontario.

23. 2005“Thermal, desiccation, and salinity tolerance of the diapausing egg of *Bythotrephes longimanus*:

implications for dispersal and decontamination,” North American Lake Management Society Meeting, Madison, Wisconsin.

24. 2005“Effects of physical and chemical stressors on survival of the diapausing egg of

*Bythotrephes longimanus*,” American Society of Limnology and Oceanography Meeting,

Salt Lake City, Utah.

25. 2006 “Exploring the ecology of one of Minnesota’s latest invasive species, the spiny waterflea

(*Bythotrephes*),” Voices of the Lake Speaker Series, Great Lakes Aquarium, Duluth, Minnesota.

26. 2006 “Range expansion of the exotic *Bythotrephes longimanus* (Crustacea:Cercopagidae) in North

America: Can we stop it?” United States Environmental Protection Agency, Duluth, Minnesota.

27. 2007 “Impact, distribution, and mitigation of range expansion of *Bythotrephes*

*longimanus*.” Water Resources Science Graduate Program, St. Paul, Minnesota.

28.2007 “Environmental tolerance limits of the diapausing egg of *Bythotrephes longimanus*:

implications for dispersal and decontamination.” Making a Great Lake Superior

Conference, Duluth, Minnesota.

29.2008 “A progress report on basic and applied research regarding *Bythotrephes longimanus*.

International Lake of the Woods Water Quality Forum. International Falls, Minnesota.

30. 2008 “Slowing the rate of range expansion of the invasive zooplankton *Bythotrephes*

*longimanus* (Crustacea: Cercopagidae): Lessons from basic research. American

Society of Limnology and Oceanography Meeting. St. John’s, Newfoundland, Canada.

31.2009 “The effects of the invasive zooplankton *Bythotrephes longimanus* on the diet and

mercury concentration of fishes in northern Minnesota Reservoirs.” Dorset *Bythotrephes*

Workshop, Ontario, Canada.

32.2009 “Building sustainable solutions to the issue of ballast water treatment: testing

relationships between propagule pressure and colonization success of invasive species.”

Great Lakes Maritime Research Affiliates Meeting. Duluth, Minnesota.

33. 2010 “Building sustainable solutions to the issue of ballast water treatment: testing

relationships between propagule pressure and colonization success of invasive species.”

Great Lakes Maritime Research Affiliates Meeting. Duluth, Minnesota.

34. 2010 “Preventing between-lake hitchhiking of the spiny water flea (*Bythotrephes longimanus*).” Minnesota-Wisconsin Invasive Species Conference. St. Paul, Minnesota.

35. 2010 “Pattern and prevention in range expansion of the invasive *Bythotrephes longimanus*

in North America.” Invited seminar at Coe College Field Station. Ely, Minnesota.

36. 2010 “Testing the hypothesis that humans accelerate the rate of range expansion of an

aquatic non-indigenous species. Superior National Forest Research Meeting. Duluth, Minnesota.

37. 2011 “Pattern and prevention in range expansion of the invasive *Bythotrephes*

*longimanus* in North America.” Coe College Field Station. Ely, Minnesota.

38. 2011 “Pattern and prevention in range expansion of the invasive *Bythotrephes longimanus* in

North America.” Grand Ely Lodge for Ely Area Citizens Group, Ely, Minnesota.

39. 2011 “Chasing spiny water fleas: Understanding dispersal and establishment”. Michigan

Technological University, Houghton, Michigan.

40. 2012 “Ecosystem change in Lake Victoria, East Africa”. University of Wroclaw, Wroclaw,

Poland.

41. 2012 “Sediment testing in U.S. lakers ballast tanks.” Great Lakes Maritime Research Institute

Affiliates Meeting. Duluth, Minnesota.

42. 2012 “An assessment of the long-term phenology and impact of *Bythotrephes*

*longimanus* in Island Lake Reservoir, Minnesota, using sediment records.” Lake of the

Woods 9th Annual International Water Quality Forum, International Falls, Minnesota.

43. 2012“Invasion of spiny water flea: Lessons from a reservoir.” Twin Ports Freshwater

Folk. Duluth, Minnesota.

44. 2013 “Density, viability, and taxonomy of zooplankton resting eggs in ballast sediment of Great

Lakes domestic ships.” Society for Naval Architecture and Marine Engineering Meeting, Chicago, Illinois.

45. 2013 “Seeing invasion biology through the eggs and tail of a non-native crustacean: *Bythotrephes*.”

Coe College, Cedar Rapids, Iowa.

46. 2014 “Population establishment by *Bythotrephes longimanus* in a Minnesota lake from sediment

records.” Upper Midwest Invasive Species Conference, Duluth, Minnesota.

47. 2014 “Impacts of *Bythotrephes* establishment on Minnesota fishes at the ecosystem scale: a

proposal for collaborative research.” Annual meeting of the Minnesota Department of Natural

Resources Fisheries Research Scientists. Duluth, Minnesota.

Not updated since 2014

***PROFESSIONAL REVIEWER***

1994 Ontario Ministry of the Environment Grants Panel on "Species Invasion to North American

Lakes by *Bythotrephes* *cederstroemi*." 4 proposals.

1998 Peer-reviewer for Blackwell Scientific, Inc. (2 book chapters in Community Ecology by P. Morin).

2002 Peer-reviewer for Prentice Hall. (5 book chapters in Introduction to Limnology by S.I. Dodson).

2002 Great Lakes Fishery Commission. 1 proposal

2004 United States National Science Foundation, LTREB. 2 proposals

2004 United Stated Civilian Research & Development Foundation. 1 proposal

1993-2014 Manuscripts in the following journals: *Ecology, Limnology and Oceanography, Canadian Journal*

*of Fisheries and Aquatic Sciences, Ecology Letters, Oecologia, Journal of Plankton Research, Archiv für Hydrobiologie, Journal of Great Lakes Research, Transactions of the American Fisheries Society, Water Environment Research, International Review of Hydrobiology, Canadian Journal of Zoology, Ecological Applications, Marine Ecological Progress Series, Biological Invasions*. Average review rate is 3-4 manuscripts per year.