

## **Steven A. Pothoven**

### **Affiliation and Contact Information**

Great Lakes Environmental Research Laboratory  
National Oceanic and Atmospheric Administration  
Lake Michigan Field Station  
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Muskegon, MI 49441  
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### **Research Interests**

My research is focused on management and ecology of fish and macroinvertebrates in the Great Lakes. Specific research topics have included the effects of invasive species on Great Lakes planktivores and benthivores; feeding ecology, bioenergetics, and condition of planktivorous and benthivorous fish in the Great Lakes; and life history and population dynamics of *Mysis relicta* and *Bythotrephes longimanus*.

### **Education**

Augustana College (IL). BA in Biology and Biochemistry. *summa cum laude*. Phi Beta Kappa. (1989-1993)  
University of Minnesota, St. Paul, MN. MS in Fisheries (major), Statistics (minor). (1993-1996) Thesis: An evaluation of the indirect effects of fluridone on the fish communities in two Minnesota Lakes.

### **Research Positions**

Research Fishery Biologist (2005-Present). Great Lakes Environmental Research Laboratory-National Oceanic and Atmospheric Administration, Muskegon, MI.

Research Associate II (2000-2005) Cooperative Institute of Limnology and Ecosystem Research-University of Michigan, Muskegon, MI.

Research Associate I (1997-2000) Cooperative Institute of Limnology and Ecosystem Research-University of Michigan, Ann Arbor and Muskegon, MI.

Research Support Specialist (1996-1997) Great Lakes Center, Research Foundation of SUNY at Buffalo State College, Buffalo, NY.

Graduate Research Assistant (1994-1996) University of Minnesota Department of Fisheries and Wildlife, St. Paul, MN.

Technician (summer 1993) Minnesota Department of Natural Resources, Section of Fisheries, St. Paul, MN.

Research Assistant (summer 1992) Savannah River Ecology Laboratory, Univ. of Georgia, Aiken SC.

## **Publications**

- Pothoven, S.A., B. Vondracek, and D. L. Pereira. 1999. Effects of Vegetation Removal on bluegill and largemouth bass in two Minnesota Lakes. *North American Journal of Fisheries Management* 19:748-757
- Pothoven, S.A., T. F. Nalepa, and S. B. Brandt. 2000. Yellow perch diet in southeastern Lake Michigan relative to ongoing environmental changes. *Journal of Great Lakes Research* 26(2):235-239.
- Pothoven, S.A., Fahnenstiel, G. L., Vanderploeg, H. A., and Luttenton, M. 2000. Population Dynamics of *Mysis relicta* in Southeastern Lake Michigan, 1995-1998. *J. Great Lakes Res.* 26:357-365.
- Nalepa, T. F., Schloesser, D. W., Pothoven, S. A., Hondorp, D. W., Fanslow, D. L., Tuchman, M. L., and Fleischer, G. W. 2001. First finding of the amphipod *Echinogammarus ischnus* and the mussel *Dreissena bugensis* in Lake Michigan. *Journal of Great Lakes Research* 27(3):384-391.
- Pothoven, S.A., Fahnenstiel, G. L., Vanderploeg, H. A. 2001. Population dynamics of *Bythotrephes cederstroemii* in south-east Lake Michigan 1995-1998. *J. Freshwater Biol.* 46: 1491-1503
- Pothoven, S.A., Nalepa, T.F., Schneeberger, P.J., and Brandt, S.B. 2001. Changes in diet and body condition of lake whitefish in southern Lake Michigan associated with changes in benthos. *North American Journal of Fisheries Management* 21:876-883.
- Pothoven, S.A., Fahnenstiel, G. L., Vanderploeg, H. A. 2003. Population characteristics of *Bythotrephes* in Lake Michigan. *Journal of Great Lakes Research* 29:145-156.
- Price, H., S. A. Pothoven, M. J. McCormick, P. C. Jensen, and G. L. Fahnenstiel. 2003. Temperature influence on commercial lake whitefish harvest in eastern Lake Michigan. *Journal of Great Lakes Research* 29:296-300.
- Pothoven, S.A., Fahnenstiel, G. L., Vanderploeg, H. A. 2004. Spatial Distribution, Biomass, and Population Dynamics of *Mysis relicta* in Lake Michigan. *Hydrobiologia* 522: 291-299.
- Pothoven, S.A., and Vanderploeg, H. A. 2004. Diet and prey selection of alewives in Lake Michigan: seasonal, depth, and interannual patterns. *Transactions of the American Fisheries Society* 133:1068-1077.
- Pothoven, S. A. 2005. Changes in lake whitefish diet in Lake Michigan, 1998-2001. pp. 127 – 140. *In* L. C. Mohr & T. F. Nalepa (eds.) *Proceedings of a workshop on the dynamics of lake whitefish (Coregonus clupeaformis) and the amphipod Diporeia spp. in*

the Great Lakes. Great Lakes Fisheries Commission Technical Report 66, Ann Arbor, Michigan.

Madenjian, C. P., S. A. Pothoven, P. J. Schneeberger, D. V. O'Connor, S. B. Brandt. 2005. Preliminary evaluation of a lake whitefish (*Coregonus clupeaformis*) bioenergetics model. pp. 189 – 202. In L. C. Mohr & T. F. Nalepa (eds.) Proceedings of a workshop on the dynamics of lake whitefish (*Coregonus clupeaformis*) and the amphipod *Diporeia* spp. in the Great Lakes. Great Lakes Fisheries Commission Technical Report 66, Ann Arbor, Michigan.

Hondorp, D. W., S. A. Pothoven, and S. B. Brandt. 2005. Influence of *Diporeia* density on diet composition, relative abundance, and energy density of planktivorous fishes in southeast Lake Michigan. Transactions of the American Fisheries Society 134:588-601.

Madenjian, C. P., O'Connor, D. V., Pothoven, S. A., Schneeberger, P. J., Rediske, R. R., O'Keefe, J. P., Bergstedt, R. A., Argyle, R. L., and Brandt, S. B. 2006. Evaluation of a lake whitefish bioenergetics model. Transactions of the American Fisheries Society 135:61-75.

Madenjian, C. P., S. A. Pothoven, J. M. Dettmers, and J. D. Holuszko. 2006. Changes in seasonal energy dynamics of alewife (*Alosa pseudoharengus*) in Lake Michigan after invasion of dreissenid mussels. Canadian Journal of Fisheries and Aquatic Sciences 63:891-902.

Pothoven, S. A. and Nalepa, T. F. 2006. Feeding ecology of lake whitefish in Lake Huron. Journal of Great Lakes Research 32:489-501.

Pothoven, S.A., Nalepa, T. F., Madenjian, C. P., Rediske, R. R., Schneeberger, P. J., and He, J. X. 2006. Energy density of lake whitefish *Coregonus clupeaformis* in Lakes Huron and Michigan. Environmental Biology of Fishes 76:151-158.

Pothoven, S.A., Vanderploeg, H. A., Cavaletto, J. F., Krueger, D. M., Mason, D. M., and Brandt, S. B. 2007. Alewife planktivory controls the abundance of two invasive predatory cladocerans in Lake Michigan. Freshwater Biology 52:561-573

Pothoven, S.A., I. A. Grigorovich, G. L. Fahnenstiel, M. D. Balcer. 2007. Introduction of the Ponto-Caspian bloody-red mysid *Hemimysis anomala* into the Lake Michigan basin. Journal of Great Lakes Research 33:285-292.

Nalepa, T. F., Fanslow, D. L., Pothoven, S. A. Foley III, A. J., and Lang, G. A. 2007. Long-term trends in benthic macroinvertebrate populations in Lake Huron over the past four decades. Journal of Great Lakes Research 33:421-436.

Madenjian, C. P., O'Connor, D. V., Rediske, R. R., O'Keefe, J. P., and Pothoven, S. A. 2008. Net trophic transfer efficiencies of polychlorinated biphenyl congeners to lake

whitefish (*Coregonus clupeaformis*) from their food. *Environmental Toxicology and Chemistry* 27:631-636.

Pothoven, S. and Madenjian, C. 2008. Alewife and lake whitefish: changes in consumption following dreissenid invasions in Lakes Michigan and Huron. *North American Journal of Fisheries Management* 28:308-320.

Pothoven, S.A., Ludsin, S. A., Hook, T. O., Fanslow, D. L., Mason, D. M., Collingsworth, P., and Van Tassell, J. J. 2008. An evaluation of Bioelectrical impedance analysis for estimating fish energy, lipid, and water content. *Transactions of the American Fisheries Society* 137:1519-1529.

Lu, Y., S. A. Ludsin, D. L. Fanslow, S. A. Pothoven. 2008. Comparison of three micro-quantity techniques for measuring total lipids in fish. *Canadian Journal of Fisheries and Aquatic Sciences* 65:2233-2241.

Nalepa, T. F, Pothoven, S. A., and Fanslow, D. L. 2009. Recent changes in the benthic macroinvertebrate populations in Lake Huron and impact on the diet of lake whitefish (*Coregonus clupeaformis*). *Aquatic Ecosystem Health and Management* 12:2-10.

Hook, T. O. and Pothoven, S. P. 2009. Energy content of young alewives in eastern Lake Michigan and Muskegon Lake, a connected drowned river mouth lake. *North American Journal of Fisheries Management* 29:378-387.

Pothoven, S. A., Vanderploeg, H. A., Ludsin, S. A., Hook, T. O. & Brandt, S. B., 2009 Feeding ecology of emerald shiners and rainbow smelt in central Lake Erie. – *J. Great Lakes Res.* 35:190-198

Ruetz, C., R, Strouse, D. L. and Pothoven, S. A. 2009. Energy density of introduced round gobies compared with four native fishes in a Lake Michigan tributary. *Trans. Am. Fish. Soc.* 138:938-947.

Roberts, J. J., Hook, T. O., Ludsin, S. A., Pothoven, S. A., Vanderploeg, H. A. and Brandt, S. B. 2009. Effects of hypolimnetic hypoxia on foraging and distributions of Lake Erie yellow perch. *J. Mar. Exp. Biol. and Ecol.* 381:5132-5142.

Vanderploeg, H. A., Ludsin, Ruberg, S. A., Hook, T. O., Pothoven, S. A., Brandt, S. B., Lang, G. A, Liebig, J. R., and Cavaletto, J. F., 2009. Hypoxia affects spatial distribution and overlap of pelagic fish, zooplankton, and phytoplankton in Lake Erie. – *J. Mar. Exp. Biol. and Ecol.* 381:592-5107

Vanderploeg, H. A., Ludsin, S. A., Cavaletto, J. F., Hook, T. O., Pothoven, S. A., Brandt, S. B., Liebig, J. R., and Lang, G. A., 2009. Hypoxic zones as habitat for zooplankton in Lake Erie: refuges from predation or exclusion zones? – *J. Mar. Exp. Biol. and Ecol.* 381:5108-5120.

Madenjian, C., S.A. Pothoven, P.J. Schneeberger, M.P. Ebener, L.C. Mohr, T.F. Nalepa, and J.R. Bence. 2010. Dreissenid mussels are not a "dead end" in Great Lakes food webs. *Journal of Great Lakes Research* 36:73-77.

Fahnenstiel, G., Nalepa, T., Pothoven, S. Carrick, H. and Scavia, D. 2010. Lake Michigan lower food web: long term observations and *Dreissena* impact. *Journal of Great Lakes Research* 36: Supplement3: 1-4.

Nalepa, T. F., Fanslow, D.L., and Pothoven, S.A. 2010. Recent changes in density, biomass, recruitment, size structure, and nutritional state of *Dreissena* populations in southern Lake Michigan. *Journal of Great Lakes Research* 36: Supplement3: 5-19.

Fahnenstiel, F., Pothoven, S., Vanderploeg, H., Klarer, D., Nalepa, T., and Scavia, D. 2010. Recent changes in primary production and phytoplankton in the offshore region of southeastern Lake Michigan. *Journal of Great Lakes Research* 36: Supplement3: 20-29.

Mida, J.L., Scavia, D., Fahnenstiel, G.L., Pothoven, S.A., Vanderploeg, H.A., and Dolan, D.M. 2010. Long-term and recent changes in southern Lake Michigan water quality with implications for present trophic status. *Journal of Great Lakes Research* 36: Supplement3: 42-49.

Vanderploeg, H.A., Liebig, J.R., Nalepa, T.F., Fahnenstiel, G.L., and Pothoven, S.A. 2010. *Dreissena* and the disappearance of the spring phytoplankton bloom in Lake Michigan. *Journal of Great Lakes Research* 36: Supplement3: 50-59.

Pothoven, S.A., Fahnenstiel, G.L., and Vanderploeg, H.A. 2010. Temporal trends in *Mysis relicta* abundance, production, and life-history characteristics in southeastern Lake Michigan. *Journal of Great Lakes Research* 36: Supplement3: 60-64.

Cavaletto, J.F., Vanderploeg, H.A., Pichlova-Ptacnikova, R., Pothoven, S.A., Liebig, J.R., and Fahnenstiel, G.L. 2010. Temporal and spatial separation allow coexistence of predatory cladocerans: *Leptodora kindtii*, *Bythotrephes longimanus* and *Cercopagis pengoi*, in southeastern Lake Michigan. *Journal of Great Lakes Research* 36: Supplement3: 65-73.

Pothoven, S.A., Hondorp, D.W, and Nalepa, T.F. 2011. Declines in deepwater sculpin *Myoxocephalus thompsonii* energy density associated with the disappearance of *Diporeia* spp. in lakes Huron and Michigan. *Ecology of Freshwater Fish* 20:14-22.

Hondorp, D.W., Pothoven, S.A., Brandt, S.B. 2011. Feeding selectivity of slimy sculpin *Cottus cognatus* and deepwater sculpin *Myoxocephalus thompsonii* in southeast Lake Michigan: Implications for species coexistence. *J. Great Lakes Res.* 37:165-172.

### **Selected Conference Presentations**

Pothoven, S., B. Vondracek, and D. Pereira. 1994. An evaluation of the indirect effects of fluridone on fish communities of two Minnesota lakes. 56th Midwest Fish and Wildlife Conference, Indianapolis, Indiana.

Pothoven, S., B. Vondracek, and D. Pereira. 1994. An evaluation of the indirect effects of fluridone on fish communities of two Minnesota lakes: Pre-treatment results. 27<sup>th</sup> Annual Meeting, Minnesota Chapter, American Fisheries Society, St. Cloud, MN.

Pothoven, S.A., B. Vondracek, and D. Pereira. 1995. Effects of vegetation removal on the fish community structure and predator-prey relations in two Minnesota lakes. 57th Midwest Fish and Wildlife Conference, Detroit, Michigan.

Pothoven, S.A., B. Vondracek, and D. Pereira. 1995. The indirect effects of fluridone (SONAR ®) on the fish communities of Minnesota lakes. 1995 Joint Meeting of the Iowa/Minnesota chapters of the American Fisheries Society, Okoboji, Iowa.

Pothoven, S.A., B. Vondracek, and D. Pereira. 1996. Effects of vegetation removal on the fish community structure and predator-prey relations in two Minnesota lakes. 1996 Joint meeting of the Minnesota chapters of the American Fisheries Society, Society of American Foresters, and The Wildlife Society, Brainerd, Minnesota.

Pothoven, S.A., B. Vondracek, and D. Pereira. 1997. Effects of vegetation removal on the fish community structure and predator-prey relations in two Minnesota lakes. Annual Meeting, New York Chapter American Fisheries Society Meeting, Owego, NY.

Pothoven, S. A., E. Demers, J.M. Jech, and S. B. Brandt. 1998. Diel, seasonal, and interannual patterns in prey availability in the upper Chesapeake Bay: A striped bass perspective. American Fisheries Society 128<sup>th</sup> Annual Meeting, Hartford CN.

Pothoven, S.A., S. B. Brandt, T. Nalepa, M. Quigley. 1999. Diets of Lake Whitefish in southeastern Lake Michigan. 61th Midwest Fish and Wildlife Conference, Chicago, Illinois Dec 4-7.

Pothoven, SA, Hondorp, D, and Brandt, S. 2000. Effects of *Diporeia* declines on bloater and alewife in Lake Michigan. 62<sup>nd</sup> Midwest Fish and Wildlife Conference, Minneapolis, MN, December 3-6, 2000.

Pothoven, S, Hondorp, D, Nalepa, T, and Brandt, S. Effects of *Diporeia* declines on Lake Michigan forage fishes. 44<sup>th</sup> Conference on Great Lakes Research, IAGLR, June 10-14, 2001; Green Bay WI.

Pothoven, S. A., Hondorp, D. W., and Brandt, S. B. Status of *Mysis* in southeastern Lake Michigan. 46<sup>th</sup> Conference on Great Lakes Research, IAGLR, June 22-26, 2003; Chicago, IL

Pothoven, S. A., Hondorp, D. W., Brandt, S. B., and Nalepa, T. F. Effects of *Diporeia* declines on diet, condition, and abundance of alewife, bloater, and rainbow smelt in Lake

Michigan. 134<sup>th</sup> Annual American Fisheries Society Meeting, August 22-26, 2004. Madison, WI.

Pothoven, S. A. and T. F. Nalepa. Feeding ecology of lake whitefish in Lake Huron. 48<sup>th</sup> Conference on Great Lakes Research, IAGLR, May 23-27, 2005; Ann Arbor, MI.

Pothoven, S. A. and T. F. Nalepa. Diet characteristics of lake whitefish in Lake Huron following declines of *Diporeia*. 2005 Midwest Fish and Wildlife Conference. Dec. 11-14, 2005. Grand Rapids, MI.

Pothoven, S.A., Nalepa, T. F., Madenjian, C. P., Rediske, R. R. Schneeberger, P. J., and He, J. X. Energy density of lake whitefish in Lakes Huron and Michigan. 49<sup>th</sup> Conference on Great Lakes Research, IAGLR, May 22-26, 2006; Windsor, Ontario.

Pothoven, SA, Ludsin, S, Vanderploeg, H., Hook, T. Effects of Lake Erie hypoxia on pelagic fish feeding ecology. (poster). 50<sup>th</sup> Conference on Great Lakes Research, IAGLR, May 28-June 1, 2007; University Park, PA.

Pothoven, S. A. and Nalepa, T. F. Fish diets and condition in Lake Huron. (poster). 51<sup>st</sup> Conference on Great Lakes Research, IAGLR, May 19-23, 2008; Peterborough, Ontario

Pothoven, SA, Fahnenstiel, GL, Vanderploeg, HA, Nalepa, TF, Madenjian, CP. Changes in southeast Lake Michigan offshore lower food web and implications for fish. presented at Michigan Chapter of the American Fisheries Society annual meeting, March 18, 2009, Dundee, MI.

Pothoven, SA, Fahnenstiel, G.L., Vanderploeg, H.A. Mysis in Lake Michigan 52nd Conference on Great Lakes Research, IAGLR, May 18-22, 2009; Toledo, OH.

### **Selected Reports**

Pothoven, S.A., B. Vondracek and D.L. Pereira. 1996. An evaluation of the indirect effects of flouridone on the fish communities of two Minnesota lakes. Final Report, Minnesota Department of Natural Resources, St. Paul, Minnesota.

Pothoven, S. A., Brandt, S. B., Jech, J. M., Horne, J. 1998. Fish Abundance, Size and Species Composition: Kent Island Site #104. *In* Assessment of Fish Community Structure Near Site 104, *ed.* T. Miller. Prepared for Maryland Port Administration, Baltimore, Maryland. Maryland Environmental Service, Annapolis, Maryland.

Brandt, S. B., Hondorp, D.W, Pothoven, S.A, Nalepa, T. 2004. Effect of *Diporeia* decline on fish diet, growth, and food web dynamics in Lake Michigan. Final Report, Great Lakes Fishery Trust.

Pothoven, S. A., C. P. Madenjian, D. O'Connor, P. J. Schneeberger, S. B. Brandt. 2005. An evaluation of bioenergetics modeling for lake whitefish in Lake Michigan. Final Report, Great Lakes Fishery Trust.

Dettmers, J.M., C. P. Madenjian, P. J. Allen, S. A. Pothoven, T. F. Nalepa. 2008. Impacts of recent invasive species on nearshore fishes. *In* The state of Lake Michigan in 2005. Edited by D. F. Clapp and W. Horns. Great Lakes Fish. Comm. Spec. Pub. 09-02. pp. 19-26.

### **Grants**

S. Brandt, S. Pothoven, D. Hondorp, and T. Nalepa. 1999. Effects of *Diporeia* declines on fish diet, growth and food web dynamics in southeast Lake Michigan. Great Lakes Fishery Trust, \$277,000 (3 years) Co-PI.

S. Pothoven, C. Madenjian, D. O'Connor, P. Schneeberger, S. Brandt. 2001. An evaluation of bioenergetics modeling for lake whitefish in Lake Michigan. Great Lakes Fishery Trust, \$201,114 (3 years).

Nalepa, T. F., S. A. Pothoven, G. K. Walker. Investigations of *Diporeia* and lake whitefish in Lake Huron. Michigan Great Lakes Protection Fund. \$53,656 (1 Year) Co-PI.

Stowe et al. Adaptive Integrated Framework (AIF): a new methodology for managing impacts of multiple stressors in coastal ecosystems. 2007. NOAA Center for COP. \$3.76 million (5 years) Co-PI

Hook, T., Nalepa, T., Rinchar, J., Stott, W., Pothoven, S., Ludsin, S., Johengen, T., Jude, D., and Wiley, M. 2008. Mapping the condition of *Diporeia*: Insights to mechanisms of declines. Great Lakes Fishery Trust, \$569,898 (4 years) Co-PI.

Mason, D., Madenjian, C., Pothoven, S. Effect of activity on bioenergetics model performance in the laboratory, funded by GLFC pilot proposal program. \$9,900 (1 year)

Ji et al. Quantifying new top-down influences on the rapidly changing food-web in the main basin of Lake Huron, funded by GLFC \$129,700, 3 years 2010-2012 (associated PI)

### **Awards**

Augustana College Presidential Scholar Award (1989)

University of Minnesota Department of Fisheries and Wildlife Fellowship (1993)

### **Professional Affiliations**

American Fisheries Society

Michigan Chapter American Fisheries Society

### **Selected Service and Outreach Activities**

Peer Reviewer for: Transactions of American Fisheries Society, North American Journal of Fisheries Management, Canadian Journal of Fisheries and Aquatic Sciences, Journal of Great Lakes Research, Annales De Limnologie, New York Sea Grant, Aquatic Living Resources, Ecology of Freshwater Fish August, Journal of Fish Biology, Arctic-Yukon-



Kuskokwim Sustainable Salmon Initiative, Great Lakes Fishery Trust, Oregon Sea Grant, Marine and Freshwater Research, Fisheries Management and Ecology

Fruitport Middle School, Fruitport, MI, 1998

Muskegon Anglers Association, Muskegon, MI, 1999

“Lower Food Web Dynamics in Lake Michigan” SeaGrant Regional Fishery Workshop-Grand Haven, Spring Lake, MI 2000

Muskegon Anglers Association, Muskegon, MI, April 2000

“Lower Food Web Dynamics in Lake Michigan” SeaGrant Regional Fishery Workshop, Benton Harbor, MI, February 2001.

White Lake Sportfishing Association, Whitehall, MI, February 2001.

Muskegon Conservation Club, Muskegon, MI, May 2001.

Michigan Angler's Association, Muskegon, MI, January 2003,

“Lake whitefish diet and condition: Lakes Huron and Michigan” Michigan Fish Producers Association, Traverse City, MI. Sponsored by Michigan Sea Grant, January 2005.

Michigan Angler's Association. Muskegon, MI, May 2006.

Enhancing GLERL Science in the Classroom (Center for Ocean Sciences Education Excellence) August 16, 2006; Muskegon, MI.

The appearance of the bloody red shrimp in the Great Lakes. Lake Michigan Fishery Workshop-Sea Grant. Spring Lake MI, March, 3, 2007.

CBS national news, quagga mussels interview and cruise on Shenelon 10/4-5/07

“Status of bloody red shrimp and opossum shrimp in Lake Michigan” presented to Sea Grant regional fishery workshop, Ludington, MI, January 5, 2008 (119 participants)

“Lower food web changes and implications for the Lake Michigan fishery” presented to Sea Grant regional fishery workshop, Grand Haven, MI, March 1, 2008

Muskegon Environmental Coordinating Council 10/14/08; Muskegon, MI

Lower food web dynamics and the future of fishing. Sea Grant Regional Fishery workshop, Grand Haven, MI, April, 25, 2009.

Sea Grant fishery Workshop: "Lake Michigan ecosystem in transition: changes in forage fish diets and condition" Ludington, MI 1/9/2010

Grand Haven Great Lakes Night: "Impact of recent invaders on Lake Michigan" Grand Haven, MI 6/10/2010 (Sea Grant)

Muskegon State Park, Impacts of invasive species in Lake Michigan, Muskegon, MI, 7/17/2010

Lake Huron Citizens Fishery Advisory Committee, January 12, 2011, Roscommon MI  
"The impact of multiple stressors on fisheries in Saginaw Bay"