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## Education

*Ph.D., Oceanography and Limnology*, University of Wisconsin, Madison, Wisconsin 1995

*M.S., Oceanography and Limnology*, University of Wisconsin, Madison, Wisconsin 1991

*B.S., Biological Sciences*, University of Notre Dame, Notre Dame, Indiana 1987

## Professional Positions

*Editor-in-Chief*, *Limnology & Oceanography Letters*. 2015-present.

*Professor*, Dept. of Fisheries and Wildlife, Michigan State University, East Lansing, Michigan. 2012-present

*Associate Professor*, Dept. of Fisheries and Wildlife, Michigan State University, East Lansing, Michigan. 2002-2012

*Assistant Professor*, Dept. of Fisheries and Wildlife, Michigan State University, East Lansing, Michigan. 1996-2002

*Post-doctoral Research Associate*, Trout Lake Station, University of Wisconsin, Boulder Junction, Wisconsin. 1995-1996

*Research Assistant*, Center for Limnology, University of Wisconsin, Madison, Wisconsin. 1989-1995

*Biological Technician III*, University of Notre Dame, Notre Dame, Indiana. 1987-1989

## Awards and Honors

*William J. Beal Outstanding Faculty Award*, Michigan State University, 2016.

Excellence Award in Interdisciplinary Scholarship by the MSU Chapter of the Honor Society of Phi Kappa Phi. Awarded to interdisciplinary team: K.S. Cheruvilil, K.C. Elliott, G.M. Montgomery, I. Settles, P.A. Soranno & P.-N. Tan. 2015.

Fellow, *Lilly Teaching Fellows Program*, Michigan State University. 1999-2000.

## Grants

*National Science Foundation, Macrosystems Biology Program, Biology Directorate, Emerging Frontiers Division.*

REU Supplement to MSB-FRA: *A macrosystems ecology framework for continental-scale prediction and understanding of lakes*. **PA Soranno (PI)**, KS Cheruvilil, P-N Tan, J Zhou, (Michigan St. Univ). 2018-2019. \$35,208.

*National Science Foundation, Macrosystems Biology Program, Biology Directorate, Emerging Frontiers Division.*

Collaborative proposal MSB-FRA: *A macrosystems ecology framework for continental-scale prediction and understanding of lakes*. **PA Soranno (PI)**, KS Cheruvilil, P-N Tan, J Zhou, (Michigan St. Univ., Lead Institution); EH Stanley, C Gries, NR Lottig (Univ. Wisconsin); T Wagner, E Hanks (Penn. St. Univ.); E Schliep (Univ. Missouri). 2016-2021. \$4,257,250 (MSU, lead institution, portion \$2,392,743).

*National Science Foundation, Dynamics of Coupled Natural and Human Systems, Directorate of Environmental Biology.*

CNH-L: Linking land-use decision making, water quality, and lake associations to understand human-natural feedbacks in lake catchments. PI: K.M. Cobourn; co-PIs: K.J. Boyle, C.C. Carey, K.J. Duffy, P.C. Hanson; Senior personnel: A.R. Kemanian, J.L. Klug, L.G. Rudstam, **P.A. Soranno**, M.G. Sorice, M.J. Vanni, K.C. Weathers. 2015-2018. \$1,799,931 (MSU portion \$195,019).

*Michigan State University Science Network, WaterCube Program.* Ecological linkages between terrestrial and aquatic systems. PI: K. Dahlin, co-PIs: P. Zarnetske, **P.A. Soranno**, K.S. Cheruvilil. 2015-2017. \$80,000.

*National Science Foundation, Cultivating cultures for ethical STEM, Directorate for Social, Behavioral & Economic Sciences.* Ethical standards and practices of environmental science teams: Does team diversity matter? PI: K.C. Elliott, co-PIs: K.S. Cheruvilil, G.M. Montgomery, I.H. Settles, **P.A. Soranno**. 2014-2019. \$600,000.

*Michigan State University Science Studies at State Program.* Conceptions of good science in a data-rich world. PIs: **P.A. Soranno (Lead)**, K.S. Cheruvilil, K.C. Elliot, G.M. Montgomery, P.-T. Tan. 2014 - 2016. \$10,000

*U.S. Environmental Protection Agency, 205J Funds* via Huron River Watershed Council and the MI-Department of Environmental Quality: Revision, update, and validation of the lake-specific model for establishing expected nutrient conditions in Michigan lakes, PI: K.S. Cheruvellil, co-PI: **P.A. Soranno**. 2012 – 2014. \$116,400.

*National Science Foundation, Macrosystems Biology Program, Biology Directorate, Emerging Frontiers Division*. EF 1258503. Macrosystems biology: an emerging perspective.. PI: S. Silver, co-PI: **P.A. Soranno**. 2012-2014. \$77,075.

*National Science Foundation, Macrosystems Biology Program, Biology Directorate, Emerging Frontiers Division*. Supplement to: The effects of cross-scale interactions on freshwater ecosystem state across space and time. PI: **P.A. Soranno**, co-PIs: K.S. Cheruvellil, P-N. Tan. 2012-2014. \$209,913

*National Science Foundation, Macrosystems Biology Program, Biology Directorate, Emerging Frontiers Division*. EF1065786. The effect of cross-scale interactions on freshwater ecosystem state across space and time. PI: **P.A. Soranno**, co-PIs: K.S. Cheruvellil, E.H. Stanley, J.A. Downing, N.R. Lottig, P-N. Tan. 2011-2016. \$2,204,673 (MSU (lead institution) portion \$1,377,823.

*MSU CWS/ESPP Innovation Grant Program*. Lakes as Complex Socio-Ecological Systems: Exploring the Causalities between Human Land Use Decisions and Landscape Limnological Processes to Inform Sustainable Water Conservation Policies. PI: A. Ligmann-Zielinska, CO-PIs: M.T. Bremigan, K.S. Cheruvellil, D.B. Kramer, **P.A. Soranno**. May 2011 – May 2013. \$49,978.

*Center for Water Sciences Post-doctoral Program*. \$131,500. Understanding complex aquatic landscapes: Lakes as model systems for integrating ecology, economics, human behavior and policy. PI: Cheruvellil, K.S., co-PIs: M.T. Bremigan, D.B. Kramer A. Ligmann-Zielinska, **P.A. Soranno**, and K.E. Webster. 2009 –2011.

*Center for Water Sciences Venture Grant Program*. \$10,000. Impacts of large-capacity groundwater withdrawal on lake and wetland ecosystems: Michigan lakes as a model for conducting research to inform policy of water withdrawals. PI's: **P.A. Soranno** and J.A. Latimore. 2009-2010.

*Environmental Protection Agency Region 5 - funding under Section 106, Clean Water Act, FY 2009*. \$18,617. Use of the BTPM framework to develop nutrient criteria for lakes of the Fond du Lac Band of the Lake Superior Chippewa. Subcontract to **P.A. Soranno**. May 2009 – April 2010.

*Environmental Protection Agency Region 5 - funding under Section 106, Clean Water Act, FY 2009*. \$18,617. Use of the BTPM framework to develop nutrient criteria for lakes of the Grand Portage Band of the Lake Superior Chippewa. Subcontract to **P.A. Soranno**. May 2009 – April 2010.

*Center for Water Sciences Venture Grant Program*, \$16,408. WETL.AKE Project: Effects of wetland type, extent and connectivity on lake chemistry. PI's: **P.A. Soranno** and C. Yansa. August 2008 – July 2009.

*Environmental Protection Agency-Office of Wetlands, Oceans and Watershed*, \$245,208. A hydrogeomorphic lake classification system for refining lake assessment at multiple spatial scales. PI: **P.A. Soranno**, co-PIs: K.E. Webster, M.T. Bremigan and others. 2005-2007.

*National Park Service*, \$73,855. Water resources assessment of the Indiana Dunes National Lakeshore. PI: K. Spence Cheruvellil, co-PIs: **P.A. Soranno**, E. Rosi-Marshall and J. Tank. 2005-2006.

*Michigan Department of Environmental Quality – Great Lakes Environmental Center*, \$309,447. Nutrient criteria development support. PI's: R. Jan Stevenson and **P.A. Soranno**. 2005-2006.

*Michigan Department of Natural Resources – Fisheries Division*, \$80,000. Developing a lake classification system for Michigan inland lakes. PI's: **P.A. Soranno**, **P.A.**, M.T. Bremigan, K. Wehrly and J.E. Breck. 2004-2006.

*Michigan Department of Natural Resources – Fisheries Division*, \$183,694. Managing Michigan Lakes: Evaluating Effects of Watersheds and habitat perturbation on Lake Resources. PI's: Bremigan, M.T. and **P.A. Soranno**. October 2002-2006.

*USGS-Water Quality Grants*, \$15,000. Water quality trends of Michigan inland lakes and their relationship to ecoregions:1974-2001. PI: **P.A. Soranno**, **P.A.** March 2002 – March 2003.

*M.S.U. Agricultural Experiment Station Disciplinary Research Grants*, \$90,000. *A multi-scaled landscape-context model to predict abiotic and biotic lake characteristics*. P.I.'s: **P.A. Soranno** and M. T. Bremigan. July 2001 – July 2004.

*USGS-Water Quality Grants*, \$15,000. *Building a landscape context for lake ecological processes*. P.I.'s: **P.A. Soranno** and M.T. Bremigan. March 2001 – March 2002.

*National Science Foundation*, \$500,000 (MSU - \$107,399). *Impacts of a strong interactor along a productivity gradient: Linking watersheds with reservoir food webs*. PI: Michael Vanni (MU), co-PIs: W. Renwick (MU); R. Stein (OSU); **P.A. Soranno** and M.T. Bremigan (MSU); and M. Gonzalez (WSU). June 1998 – June 2001.

*College of Agriculture and Natural Resources and the College of Social Science*, \$222,482. Understanding and predicting landscape dynamics: Integration of Ecological Human Dimensions for Ecosystem Management. P.I.'s: J. Liu, **P.A. Soranno** and A. Mertig. September 1997 – 2001.

*Michigan Agricultural Experiment Station*, \$52,000. The effect of changing exotic macrophyte communities on fish and macroinvertebrate population dynamics. PI: **P.A. Soranno**. June 1997 - June 2000.

Michigan State University Extension, \$22,750. Synthesis and extension of Sonar® research in Michigan lakes. P.I.: **P.A. Soranno**. June 1997 - June 2000.

Michigan Sea Grant College Program. Program development grant - \$10,000. Impacts of upstream land use on near-shore Great Lakes habitats and biological communities. P.I.: **P.A. Soranno**. January 1997 - January 1998.

## Publications

*Italicized text* Student or post-doctoral co-author  
§ Joint lead-author

### *Perspectives and commentary*

5. **Soranno, P.A.** and *L.J. Falkenberg*. 2018. How editorial fellowships at society journals can provide opportunities for early career researchers in publishing: A case study of the Raelyn Cole Editorial Fellowship. *Limnology and Oceanography Bulletin*. *In press*. <https://doi/10.1002/lob.10252>
4. *Falkenberg, L.J.* and **P.A. Soranno**. 2017. Reviewing reviews: an evaluation of peer reviews of journal article submissions. *Limnology and Oceanography Bulletin* 27:1-5. <https://doi.org/10.1002/lob.10217>
3. **Soranno, P.A.** 2016. L&O Letters: Why we need a new journal for the aquatic sciences. *Limnology & Oceanography Letters*. 1:1-2. doi: 10.1002/lol2.10025.
2. **Soranno, P.A.**, and D.S. Schimel. 2014. Macrosystems ecology: Big data, big ecology. Guest editorial in the special issue on Macrosystems Ecology, *Frontiers in Ecology and the Environment*. 12(1):3.
1. Tallis, H., Lubchenco, J. Adams, V.M., Adams-Hosking, C., Agostini, V.N., Andelman, S.J., Arkema, K., Balvanera, P., Ban, N., Beger, M., Bennett, E., Biggs, R., Blanchette, C., Boersma, P.D., Bottrill, M.C., Chaplin-Kramer, R., Coll, M., Corrigan, C., Cross, M.S., Daily, G., DeFries, R., DiFonzo, M.M.I., Ehrlich, A., Carmona, N.E., Ferreira, J., Foley, M., Francis, T., Fraschetti, S., Fuentes, M.M.P.B., Gaiser, E.E., and 210 additional co-authors including **P.A. Soranno**. 2014. A call for inclusive conservation. *Nature* 515: 27-28

### *Peer-reviewed journal articles*

78. Cheruvilil, K.S. and P.A. Soranno. 2018. Data-intensive ecological research is catalyzed by open science and team science. *BioScience*. *In press*. <https://doi.org/10.1093/biosci/biy097>
77. Lapierre, J.-F., *S.M. Collins*, D.A. Seekell, K.S. Cheruvilil, *N.K. Skaff*, Z.E. Taranu, C.E. Fergus, P.-N. Tan. **P.A. Soranno**. 2018. Similarity in spatial structure constrains ecosystem relationships: Building a macroscale understanding of lakes. *Global Ecology and Biogeography*. *In press*.
76. Cobourn, K.M., C.C. Carey, K.J. Boyle, C. Duffy, H.A. Dugan, *K.J. Farrell*, L. Fitchett, P.C. Hanson, *J.A. Hart*, V.R. Henson, *A.L. Hetherington*, A.R. Kemanian, L.G. Rudstam, L. Shu, **P.A. Soranno**, M.G. Sorice, *J. Stachelek*, *N.K. Ward*, K.C. Weathers, *W. Weng*, Y. Zhang. 2018. From concept to practice to policy: modeling coupled natural and human systems in lake catchments. *Ecosphere* 9(5):e02209. <https://doi.org/10.1002/ecs2.2209>
75. *Oliver, S.K. C.E. Fergus*, *N.K. Skaff*, T. Wagner, P.-N. Tan, K.S. Cheruvilil, **P.A. Soranno**. 2018. Strategies for effective collaborative manuscript development in interdisciplinary science. *Ecosphere* 9(4):e02206. <https://doi.org/10.1002/ecs2.2206>
74. Stow, C.A., K.E. Webster, T. Wagner, N.R. Lottig, **P.A. Soranno**, and Y-K. Cha. 2018. Small values in big data: The continuing need for appropriate metadata. *Ecological Informatics* 45:26-30. <https://doi.org/10.1016/j.ecoinf.2018.03.002>
73. Settles, I.H., *S.T. Brassel*, G.M. Montgomery, K.C. Elliott, **P.A. Soranno**, K.S. Cheruvilil. 2018. Missing the mark: A new form of honorary authorship motivated by desires for inclusion. *Innovative Higher Education*. <https://doi.org/10.1007/s10755-018-9429-z>
72. *Yuan, S.*, J. Zhou, P.N. Tan, *C.E. Fergus*, T. Wagner, T., **P.A. Soranno**. 2017. Multi-level multi-task learning for modeling cross-scale interactions in nested geospatial data. *Proceedings of the IEEE International Conference on Data Mining*. New Orleans, Louisiana. November 18-21, 2017.
71. Lottig, N., P.-N. Tan, T. Wagner, K.S. Cheruvilil, **P.A. Soranno**, E. Stanley, *C. Scott*, C. Stow, *S. Yuan*. 2017. Macroscale patterns of synchrony identify complex relationships among spatial and temporal ecosystem drivers. *Ecosphere* 8(12):e02024. <https://doi.org/10.1002/ecs2.2024>
70. **Soranno, P.A.**, L.C. Bacon, M. Beauchene, K.E. Bednar, E.G. Bissell, *C.K. Boudreau*, M.G. Boyer, M.T. Bremigan, S.R. Carpenter, J.W. Carr, K.S. Cheruvilil, *S.T. Christel*, M. Claucherty, *S.M. Collins*, J.D. Conroy, J.A. Downing, J. Dukett, *C.E. Fergus*, *C.T. Filstrup*, C. Funk, M.J. Gonzalez, L.T. Green, C. Gries, J.D. Halfman, S.K.

- Hamilton, P.C. Hanson, *E.N. Henry*, E.M. Herron, C. Hockings, J.R. Jackson, K. Jacobson-Hedin, L.L. Janus, W.W. Jones, J.R. Jones, C.M. Keson, *K.B.S. King*, S.A. Kishbaugh, *J.-F. Lapierre*, B. Lathrop, J.A. Latimore, Y. Lee, N.R. Lottig, J.A. Lynch, L.J. Matthews, W.H. McDowell, K.E.B. Moore, B.P. Neff, S.J. Nelson, *S.K. Oliver*, M.L. Pace, D.C. Pierson, A.C. Poisson, A.I. Pollard, D.M. Post, P.O. Reyes, D.O. Rosenberry, K.M. Roy, L.G. Rudstam, O. Sarnelle, N.J. Schuldt, *C.E. Scott*, *N.K. Skaff*, *N.J. Smith*, N.R. Spinelli, *J.J. Stachelek*, E.H. Stanley, J.L. Stoddard, S.B. Stopyak, C.A. Stow, J.M. Tallant, P.-N. Tan, A.P. Thorpe, M.J. Vanni, T. Wagner, G. Watkins, K.C. Weathers, K.E. Webster, *J.D. White*, M.K. Wilmes, *S. Yuan*. 2017. LAGOS-NE: A multi-scaled geospatial and temporal database of lake ecological context and water quality for thousands of U.S. lakes. *Gigascience*. *Gigascience* 6(12):1-22. <https://doi.org/10.1093/gigascience/gix101>
69. Resnik, D.B., K.C. Elliott, **P.A. Soranno**, and E.M. Smith. 2017. Data-intensive science and research integrity. *Accountability in Research*. 24(6):344-358. doi: 10.1080/08989621.2017.1327813
  68. *Fergus, C.E.*, J.-F. Lapierre, *S.K. Oliver*, *N. Skaff*, K.S. Cheruvilil, **P.A. Soranno**, K.E. Webster, C. Scott. 2017. The freshwater landscape: Lake, wetland, and stream abundance and connectivity at macroscales. *Ecosphere* 8(8):e01911. <https://doi.org/10.1002/ecs2.1911>
  67. *Oliver, S.K.*, *S.M. Collins*, **P.A. Soranno**, T. Wagner, E.H. Stanley, J. Jones, C. Stow, N.R. Lottig. 2017. Unexpected stasis in a changing world: Lake nutrient and chlorophyll trends since 1990. *Global Change Biology* 23:5455–5467. doi: 10.1111/gcb.13810
  66. *Collins, S.M.*, *S.K. Oliver*, *J.-F. Lapierre*, E.H. Stanley, J. Jones, T. Wagner, **P.A. Soranno**. 2017. Lake nutrient stoichiometry is less predictable than nutrient concentrations at regional and sub-continental scales. *Ecological Applications* 27:1529–1540. doi:10.1002/eap.1545
  65. *Lapierre, J.-F.*, D. Seekell, C.T. Filstrup, *S.M. Collins*, *C.E. Fergus*, **P.A. Soranno**, K.S. Cheruvilil. 2017. Continental-scale variation in controls of summer CO<sub>2</sub> in United States lakes. *Journal of Geophysical Research – Biogeosciences*. 122(4):875-885. <http://dx.doi.org/10.1002/2016JG003525>
  64. *Yuan, S.*, P.-N. Tan, K.S. Cheruvilil, *C.E. Fergus*, *N.K. Skaff*, and **P.A. Soranno**. 2017. Learning hash-based features for incomplete continuous-valued data. *Proceedings of the 2017 SIAM International Conference on Data Mining*. Houston, Texas. April 27-29, 2017.
  63. Cheruvilil, K.S., *S. Yuan*, K.E. Webster, P.-N. Tan, *J.-F. Lapierre*, *S.M. Collins*, *C.E. Fergus*, *C.E. Scott*, E.N. Henry, **P.A. Soranno**, C.T. Filstrup, T. Wagner. 2017. Creating multi-themed ecological regions for macrosystems ecology: Testing a flexible, repeatable, and accessible clustering method. *Ecology and Evolution*. 7: 3046–3058. doi: 10.1002/ece3.2884
  62. Elliott, K.C., I.S. Settles, G.M. Montgomery, *S.T. Brassel*, K.S. Cheruvilil, and **P.A. Soranno**. 2017. Honorary authorship practices in environmental science teams: structural and cultural causes and solutions. *Accountability in Research: Policies and quality assurance* 24(2):80-98. <http://dx.doi.org/10.1080/08989621.2016.1251320>
  61. *Fergus, C.E.*, A.O. Finley, **P.A. Soranno**, T. Wagner. 2016. Spatial variation in the nutrient-color paradigm at macroscales. *PLoS ONE*. 11(10): e0164592. doi:10.1371/journal.pone.0164592
  60. Elliott, K.C., **Soranno, P.A.**, K.S. Cheruvilil, and G.M. Montgomery. 2016. Conceptions of good science in our data-rich world. *BioScience* 66(10):880-889. *\*Selected to be Editors' Choice.*
  59. Wagner, T., *C.E. Fergus*, C.A. Stow, K.S. Cheruvilil, and **P.A. Soranno**. 2016. The statistical power to detect cross-scale interactions at macroscales. *Ecosphere* 7(7):e01417. 10.1002/ecs2.1417
  58. *Oliver, S.K.*, **P.A. Soranno**, E. Fergus, T. Wagner, *L.A. Winslow*, *C.E. Scott*, K.E. Webster, J.A. Downing, and E.H. Stanley. 2016. Prediction of lake depth across a 17-state region in the United States. *Inland Waters* 6:314-324. doi: 10.5268/IW-6.3.957
  57. *Yuan, S.*, P.-N. Tan, K.S. Cheruvilil, *S.M. Collins*, and **P.A. Soranno**. 2015. Constrained spectral clustering for regionalization: Exploring the trade-off between spatial contiguity and landscape homogeneity. *Proceedings of the 2015 IEEE International Conference on Data Science and Advanced Analytics*. 19-21 October 2015. Pg 1-10. doi:10.1109/DSAA.2015.7344878
  56. **Soranno, P.A.**, K.S. Cheruvilil, T. Wagner, K.E. Webster, M.T. Bremigan. 2015. Effects of land use on lake nutrients: The importance of scale, hydrologic connectivity, and region. *PLoS ONE* 10(8): e0135454 <http://dx.doi.org/10.1371/journal.pone.0135454>.
  55. **Soranno, P.A.**, E.G. Bissell, K.S. Cheruvilil, *S.T. Christel*, *S.M. Collins*, *C.E. Fergus*, *C.T. Filstrup*, *J.F. Lapierre*, N.R. Lottig, *S.K. Oliver*, *C.E. Scott*, N.J. Smith, S. Stopyak, *S. Yuan*, M.T. Bremigan, J.A. Downing, C. Gries, *E.N. Henry*, *N.K. Skaff*, E.H. Stanley, C.A. Stow, P.-N. Tan, T. Wagner, K.E. Webster. 2015. Building a multi-scaled geospatial temporal ecology database from disparate data sources: Fostering open science and data reuse. *GigaScience* 4:28 doi:10.1186/s13742-015-0067-4

54. **Soranno, P.A.**, K.S. Cheruvilil, K.C. Elliott, and G.M. Montgomery. 2015. It's good to share: Why environmental scientists' ethics are out of date. *BioScience* 65(1):69-73. doi:10.1093/biosci/biu169
53. *Filstrup, C.T.*, T. Wagner, P.A. Soranno, E.H. Stanley, C.A. Stow, K.E. Webster, and J.A. Downing. 2014. Regional variability among nonlinear chlorophyll-phosphorus relationships in lakes. *Limnology and Oceanography* 59(5):1691-1703.
52. Heffernan§, J.B., **P.A. Soranno**§, M.J. Angilletta, L.B. Buckley, D.S. Gruner, T.H. Keitt, J.R. Kellner, J.S. Kominoski, A.V. Rocha, J. Xiao, T.K. Harms, S.J. Goring, L.E. Koenig, W.H. McDowell, H. Powell, A.D. Richardson, C.A. Stow, R. Vargas, K.C. Weathers. 2014. Macrosystems ecology: Understanding ecological pattern and process at continental scales. *Frontiers in Ecology and the Environment*. 12(1):5-14.  
§ Joint lead author
51. **Soranno, P.A.**, K.S. Cheruvilil, E. Bissell, M. Tate Bremigan, J.A. Downing, *C.E. Fergus, C. Filstrup*, N.R. Lottig, *E.N. Henry*, E.H. Stanley, C.A. Stow, P.-N. Tan, T. Wagner, K.E. Webster. 2014. Cross-scale interactions: Quantifying multi-scaled cause-effect relationships in macrosystems. *Frontiers in Ecology and the Environment*. 12(1):65-73.
50. *Ruegg, J.*, C. Gries, B. Bond-Lamberty, G.J. Bowen, B.S. Felzer, N.E. McIntyre, **P.A. Soranno**, K.L. Vanderbilt, K.C. Weathers. 2014. Completing the data life cycle: Using information management in macrosystems ecology research. *Frontiers in Ecology and the Environment*. 12(1):24-30.
49. *Goring, S.*, K. Weathers, W.K. Dodds, **P.A. Soranno**, *L. Sweet*, K.S. Cheruvilil, J. Kominoski, *J. Ruegg, A. Thorn, R. Utz*. 2014. Improving the culture of interdisciplinary collaboration in ecology by expanding the measures of success. *Frontiers in Ecology and the Environment*. 12(1):39-47.
48. Cheruvilil, K.S., **P.A. Soranno**, K.C. Weathers, P.C. Hanson, *S. Goring, C.T. Filstrup*, and *E.K. Read*. 2014. Creating and maintaining high-performing collaborative research teams: the importance of diversity and interpersonal skills. *Frontiers in Ecology and the Environment*. 12(1):31-38.
47. Ligmann-Zielinska, A., D.B. Kramer, K.S. Cheruvilil, and **P.A. Soranno**. 2014. Using uncertainty and sensitivity analyses in socioecological agent-based models to improve their analytical performance and policy relevance. *PlosONE* 9(10): e109779. Doi: 10.1371/journal.pone.0109779.
46. Cheruvilil, K.S., **P.A. Soranno**, M.T. Bremigan, and K.E. Webster. 2013. The multi-scaled drivers of ecosystem state: Quantifying the importance of the regional spatial scale. *Ecological Applications* 23:1603-1618.
45. Kramer, D.B., *T. Zhang*, K.S. Cheruvilil, A. Ligmann-Zielinska, **P.A. Soranno**. 2013. A multi-objective, return on investment analysis for freshwater conservation planning. *Ecosystems* . doi: 10.1007/s10021-013-9654-3
44. *Zhang, T.*, **P.A. Soranno**, K.S. Cheruvilil, D.B. Kramer, M.T. Bremigan, A. Ligmann-Zielinska. 2012. Evaluating the effects of upstream lakes and wetlands on lake phosphorus concentrations using a spatially-explicit model. *Landscape Ecology* 27:1015-1030. doi:10.1007/s10980-012-9762-z
43. *Fergus, C.E.*, **P.A. Soranno**, K.S. Cheruvilil and M.T. Bremigan. 2011. Multi-scale landscape and wetland drivers of lake total phosphorus and water color. *Limnology and Oceanography* 56(6):2127-2146. doi:10.4319/lo.2011.56.6.2127
42. *Martin, S.L.*, **P.A. Soranno**, M.T. Bremigan and K.S. Cheruvilil. 2011. Comparing hydrogeomorphic approaches to lake classification. *Environmental Management* 48:957-974. doi: 10.1007/s00267-011-9740-2.
41. Wagner, T., **P.A. Soranno**, K.E. Webster, and K.S. Cheruvilil. 2011. Landscape drivers of regional variation in the relationship between total phosphorus and chlorophyll. *Freshwater Biology* 56:1811-1824. doi:10.1111/j.1365-2427.2011.02621.x
40. **Soranno, P.A.**, T. Wagner, *S.L. Martin, C. McLean, L.N. Novitski, C.D. Provence*, and *A.R. Rober*. 2011. Quantifying regional reference conditions for freshwater ecosystem management: A comparison of approaches and future research needs. *Lake and Reservoir Management* 27(2):138-148. doi: 10.1080/07438141.2011.573614.
39. **Soranno, P.A.** 2010. Improving student-led discussions: transforming the discussion leader. *Journal of Natural Resources and Life Sciences Education*. 39: 84-91. doi:10.4195/jnrlse.2009.0019g
38. **Soranno, P.A.**, K.S. Cheruvilil, K.E. Webster, M.T. Bremigan, T. Wagner, and C.A. Stow. 2010. Using landscape limnology to classify freshwater ecosystems for multi-ecosystem management and conservation. *BioScience* 60(6):440-454.
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## Data and Computer Code in Online Repositories

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## Presentations

### Invited

- Soranno, P.A.**, K.S. Cheruvilil, and N.J. Smith. Developing a continental understanding of lakes at continental scales. Invited presentation to the NSF-funded workshop: A new paradigm in lake and reservoir research and management through global monitoring, modeling, and engaging and empowering people networks. Alexandria, VA. September 7, 2018.
- Soranno, P.A.** Macrosystems ecology: Developing a macroscale understanding of ecosystems. Invited presentation to the Great Lakes Seminar Series, Great Lakes Environmental Research Laboratory, Ann Arbor, MI. May 3, 2018.
- Soranno, P.A.** The top four practical questions related to the ethics of data sharing in ecology. Invited presentation to the Special Session: *Standing on the Shoulders of Clients: Evolving Cyberinfrastructure in the Ecological Sciences*, at the 102<sup>nd</sup> Annual Meeting of the Ecological Society of America, August 7, 2017.
- Soranno, P.A.** *Marine and freshwater science in the 21<sup>st</sup> century: Team-based, data-intensive, and open*. Invited presentation to the Eco-DAS (Ecological Dissertations in the Aquatic Sciences) XII. Honolulu, HI. October 25, 2016.
- Soranno, P.A.** *Ecology in the 21<sup>st</sup> century: Team-based, data-intensive, and open*. Invited Keynote Address to the 2016 KBS-LTER All Scientist Meeting. September 16, 2016.
- Soranno, P.A.** and K.S. Cheruvilil. Landscape limnology: bridging local and regional scales to understand freshwaters. Invited oral presentation to the special session: *Bridging local processes and large-scale patterns in aquatic biogeochemical cycles across landscapes*, at the Association for the Sciences of Limnology and Oceanography, Santa Fe, NM. June 2016.
- Soranno, P.A.** What can data-intensive, continental-scaled ecology contribute to the climate-food-energy-water nexus? Invited presentation to the Michigan State University's Fate of the Earth Symposium. East Lansing, MI. April 7, 2016.
- Soranno, P.A.** Landscape limnology: Developing a macrosystems ecology understanding of freshwaters from local to continental scales. Invited presentation to the *Group for Interuniversity Research in Limnology and Aquatic Environments*. Jouvence, Quebec. March 11, 2016.
- Soranno, P.A.** Macrosystems ecology: Understanding ecological pattern and process at continental scales. Invited seminar at the Zoology Department, Miami University of Ohio. September 11, 2014.
- Soranno, P.A.**\* Landscape limnology: Understanding freshwaters at regional to continental scales. Invited plenary to the Joint Aquatic Sciences Meeting (a combined meeting of the Association for Limnology and Oceanography, Society for Freshwater Sciences, and the Society of Wetland Scientists). May 18-23, 2014. Portland, OR. \***Plenary**
- Soranno, P.A.**\*. Using landscape limnology for extrapolating within and across regions. Invited presentation at the Center for Limnology, University of Wisconsin, Madison, WI. December 4, 2013. \***Kaiser Scholar of the Center for Limnology**
- Soranno, P.A.** Macrosystems ecology: understanding ecological pattern and process at continental scales. Invited presentation at the Zoology Department, University of Wisconsin. Madison, WI. December 3, 2013.
- Soranno, P.A.**, K.S. Cheruvilil, E.G. Bissell, M.T. Bremigan, J.A. Downing, C.E. Fergus, C. Filstrup, N. Lottig, E.N. Henry, E.H. Stanley, C.A. Stow, P.-N. Tan, T. Wagner, K.E. Webster. A conceptual framework for understanding multi-scaled cause-effect relationships between terrestrial and aquatic ecosystems. Invited presentation to the special session: *Terrestrial-aquatic linkages II: movement of nutrients and carbon*. Ecological Society of America 98th Annual Meeting. Minneapolis, MN. August 2013.
- Cheruvilil, K.S., **P.A. Soranno**, K.C. Weathers, P.C. Hanson, S. Goring, C.T. Filstrup, and E.K. Read. Creating and maintaining high-performing collaborative research teams: the importance of diversity and interpersonal skills. Invited presentation at the NSF-Macrosystems Biology PI Meeting, Washington, D.C. June 2013.
- Goring, S., K. Weathers, W.K. Dodds, **P.A. Soranno**, L. Sweet, K.S. Cheruvilil, J. Kominoski, J. Ruegg, A. Thorn, R. Utz. Improving the culture of interdisciplinary collaboration in ecology by expanding measures of success. Invited presentation at the NSF-Macrosystems Biology PI Meeting, Washington, D.C. June 2013.
- Soranno, P.A.** and co-authors. Macrosystems ecology: Understanding ecological pattern and process at continental scales. Invited presentation at the NSF-Macrosystems Biology PI meeting. NSF, Arlington, VA. June 2013.
- Soranno, P.A.** J. Ruegg, C. Gries. Completing the data life cycle: information management in macrosystems ecology research. Invited presentation at the NSF-Macrosystems Biology PI meeting. NSF, Arlington, VA. June 2013.
- Soranno, P.A.** Understanding today's water problems requires both fine- and broad-scaled perspectives. Presentation to the *Interdisciplinary Research Forum on Water* sponsored by MSU Office of the Vice President for Research and Graduate Studies. April 2013.
- Soranno, P.A.** Macrosystems ecology: understanding ecological pattern and process at continental scales. Ecology, Evolutionary Biology and Behavior Seminar Series. Michigan State University. March 2013.

- Fergus, C.E., P.A. Soranno, K.S. Chervulil, M.T. Bremigan, K.E. Webster.* A landscape limnology framework to understand responses of lake ecosystems to environmental change across broad scales. Invited presentation to the Special Session: *Freshwater Systems in a Changing World: A New Frontier*, at the American Geophysical Union - Annual 45th Annual Fall Meeting. San Francisco, CA. December 2012.
- Soranno, P.A.** Landscape Limnology: Vision for today and the future. Invited plenary address at the North American Lake Management Society Annual Symposium. Madison, WI. November 2012. *\*Plenary*
- Soranno, P.A.** What can we learn from studying freshwater landscapes? Invited plenary speaker at the Kellogg Biological Station GK-12 Bioenergy Sustainability Project Workshop. Kellogg Biological Station, Michigan. December 2011.
- Soranno, P.A.** Freshwater landscapes: consideration of composition, configuration and scale in the Session – Sentinels from the Future. Invited presentation at the 2011 Gordon Research Conference: Catchments as Sentinels of Global Change. Bates College, Lewiston, ME. July 2011.
- Soranno, P.A.** Developing lake-specific nutrient criteria to meet the mandate of the Clean Water Act. Invited presentation to the Michigan Tribal Environmental Group, Gun Lake Tribe, Shelbyville, MI. May 2009.
- Bremigan, M.T., **P.A. Soranno**, M. Gonzalez, B. Bunnell, K. Arend, W. Renwick, R. Stein, and M. Vanni, K.S. Cheruvilil, K. Webster, C.A. Stow, and T. Wagner. Linking Foodweb and Landscape Models: Hydrogeomorphic Mediation of Land-use Effects on Reservoirs. Invited presentation to Special Symposium on *Reservoir Ecology*, at the 69th Midwest Fisheries and Wildlife Conference, Columbus OH, December 2008.
- Soranno, P.A.** Limnology 101. Presentation to the Michigan Water Resources Advisory Council. Grand Rapids, MI. December 2008.
- Soranno, P.A.,** M.T. Bremigan, K.S. Cheruvilil, and K.E. Webster. Databases and related research from the MSU landscape limnology research group. Presentation to the Michigan Water Resources Advisory Council Subcommittee on Inland Lakes and Wetlands. Lansing, MI. November 2008.
- Bremigan, M.T., K.S. Cheruvilil, **P.A. Soranno**, K.E. Webster, *B. Alger*, and *T. Wagner*. 2008. Landscape scale management for lakes: connecting lake landscapes to water chemistry and fishes. National conference sponsored by US EPA and North American Lake Management Society: *Enhancing the States' Lake Management Programs - Building Partnerships for Improved Fisheries and Lake Water Quality*. Chicago, IL. April 2008
- Soranno, P.A.,** M.T. Bremigan and K.S. Cheruvilil. Using a landscape perspective for lake science, management and conservation: Results to date and future directions. Invited presentation to the *Midwest Glacial Lakes Partnership Session* at the Midwest Fish and Wildlife Conference. Madison, WI. December 2007.
- Soranno, P.A.** A hydrogeomorphic lake landscape context paradigm to explain lake variation at multiple spatial scales. Invited research seminar. Central Michigan University. Mount Pleasant, MI. November 2007.
- Soranno, P.A.,** K. Spence Cheruvilil, R.J. Stevenson, S. Rollins, S.W. Holden, S. Heaton, and E.K. Torng. Developing lake-specific nutrient criteria: integrating predictive modeling with biological response gradients. Invited plenary address to the New England Association of Environmental Biologists Annual Conference. West Dover, Vermont. March 2007.
- Cheruvilil, K.S., **P.A. Soranno**, M.T. Bremigan, K.E. Webster, *T. Wagner* and *S.L. Martin*. The roles of regionalization and spatial scale for national lake classification and assessment. EPA Region 5 -- 5th Annual Surface Water Monitoring and Standards (SWiMS) Meeting. Chicago, IL. February 2006.
- Cheruvilil, K.S., T. Wagner, **P.A. Soranno**, and M.T. Bremigan. 2005. The role of regionalization for lake assessment and monitoring: how do we predict lake physico-chemical variables from landscape features at multiple spatial scales. Invited presentation to the Department of Biology, University of Notre Dame, South Bend, IN.
- Soranno, P.A.** Developing a landscape-context paradigm for lakes: Why (and how) does the landscape matter? Michigan State University Department of Fisheries and Wildlife Graduate Student Organization Seminar Series. October 28, 2005.
- Soranno, P.A.** The role of landscape context on lake chemistry and biology. Invited presentation to the Grand Valley State University Annis Water Resources Institute. March 2003.
- Bremigan, M.T. and **P.A. Soranno**. 2001. Integrating fisheries and limnological perspectives to evaluate indirect effects of Sonar herbicide control of Eurasian watermilfoil on Michigan lakes. Invited oral presentation to Michigan Chapter of the American Fisheries Society Meeting (Session: Bridging the Gap between Limnology and Fisheries). Higgins Lake, Michigan. March 2001.
- Soranno, P.A.** 2001. Landscape ecology of lakes: Introduction and primer. Invited oral presentation to the Society of Canadian Limnologists (Special Symposium: Landscape Ecology of Aquatic Ecosystems, opening presentation), Toronto, Canada. January 2001.
- Seelbach, Paul W., M.J. Wiley, **P.A. Soranno**, M.T. Bremigan, and J. Higgins. 2000. Aquatic conservation planning: predicting ecological reference conditions for specific waters. Invited oral presentation to the Conservation Biology Annual Meeting. Montana. June 2000.
- Soranno, P.A.** 1997. Phosphorus cycling in the Lake Mendota ecosystem: Internal versus external nutrient supply.

Dissertations Initiative for the Advancement of Limnology and Oceanography - II Conference, Bermuda Biological Station for Research, Bermuda. Sponsored by European Commission, US-NASA, US-NOAA, US-NSF, US-ONR. October 1997.

- Soranno, P.A.** 1997. Internal and external phosphorus supply to eutrophic lakes: Implications for ecosystems and algal processes Miami University of Ohio, Oxford, Ohio. April 1997.
- Soranno, P.A.** 1997. Internal and external phosphorus supply to eutrophic lakes: Implications for ecosystems and algal processes. Wright State University, Dayton, Ohio. April 1997.
- Soranno, P.A.** 1997. Incorporating spatial pattern in the modeling of phosphorus loads to surface waters. American Fisheries Society - Michigan Chapter Meeting, East Lansing, Michigan. March 1997.
- Soranno, P.A.,** S.R. Carpenter, R.C. Lathrop, J.F. Kitchell, and T.B. Johnson. 1994. Interannual climate variability and its effects on Lake Mendota nutrients and plankton. Madison Hydrology Club, Madison, WI. February 1994.
- Soranno, P.A.** 1993. The impact of land use pattern on the transport of phosphorus from land to water in the Lake Mendota watershed. Mathematical Sciences Symposium: Spatial Processes in Biology. University of Wisconsin, Madison, WI. November 1993.

### ***Contributed Research Presentations***

- Soranno, P.A.,** T. Wagner, *S.M. Collins*, J.-F. Lapierre, N.R. Lottig, S.K. Oliver. Spatial variation exceeds temporal variation in lake ecosystem properties at macroscales. Oral presentation to the Association for the Sciences of Limnology and Oceanography, Victoria, BC. June 2018.
- Stachelek, J.* and **P.A. Soranno.** Does lake and stream connectivity control phosphorus retention in lakes? Oral presentation to the Association for the Sciences of Limnology and Oceanography, Victoria, BC. June 2018.
- McCullough, I.,* K.S. Cheruvilil, *S.M. Collins*, and **P.A. Soranno.** Geographic patterns of the climate sensitivity of lakes. Oral presentation to the Association for the Sciences of Limnology and Oceanography, Victoria, BC. June 2018.
- Filstrup, C.T., Lapierre, J.-F., S.K. Oliver, **P.A. Soranno**, T. Wagner, J.A. Downing. Spatiotemporal patterns in extreme lake chlorophyll concentrations at the sub-continental scale. Oral presentation to the Association for the Sciences of Limnology and Oceanography, Victoria, BC. June 2018.
- Elliott, K.C., I.H. Settles, *S.T. Brassel*, K.S. Cheruvilil, G.M. Montgomery, **P.A. Soranno.** 2018. Interdisciplinary Scholarship to Promote Inclusivity in Science: A Case Study of Credit and Authorship Oral presentation to The Consortium for Socially Relevant Philosophy of/in Science and Engineering (SRPoiSE) Atlanta, GA. June 2018.
- Fergus, C.E.,* J.F. Lapierre, *S.K. Oliver*, *N.K. Skaff*, K.S. Cheruvilil, **P.A. Soranno**, K. Webster, *C. Scott.* The freshwater landscape: lake, wetland, and stream abundance and connectivity at macroscales. Oral presentation to the American Water Resources Spring Specialty Conference, Snowbird, UT. May 2017.
- Stanley, E.H., K.E. Webster, **P.A. Soranno**, *S.K. Oliver*, N.R. Lottig, *S.M. Collins*, and K.S. Cheruvilil. 2017. Data accumulation patterns for lakes in northeastern and Midwestern U.S. states. Association for the Sciences of Limnology and Oceanography Aquatic Sciences Meeting, Honolulu, HI. February 2017.
- Lottig, N.R., P.-N. Tan, T. Wagner, K.S. Cheruvilil, *C.E. Scott*, **P.A. Soranno**, E.H. Stanley, C.A. Stow, *S. Yuan.* Long-term patterns and drivers of water clarity at sub-continental spatial scales. Oral presentation to the Association for the Sciences of Limnology and Oceanography, Santa Fe, NM. June 2016.
- Lapierre, J.-F., S.M. Collins, P.A. Soranno*, K.S. Cheruvilil, P.-N. Tan, T. Wagner, *N. Skaff, C.E. Fergus*, D. Seekell. Aligning spatial scales improves understanding of relationships between climate, landscape and limnological properties. Oral presentation to the Association for the Sciences of Limnology and Oceanography, Santa Fe, NM. June 2016.
- Fergus, C.E., J.-F., Lapierre, S. Oliver, N. Skaff, C.E. Scott,* K.S. Cheruvilil, **P.A. Soranno**, and K.E. Webster. Patterns of lake, wetland, and stream connectivity at macroscales. Oral presentation to the Association for the Sciences of Limnology and Oceanography, Santa Fe, NM. June 2016.
- Oliver, S., S.M. Collins,* E.H. Stanley, **P.A. Soranno**, K.S. Cheruvilil, *J.-F. Lapierre*, N.R. Lottig, T. Wagner. Recent changes in lake N & P concentrations: Where are we now? Oral presentation to the Association for the Sciences of Limnology and Oceanography, Santa Fe, NM. June 2016.
- Collins, S.M., S.K. Oliver, J.F. Lapierre,* E.H. Stanley, J.R. Jones, T. Wagner, and **P.A. Soranno.** What drives lake nitrogen and phosphorus concentrations at broad spatial scales, and why is it so hard to explain nutrient ratios? Oral presentation to the Association for the Sciences of Limnology and Oceanography, Santa Fe, NM. June 2016.

- Elliott, K.C., I. Settles, S. Brassel, G.M. Montgomery, K.S. Cheruvilil, **P.A. Soranno**. The dark side of “inclusivity”: Problematising authorship practices in interdisciplinary teams. Oral presentation to the 2016 Science of Team Science Conference, Phoenix, AZ. May 2016.
- Collins, S.M., S.K. Oliver, J.-F. Lapierre, E.H. Stanley, K.S. Cheruvilil, **P.A. Soranno**. What drives lake nutrients at continental scales, and why is it so hard to predict nutrient ratios? Oral Presentation to the American Geophysical Union Fall Meeting, San Francisco, CA. December 2015.
- Soranno, P.A.**, K.S. Cheruvilil, K.C. Elliott, D. Higgins, G.M. Montgomery, S. Nicholson, C.E. Scott, P.-N. Tan, E. Tans. Evidence for the historical development of and recent trends in data-intensive ecology. Poster presentation at The Ecological Society of America Annual Meeting: Ecological Science at the Frontier, celebrating the ESA Centennial, Baltimore, MD August 2015.
- Cheruvilil, K.S., S. Yuan, S.M. Collins, C.E. Fergus, C.T. Filstrup, E.N. Henry, J.-F. Lapierre, C.E. Scott, **P.A. Soranno**, P.-N. Tan, T. Wagner, K.E. Webster. Including the freshwater landscape in a multi-themed regionalization system to capture macroscale patterns. Oral presentation at The Ecological Society of America Annual Meeting: Ecological Science at the Frontier, celebrating the ESA Centennial, Baltimore, MD August 2015.
- Lapierre, J.-F., S.M. Collins, C.E. Scott, K.S. Cheruvilil, P.-N. Tan, M.T. Bremigan, T. Wagner, **P.A. Soranno**. The role of spatial structure in determining the strength of the relationships among climate, landscape and limnological properties. Oral presentation at The Ecological Society of America Annual Meeting: Ecological Science at the Frontier, celebrating the ESA Centennial, Baltimore, MD August 2015.
- Collins, S.M., S.K. Oliver, J.-F. Lapierre, E.H. Stanley, and **P.A. Soranno**. 2015. Macroscale patterns in lake N:P stoichiometry: Influence of landscape drivers at multiple scales. Conference on Biological Stoichiometry, Peterborough, Ontario. June 2015.
- Lapierre, J.-F., K.S. Cheruvilil, S.M. Collins, C.E. Fergus, C.T. Filstrup, D. Seekell, **P.A. Soranno**. Climate and land-use gradients drive spatially coherent CO<sub>2</sub> driver-response relationships across U.S. lakes. Oral Presentation to the 25th Joint Assembly of the AGC-AGU-AMC-UGC, Montreal, Quebec, CA. May 2015.
- Soranno, P.A.**, K.S. Cheruvilil, K. Elliott, and G. Montgomery. Exploratory Analysis and Big Data. Oral presentation to The Consortium for Socially Relevant Philosophy of/in Science and Engineering (SRPoiSE) Detroit, MI. March 2015.
- Elliott, K.E., I. Settles, G. Montgomery, **P.A. Soranno** and K.S. Cheruvilil. STEP (Science Teams’ Effective Practices) Oral presentation to The Consortium for Socially Relevant Philosophy of/in Science and Engineering (SRPoiSE) Detroit, MI. March 2015.
- Lapierre, J.F., Z.E. Taranu, K.S. Cheruvilil, **P. A. Soranno**. LAGOS-Québec: Bâtir un réseau collaboratif pour l’étude de la qualité de l’eau des lacs [LAGOS-Quebec: Building a collaborative network for studying lake water quality]. Poster presentation at the 25th Annual GRIL Symposium Saint-Hippolyte, Québec. March 2015.
- Soranno, P.A.** and K.S. Cheruvilil. Creating integrated geospatial-temporal databases for broad-scale limnology. Oral Presentation at the Global Lakes Ecological Observation Network All-Hands Meeting. Orford, Canada. October, 2014.
- Fergus, C.E., N. Skaff, S.K. Oliver, C.E. Scott, **P.A. Soranno**, K.S. Cheruvilil, K.E. Webster, M. Tate Bremigan. Freshwater connectivity (FW) of lakes, streams, and wetlands at macroscales. Poster Presentation at the Global Lakes Ecological Observation Network All-Hands Meeting. Orford, Canada. October, 2014.
- Scott, C.E., C.E. Fergus, N., Skaff, N.R. Lottig, C.T. Filstrup, T. Wagner, **P.A. Soranno**, K.S. Cheruvilil. The effects of climate change on lake water quality at macroscales. Oral presentation at the Joint Aquatic Sciences Meeting. Portland, OR. May 2014.
- Fergus, C.E., S.K. Oliver, N. Skaff, C.E. Scott, **P.A. Soranno**, K.S. Cheruvilil, K.E. Webster, M. Tate Bremigan. Measuring patterns of lake, stream, and wetland connectivity at macroscales. Oral presentation at the Joint Aquatic Sciences Meeting. Portland, OR. May 2014.
- Lottig, N.R., T. Wagner, P.-N. Tan, S. Yuan, C.E. Scott, C.A. Stow, **P.A. Soranno**, K.S. Cheruvilil, E.H. Stanley. Taxonomy of change: Using cluster analysis to identify temporal-patterns in limnological data. Oral presentation at the Joint Aquatic Sciences Meeting. Portland, OR. May 2014.
- Oliver, S.K., E.H. Stanley, K.S. Cheruvilil, J.A. Downing, C.E. Fergus, **P.A. Soranno**, T. Wagner, K.E. Webster, and L. Winslow. Prediction and patterns of lake depth across a 17-state region in the U.S. Oral presentation at the Joint Aquatic Sciences Meeting. Portland, OR. May 2014.
- Christel, S.T., **P.A. Soranno**, E.G. Bissell, K.S. Cheruvilil, S.M. Collins, C.E. Fergus, C.T. Filstrup, J.-F. Lapierre, N.R. Lottig, S.K. Oliver, C.E. Scott, N.J. Smith, S. Stopyak, S. Yuan, M. Tate Bremigan, J.A. Downing, C. Gries, E.N. Henry, N. Skaff, E.H. Stanley, C.A. Stow, P.N. Tan, T. Wagner, K.E. Webster. Lessons from LAGOS: The triumphs and challenges of creating an integrated multi-scaled, multi-themed lake nutrient geodatabase at subcontinental scales. Oral presentation at the Joint Aquatic Sciences Meeting. Portland, OR. May 2014.

- Cheruvilil K.S., **P.A. Soranno**, E. Bissell, M.T. Bremigan, J.A. Downing, *C.E. Fergus*, *C.T. Filstrup*, N.R. Lottig, *E.N. Henry*, E.H. Stanley, C.A. Stow, P.-N. Tan, T. Wagner and K.E. Webster. A conceptual framework for understanding multi-scaled cause-effect relationships between terrestrial and aquatic ecosystems. Oral presentation at the Symposium for European Freshwater Sciences, Munster, Germany. July 2013.
- Soranno, P.A.**, K.S. Cheruvilil, J.A. Downing, E.H. Stanley, N.R. Lottig, P.-N. Tan, T. Wagner, C.A. Stow, M.T. Bremigan, K.E. Webster, *C.T. Filstrup*, *E.N. Henry*, *C.E. Fergus*, E. Bissell. The effect of cross-scale interactions (CSIs) on freshwater ecosystem state across space and time. Poster presentation at the NSF-Macrosystems Biology PI Meeting, Washington, D.C. June 2013.
- Filstrup, C.T.*, T. Wagner, **P.A. Soranno**, E.H. Stanley, C.A. Stow, K.E. Webster, and J.A. Downing. 2013. Regional variability in non-linear chlorophyll response to total phosphorus enrichment in lakes. Oral presentation at the Association of Limnology and Oceanography Aquatic Sciences Meeting. New Orleans, LA. February 2013.
- Stanley, E.H., N.R. Lottig, **P.A. Soranno** and K.S. Cheruvilil. Long-term datasets: opportunities and challenges for lake science and management. Oral presentation at the Association of Limnology and Oceanography Aquatic Sciences Meeting. New Orleans, LA. February 2013.
- Ligmann-Zielinska, A., D.B. Kramer, K.S. Cheruvilil, **P.A. Soranno**. Sensitivity analysis in agent-based models of socio-ecological systems: an example in agricultural land conservation for lake water quality improvement. Oral presentation at the American Geophysical Union - Annual 45th Annual Fall Meeting. San Francisco, CA. December 2012.
- Cheruvilil, K.S., D.B. Kramer, A. Ligmann-Zielinska, **P.A. Soranno**. Evaluating alternative strategies for investments in freshwater conservation. Oral presentation at the American Geophysical Union - Annual 45th Annual Fall Meeting. San Francisco, CA. December 2012.
- Ligmann-Zielinska A., *Ling C.*, Kramer D.B., Cheruvilil K.S., **Soranno P.A.**, Bremigan M.T. How simple is too simple? Using Sensitivity Simulation for Factor Reduction in Agent-Based Modeling of Agricultural Land Conservation. RGS-IBG Annual International Conference, Edinburgh UK. 2012.
- Fergus, C.E.*, A.O. Finley, **P.A. Soranno**. Accounting for spatial dependence among lake water chemistry variables across geographic regions. Oral presentation at the Association for Limnology and Oceanography Aquatic Sciences Meeting. Lake Biwa, Otsu Japan. July 2012.
- Filstrup, C.T.*, **P.A. Soranno**, E.H. Stanley, C.A. Stow, T. Wagner, K.E. Webster, and J.A. Downing. Chlorophyll a response to total phosphorus enrichment in lakes differs by spatial scale and regions: implications for developing water quality criteria at the state level. Oral presentation at the North American Lake Management Society Annual Symposium. Madison, WI. November 2012.
- Stanley, E.H., **P.A. Soranno**, N.R. Lottig, S. Hampton. Long-term data sets: opportunities and challenges for lake science and management. Oral presentation at the North American Lake Management Society Annual Symposium. Madison, WI. November 2012.
- Fergus, C.E.*, **P.A. Soranno**, K.S. Cheruvilil, M.T. Bremigan. Incorporating regional landscape information in local lake management decisions. Oral presentation at the North American Lake Management Society Annual Symposium. Madison, WI. November 2012.
- Zhang, T.*, **P.A. Soranno**, K.S. Cheruvilil, D.B. Kramer, A. Ligmann-Zielinska, M.T. Bremigan. 2011. The effect of upstream lakes and wetlands in modeling phosphorus concentrations in lakes. Oral Presentation at the 2011 US-International Association for Landscape Ecology Symposium. April 2011.
- Soranno, P.A.**, *K.L. Droscha*, K.E. Webster, K.S. Cheruvilil, T. Wagner, M.T. Bremigan. 2011. The optimal spatial extent for quantifying catchment agriculture on lake nutrients using simple metrics. Oral Presentation at the 2011 US-International Association for Landscape Ecology Symposium. Portland, Oregon. April 2011.
- Fergus, C.E.*, **P.A. Soranno**, K.S. Cheruvilil, and M.T. Bremigan. 2011. The effects of land use disturbance at local and regional scales on wetland relationships with lake total phosphorus and water color. Oral Presentation at the 2011 US-International Association for Landscape Ecology Symposium. Portland, Oregon. April 2011.
- Soranno, P.A.**, K.S. Cheruvilil, M.T. Bremigan, K.E. Webster, *C.E. Fergus*. 2010. Landscape limnology: Defining the freshwater landscape. Oral presentation at the Joint Meeting of the American Society of Limnology and Oceanography and the North American Benthological Society. Santa Fe, NM. June 2010.
- Cheruvilil, K.S., **P.A. Soranno**, M.T. Bremigan, K.E. Webster, T. Wagner, and C.A. Stow. 2010. Landscape: Integrating freshwater, terrestrial, and human landscapes for ecological understanding and natural resource management and conservation. Oral presentation at the Joint Meeting of the American Society of Limnology and Oceanography and the North American Benthological Society. Santa Fe, NM. June 2010.
- Fergus, C.E.*, **P.A. Soranno**, K.S. Cheruvilil, and M.T. Bremigan. 2010. The effect of land use disturbance on wetland relationships with lake TP and water color. Oral presentation at the Joint Meeting of the American Society of Limnology

- and Oceanography and the North American Benthological Society. Santa Fe, NM. June 2010. \* Award: Outstanding Student Presentation.
- Bremigan, M.T., *B.M. Alger*, K.S. Cheruvilil, **P.A. Soranno**, and K.E. Webster. 2010. Quantifying the influence of terrestrial, freshwater, and human landscapes on fish assemblages in 360 north-temperate lakes. Oral presentation at the Joint Meeting of the American Society of Limnology and Oceanography and the North American Benthological Society. Santa Fe, NM. June 2010.
- Droscha, K.L.*, and **P.A. Soranno**. 2010. The effect of agricultural type and spatial pattern on lake nutrients. Poster presentation at the Joint Meeting of the American Society of Limnology and Oceanography and the North American Benthological Society. Santa Fe, NM. June 2010.
- Wagner, T., K.S. Cheruvilil, **P.A. Soranno** and K.E. Webster. Modeling regional parameter variation in the total phosphorus-chlorophyll a relationship using a hierarchical Bayesian approach. Oral presentation at the North American Lake Management Society Annual Meeting. Hartford, CT. October 2009.
- Cheruvilil, K.S., **P.A. Soranno**, M.T. Bremigan, K.E. Webster, T. Wagner and C.A. Stow. 2009. Freshwater ecosystem classification for landscape-scale management. Oral presentation at the North American Benthological Society Meeting. Grand Rapids, MI. May 2009.
- Wagner, T., **P.A. Soranno**, M.T. Bremigan, K.S. Cheruvilil, K.E. Webster, and C.A. Stow. 2009. Freshwater ecosystem classification for landscape-scale management. Oral presentation at the 65th Northeastern Association of Fish and Wildlife Conference. Lancaster, PA. April 2009.
- Fergus, C.E.*, **P.A. Soranno**, P. Garrison and M.T. Bremigan. 2009. Wetland effects on lake phosphorus: does location matter? Oral presentation at the U.S. International Association for Landscape Ecology Annual Meeting. Snowbird, UT. April 2009.
- Martin, S.L.*, **P.A. Soranno**, M.T. Bremigan, and K.S. Cheruvilil. 2008. Lake classifications: comparison of approaches and implications for lake management. Fisheries Division, Michigan Department of Natural Resources, Annual Meeting of Research Section. Higgins Lake, MI. October 2008.
- Soranno, P.A.**, K.S. Cheruvilil, K.E. Webster, M.T. Bremigan, and T. Wagner. 2008. Does landscape position determine the optimal spatial scale defining the effects of land use on lake nutrients? Oral presentation at the Ecological Society of America Annual Meeting. Milwaukee, WI. August 2008.
- Cheruvilil, K.S., **P.A. Soranno**, M.T. Bremigan, and K.E. Webster. 2008. Quantifying the role of geographic regionalizations for national lake classification and assessment. Oral presentation at the Ecological Society of America Annual Meeting. Milwaukee, WI. August 2008.
- Alger, B.M.*, M.T. Bremigan, K.S. Cheruvilil, **P.A. Soranno**, and K.E. Webster. 2008. Hydrogeomorphic and anthropogenic disturbance gradients in lakes: How have fish assemblages been altered? Oral presentation at the Ecological Society of America Annual Meeting. Milwaukee, WI. August 2008.
- Fergus, C.E.*, **P.A. Soranno**, P. Garrison, and M.T. Bremigan. 2008. The influence of wetland scale and connectivity on lake phosphorus. Poster presentation at the Ecological Society of America Annual Meeting, Milwaukee, WI. August 2008.
- Bremigan, M.T., K.S. Cheruvilil, **P.A. Soranno**, K.E. Webster, B. Alger, and T. Wagner. 2008. Landscape scale management for lakes: connecting lake landscapes to water chemistry and fishes. National conference sponsored by US EPA and North American Lake Management Society: Enhancing the States' Lake Management Programs - Building Partnerships for Improved Fisheries and Lake Water Quality. Chicago, IL. April 2008.
- Soranno, P.A.**, K.E. Webster, M.T. Bremigan, and K.S. Cheruvilil. 2007. A hydrogeomorphic lake landscape context paradigm to explain lake variation at multiple spatial scales. Oral presentation at the 30th Congress of the International Association of Theoretical and Applied Limnology. Montreal, CA. August 2007.
- Webster, K.E., **P.A. Soranno**, M.T. Bremigan, K.S. Cheruvilil, T. Asplund, L.C. Bacon, J. Connor, J.A. Downing, P.D. Vaux. 2007. Applying the nutrient-color trophic paradigm to 1646 north temperate lakes. Oral presentation at the 30th Congress of the International Association of Theoretical and Applied Limnology. Montreal, CA. August 2007.
- Martin, S.L.*, **P.A. Soranno**, K.S. Cheruvilil, M.T. Bremigan. 2007. A comparison of landscape-based lake classifications for understanding variation in lake water chemistry. Poster presentation at the MSU Graduate Student Organization Research Symposium. East Lansing, MI. February 2007. \* Award: Best Student Poster.
- Soranno, P.A.**, K.S. Cheruvilil, R.J. Stevenson, *S. Rollins*, S.W. Holden, S. Heaton, and E.K. Torng. 2006. Developing lake-specific nutrient criteria: integrating predictive modeling with biological response gradients. Oral presentation at the North American Lake Management Society Annual Meeting. Indianapolis, IN. November 2006.
- Bremigan, M.T., U. Beier, K. Holmgren, S. Pakkasmaa, K.S. Cheruvilil, **P.A. Soranno**, and T. Wagner. 2006. Quantifying lake – landscape linkages: comparing landscape regionalizations for capturing water chemistry and fish assemblage variation among swedish lakes. Oral presentation at the American Society of Limnology and Oceanography Summer Aquatic Sciences Meeting 2006. Victoria, British Columbia, June 2006.

- Martin, S.L., P.A. Soranno, K.S. Cheruvilil and M.T. Bremigan.* 2006. A comparison of landscape-based lake classifications for understanding variation in lake water chemistry and clarity. Oral presentation at the American Society of Limnology and Oceanography Summer Aquatic Sciences Meeting. Victoria, British Columbia, June 2006.
- Cheruvilil, K.S., P.A. Soranno, M.T. Bremigan, K.E. Webster.* 2006. The roles of regionalization and spatial scale for national lake classification and assessment. Oral presentation at the American Society of Limnology and Oceanography Summer Aquatic Sciences Meeting. Victoria, British Columbia, June 2006.
- Webster, K.E., P.A. Soranno, M.T. Bremigan, K.S. Cheruvilil, T. Asplund, L.C. Bacon, K.P. Bell, J. Connor, J.A. Downing, W.H. Renwick, and P.D. Vaux.* 2006. Landscape patterns in the trophic status of north-temperate lakes (USA): relationships with anthropogenic and hydrogeomorphic features. Oral presentation at the American Society of Limnology and Oceanography Summer Aquatic Sciences Meeting. Victoria, British Columbia, June 2006.
- Bremigan, M.T., K.S. Cheruvilil, P.A. Soranno, K.E. Webster, and T. Wagner.* 2006. A Hydrogeomorphic Lake Classification System for Lake Assessment . Oral presentation at the EPA workshop for the National Lake Assessment Project. Chicago, IL. April 2006.
- Bremigan, M.T., P.A. Soranno, K.S. Cheruvilil, and T. Wagner.* 2005. Can Hydrogeomorphic Features Predict Water Chemistry and Fish Growth in Michigan, US Lakes?: Implications for Lake Classification and Monitoring. Poster presentation at the Fifteenth annual workshop of the Nordic Freshwater Fish Group, Alvkarleby, Sweden. October 2005.
- Soranno, P. A., Cheruvilil, K.S., Bremigan, M.T.* 2005. Relationships between land use and lake productivity in upper Midwest lakes. Oral presentation to the North American Lake Management Society 25th Annual Meeting. Madison, WI. November 2005.
- Cheruvilil, K.S. P.A. Soranno, M.T. Bremigan, T. Wagner and S.L. Martin.* 2005. Grouping lakes for water quality assessment and monitoring: The role of regionalization. Oral presentation at the North American Lake Management Society 25th Annual Meeting. Madison, WI. November 2005.
- Benson, B. J., O. P. Jensen, J. J. Magnuson, K. M. Stewart, V. Card, M.N. Futter, and P.A. Soranno.* 2005. Spatial patterns of trends in ice breakup dates for lakes across the Great Lakes Region in recent years. Oral presentation at the Ecological Society of America Annual Summer Meeting. Montreal, Canada. August 2005.
- Cheruvilil, K. S., T. Wagner, P.A. Soranno, M.T. Bremigan, and J.E. Breck.* 2005. Predicting lake physico-chemical variables from landscape features at multiple spatial scales. Oral presentation at the American Society of Limnology and Oceanography Aquatic Sciences Meeting, Salt Lake City, UT. February 2005.
- Soranno, P. A., K.S. Cheruvilil, and M.T. Bremigan.* 2005. Relationships between land use and lake nutrients in upper midwest lakes and the effect of landscape context. Oral presentation at the American Society of Limnology and Oceanography Aquatic Sciences Meeting, Salt Lake City, UT. February 2005.
- Wagner, T., M.T. Bremigan, K. Spence Cheruvilil, P.A. Soranno, N.A. Nate, and J.E. Breck.* 2005. Comparing multi-scale predictors of fish growth: towards a regional framework for lake management. Oral presentation at the American Society of Limnology and Oceanography Aquatic Sciences Meeting, Salt Lake City, UT. February 2005.
- Martin, S. L., and P.A. Soranno.* 2005. Lake landscape position: relationships to hydrologic connectivity and landscape features. Oral presentation at the American Society of Limnology and Oceanography Aquatic Sciences Meeting, Salt Lake City, UT. February 2005.
- Wagner, T. M.T. Bremigan, K.S. Cheruvilil, P.A. Soranno, N.A. Nate, and J.E. Breck.* 2004. Comparing multi-scale predictors of fish growth: towards a regional framework for fish management. Oral presentation at the Midwest Fish and Wildlife Conference. Indianapolis, IN. December 2004.
- Bremigan, M.T., P.A. Soranno, J.A. Chiotti, M.J. Gonzalez, W.H. Renwick, R.A. Stein and M.J. Vanni.* 2004. Do landscape and local basin properties mediate the effects of land use change on reservoir nutrient concentrations and foodweb dynamics? Oral presentation at the Ecological Society of America 89th Annual Meeting, Portland, OR, August 2004.
- Bremigan, M.T., P.A. Soranno, M.J. Gonzalez, W.H. Renwick, R.A. Stein and M.J. Vanni.* 2004. Reservoir landscape features and land use: relations to water chemistry and gizzard shad population demographics. Oral presentation at the American Fisheries Society - 134th Annual Meeting. Madison, WI. August 2004.
- Cheruvilil, K.S., T. Wagner, P.A. Soranno and M.T. Bremigan.* 2004. Controls of lake water chemistry and clarity at local and regional spatial scales. Oral presentation at the Ecological Society of America 89th Annual Meeting, Portland, OR, August 2004.
- Martin, S.L. and P.A. Soranno.* 2004. The role of hydrologic connectivity in measuring lake landscape position. Oral presentation at the Ecological Society of America 89th Annual Meeting. Portland, OR. August 2004.
- Martin, S.L. and P.A. Soranno.* 2004. The role of hydrologic connectivity in measuring lake landscape position. Oral presentation at the Midwest Ecology and Evolution Conference. University of Notre Dame, Notre Dame, IN. March 2004.



- Nate, N., M.T. Bremigan, J. Breck and **P.A. Soranno** . 2004. Evaluation of a lake classification system for describing variation in fish growth in Michigan and Wisconsin lakes. Oral presentation at the American Fisheries Society - 134<sup>th</sup> Annual Meeting. Madison, WI. August 2004.
- Webster, K.E., **P.A. Soranno**, K.L. Ness and R.J. Bouchard. 2003. Lake littoral zones and shoreline development: scientific and social challenges to maintaining the ecological integrity of lakes. Oral presentation at the North American Lake Management Society Meeting, Mashantucket, CT. November 2003.
- Cherovelil, K.S., N. Nate, P.A. Soranno* and M.T. Bremigan. 2003. A field-test of the unimodal relationship between fish growth and macrophyte cover in lakes. Oral presentation at the Ecological Society of America Annual Meeting. Savannah, GA. August 2003.
- Nelson, S.A.C., K.S. Cherovelil, P.A. Soranno*. 2003. Remote sensing of freshwater macrophytes and the influence of lake characteristics. Oral presentation at the Society of Wetland Scientists 24<sup>th</sup> Annual Meeting. New Orleans, LA. June 2003.
- Bruhn, L., P.A. Soranno* and J. Bartholic. 2002. Water quality trends of Michigan inland lakes and their relationship to ecoregions:1974-2001. Oral presentation at the North American Lake Management Society Meeting, Anchorage, AK. October 30-November 2002.
- Nelson, S.A.C., P.A. Soranno, K.S. Cherovelil, S.A. Batzli, D.L. Skole*. 2002. Remote sensing of inland lake water clarity in Michigan lakes. Oral presentation at the Ecological Society of America. Tuscon, AZ. August 2002.
- Soranno, P.A.**, M.T. Bremigan, *K.S. Cherovelil, S.A.C. Nelson* and *S.E. Walsh*. 2002. Understanding the relationships between land-use and aquatic ecosystems. Land Use Poster Forum: Research, teaching and outreach programs in land use at Michigan State University. Michigan State University, East Lansing, MI. February 2002.
- Soranno, P.A.**, M.T. Bremigan, *K. S. Cherovelil, S.M. Hanson, K.L. Rogers, R.D. Valley* and J.D. Madsen. 2001. The role of macrophytes in mediating pelagic and littoral zone foodweb interactions: implications for shallow lake management. Oral paper presented at the North American Lake Management Society Annual Meeting, Madison, Wisconsin. November 2001.
- Soranno, P.A.**, M.T. Bremigan, *K.S. Cherovelil, S.M. Hanson, K.L. Rogers, R.D. Valley* and J.D. Madsen. 2001. The importance of macrophyte cover in lakes to littoral and pelagic foodwebs. Oral presentation at the Ecological Society of America, Madison, Wisconsin. August 2001.
- Nelson, S.A.C., P.A. Soranno*, and J. Qi. 2001. Land cover change in the upper Barataria Basin Estuary, Louisiana from 1972-1992: Increases in wetland area. Oral presentation at the Ecological Society of America, Madison, Wisconsin. August 2001.
- Rogers, K.L.* and **P.A. Soranno**. 2001. Differences between littoral and pelagic zooplankton communities and the role of macrophyte cover. Oral presentation at the Ecological Society of America, Madison, Wisconsin. August 2001.
- Bremigan, M.T., **P.A. Soranno**, *K.S. Cherovelil, S.M. Hanson, K.L. Rogers, R.D. Valley*, and J.D. Madsen. 2001. Control of Eurasian watermilfoil using Sonar herbicide: effects on littoral and pelagic zone foodwebs. Oral presentation at the annual meeting of the Aquatic Plant Management Society, Minneapolis, Minnesota. July 2001.
- Nelson, S.A.C., P.A. Soranno*, and J. Qi. 2001. Land cover change in the upper Barataria Basin Estuary, Louisiana from 1972-1992: Increases in wetland area. Oral presentation at the Society of Wetland Scientists, Chicago, Illinois. May 2001.
- Rogers, K.L.* and **P.A. Soranno**. 2001. The influence of an invasive macrophyte (*Myriophyllum spicatum* L.) on zooplankton community structure. Oral presentation at the Michigan Academy of Science, Arts and Letters Annual Meeting. Dearborn, Michigan. March 2001.
- Walsh, S.E.* and **P.A. Soranno**. 2000. Lakes, streams, and wetlands as drivers of riparian land use pattern and change. Oral presentation at the American Water Resources Association Annual Summer Specialty Conference: International Conference on Riparian Ecology and Management in Multi-Land Use Watersheds. Portland, Oregon. August 2000.
- Cherovelil, K.S., P.A. Soranno* and J.D. Madsen. 2000. Epiphytic macroinvertebrate abundance along a gradient of Eurasian water milfoil cover. Oral presentation at the Aquatic Plant Management Society 40th Annual Meeting and International Symposium on Invasive Weeds. San Diego, California. July 2000. \* Award: Best Student Paper, 2<sup>nd</sup> place.
- Cherovelil, K.S., P.A. Soranno, J.D. Madsen, and M.J. Sanborn*. 2000. The effects of Eurasian water milfoil invasion on interactions between plant architecture and epiphytic macroinvertebrates. Poster Presentation at the Fifth Annual Science to Achieve Results (STAR) Graduate Fellowship Conference. Washington, D.C. July 2000.
- Cherovelil, K.S., P.A. Soranno, J.D. Madsen*. 2000. Epiphytic macroinvertebrate abundance along a gradient of Eurasian watermilfoil cover. 2000. Oral presentation at the American Society of Limnology and Oceanography Aquatic Sciences Meeting. Copenhagen, Denmark. June 2000.
- Walsh, S.E.* and **P.A. Soranno**. 2000. Lakes, streams, and wetlands as drivers of riparian land use pattern and change. Oral presentation at the American Society of Limnology and Oceanography Aquatic Sciences Meeting. Copenhagen, Denmark. June 2000.

- Webster, K.E., **P.A. Soranno**, S.B. Baines, C.J. Bowser, T.K. Kratz, J.J. Magnuson, P.J. Dillon, P. Campbell, E.J. Fee and R.E. Hecky. 1999. Structuring features of lake districts in Wisconsin and Ontario: Geomorphic and landscape controls on lake responses to drought. Oral presentation at Ecological Society of America Workshop on: Formation of a North American Regional LTER Network: Cross-site research opportunities for Canada, Mexico and the U.S. Spokane, Washington. August 1999.
- Cheruvilil*, K.S., R.D. Serbin and **P.A. Soranno**. 1999. A new sampling method for the study of macroinvertebrates associated with submerged macrophytes in lakes. Oral presentation at the North American Benthological Society Meeting, Duluth, Minnesota. May 1999.
- Soranno, P.A.**, K.E. Webster, J.S. Baron, J.L. Riera, R.C. Lathrop, D. White and T.K. Kratz. 1998. The role of landscape position in predicting the characteristics of lakes along a positional series. Oral presentation at the XXVII Congress of Societas Internationalis Limnologiae (SIL) of the International Association of Theoretical and Applied Limnology. Dublin, Ireland. August 1998.
- Webster, K.E., **P.A. Soranno**, T.K. Kratz, R.C. Lathrop, P.J. Dillon, P. Campbell, E.J. Fee and R.E. Hecky. 1998. Factors influencing the dynamics of highland lakes in contrasting hydrologic settings. Oral presentation at the XXVII Congress of Societas Internationalis Limnologiae (SIL) of the International Association of Theoretical and Applied Limnology. Dublin, Ireland. August 1998.
- Soranno, P.A.**, K.E. Webster, J.S. Baron, J.L. Riera, R.C. Lathrop, D. White, and T.K. Kratz. 1998. The role of landscape position in predicting the characteristics of lakes along a positional series. Oral presentation at the American Society of Limnology and Oceanography and Ecological Society of America - The land-water interface: Science for a sustainable biosphere. St. Louis, Missouri. June 1998.
- Baines, S.B., K.E. Webster, **P.A. Soranno**, T.K. Kratz and S.R. Carpenter. 1997. Determinants of synchrony in lake water quality and physical structure across a landscape. Oral presentation at the Ecological Society of America Annual Meeting, Providence, Rhode Island. August 1997.
- Soranno, P.A.**, T.K. Kratz, J.J. Magnuson. 1996. Regionalization of lake studies: Collaboration between Canadian and U.S. long-term sites. Poster presentation at the Ecological Monitoring and Assessment Network: 2<sup>nd</sup> National Science Meeting, Halifax, Canada. January 1996.
- Soranno, P.A.** 1995. The timing of surface blooms and epilimnetic chlorophyll: Effects of nutrients, grazing and climate. Oral presentation at the American Society of Limnology and Oceanography, Reno, Nevada. June 1995.
- Soranno, P.A.** and S.R. Carpenter. 1994. Response of Cyanobacteria to external phosphorus loading and entrainment of phosphorus from the hypolimnion in a deep stratified lake. Oral presentation at the International Association on Water Quality - International Association of Theoretical and Applied Limnology special conference, Amsterdam, The Netherlands. December 1994.
- Soranno, P.A.**, S.L. Hubler, S.R. Carpenter and R.C. Lathrop. 1993. The impacts of watershed characteristics on nutrient loading into Lake Mendota, WI. Oral presentation at the North American Lake Management International Symposium, Seattle, WA. November 29 – December 1993. \* Award: Best Student Paper.
- Soranno, P.A.**, S.L. Hubler, S.R. Carpenter and R.C. Lathrop. 1993. The impact of land use, location and slope of the watershed on water quality in Lake Mendota, WI. Oral presentation at the Ecological Society of America Annual Meeting, Madison, Wisconsin, July 1993.
- Soranno, P.A.**, T.B. Johnson, R.C. Lathrop, B.M. Johnson, J.F. Kitchell, and S.R. Carpenter. 1992. Lake Mendota biomanipulation project: Phase II – 1990 - 1992. Poster presentation at the North American Lake Management International Symposium, Cincinnati, Ohio. November 1992.
- Soranno, P.A.** and S.R. Carpenter. 1991. Response of zooplankton communities to whole-lake fish manipulations. Oral presentation at the American Society of Limnology and Oceanography, Halifax, Canada. June, 1991.
- Soranno, P.A.**, S.R. Carpenter and M.M. Elser. 1989. Zooplankton community dynamics in manipulated lakes. Poster presentation at the Ecological Society of America Annual Meeting, Toronto, Canada. June, 1989.

## Professional Service, Leadership, and Engagement

### *Editorial positions*

- Editor-in-Chief, *Limnology and Oceanography Letters*. 2015-present  
 PLOS Data Guidelines Board. 2015 - present  
 Editorial Board member, *GigaScience*, 2014-2015  
 Editorial Board member, *Frontiers in Ecology and the Environment*. 2014 – 2015.  
 Editorial Board member, *Scientific Data* (journal of the Nature Publishing Group). 2013 – 2015.

Guest Co-Editor, Special issue in *Frontiers in Ecology and the Environment: Macrosystems Ecology*. 2012 – 2013.  
Editorial Board member, *Ecosystems*. 2009 – 2015.

### **Panel member and reviews**

Participant (invited), Complex Data Integration Workshop, American Institute of Biological Sciences, funded by National Science Foundation, March 30-31, 2015, Washington DC.  
Panel member (multiple programs), NSF: 2018, 2017, 2011, 2010, 2009  
Reviewer for peer-review journals: *Aquatic Sciences*, *BioScience*, *Canadian Journal of Fisheries and Aquatic Sciences*, *Ecology*, *Ecological Applications*, *Ecosystems*, *Freshwater Biology*, *Freshwater Science*, *Global Ecology and Biogeography*, *Hydrobiologia*, *Hydrological Processes*, *Inland Waters*, *Journal of Geophysical Research*, *Journal of Natural Resources and Science Education*, *Landscape Ecology*, *Limnology and Oceanography*, *Limnology and Oceanography Methods*, *Oikos*, *Phycologia*, *Water Resources Research*  
Reviewer for granting agencies: *National Science Foundation*, *Great Lakes Protection Fund*, *The Netherlands Organisation for Scientific Research ( the Dutch research council)*, *USDA Water Quality Grants*, *MSU Water Quality Grants*, *MSU Center for Water Sciences*, *Environmental Protection Agency*

### **Disciplinary engagement**

Invited panelist for an early career workshop: *Effective Publishing and Review Strategies* at the Association for the Sciences of Limnology and Oceanography, Victoria, BC. June 2018.  
Invited panelist for a student workshop: *Publish me, please!* at the Association for the Sciences of Limnology and Oceanography, Victoria, BC. June 2018.  
Advisory Board, *2019 Science of Team Science Conference*. June 2018-May 2019.  
Co-convenor of special session, *Tipping the scales: Examining broad-scale patterns and processes in limnology*. I. McCullough, J.-F. Lapierre, K.S. King, K.S. Cheruvilil, and P.A. Soranno. At the Association for the Sciences of Limnology and Oceanography Summer Meeting, June 10-15, 2018.  
Co-convenor of special session, *Creativity in Ecology: Where do good ideas come from?* P.C. Hanson, P.A. Soranno. At the 102<sup>nd</sup> Annual Meeting of the Ecological Society of America, August 8, 2017.  
Member, National Ecological Observatory Network (NEON) Technical Working Group on NEON Aquatic Sampling. June 2017 – present.  
Co-convenor of special session, *Supporting data-intensive freshwater and marine research: Integrating informatics*, H. Glaves, J. Pearlman, D. Schaap, M. Follows, K.S. Cheruvilil, E.H. Stanley, A. White, and P.A. Soranno. *infrastructure, databases and open science*. At the Association for the Sciences of Limnology and Oceanography All Sciences meeting, Honolulu, HI. February 26- March 3, 2017.  
Faculty Mentor (invited) to the 2016 Eco-DAS symposium (Ecological Dissertations in the Aquatic Sciences). October 24-28, 2016.  
Working group participant (invited) at SESYNC (National Socio-Environmental Synthesis Center ) on: *The value of lakes: evidence from geotagged social media*. Project leads: Bonnie Keeler and Spencer Wood. 2016-2018.  
Scientific Advisory Committee of the GRIL (Interuniversity Research Group in Limnology and Aquatic Environments). 2015 – present.  
International collaborator for UK Natural Environment Research Council Highlight Topics Program Grant: *Hydroscape: Connectivity x stressor interaction in freshwater habitats*. Lead PI: N. Willby (University of Stirling. 2.9 million GBP (none to MSU). 2015-2019. <https://hydroscapeblog.wordpress.com/about/>  
Panelist and presenter (invited) at MSU Cyberinfrastructure Forum, Panel on: *Sharing is Caring: Challenges and Opportunities in Producing Open Data*. October 22, 2015. East Lansing, MI.  
Discussion leader (invited). Topic: *Conceptual frameworks: Are thresholds and resilience useful frameworks for understanding catchment behavior?* Gordon Research Conference: Catchment Science: Interactions of Hydrology, Biology and Geochemistry. Proctor Academy, Andover, NH. Jun 14-19, 2015.  
Chair, Ruth Patrick Award Subcommittee of the Awards and Citations Committee of the *Association for the Sciences of Limnology and Oceanography*, 2014-2015  
Member, Ruth Patrick Award Subcommittee of the Awards and Citations Committee of the *Association for the Sciences of Limnology and Oceanography*, 2012-2013.  
Member, Organizing Committee for NSF-sponsored meeting, *NSF Macrosystems Biology Program all-PI meeting*, Arlington, VA, June 6-7, 2012.  
Chair, Organizing Committee for NSF-sponsored meeting, *NSF Macrosystems Biology Program all-PI meeting*, Boulder, CO, March 11-14, 2012.

Member of 'Landscape and water' committee, Michigan H2Objective Conference: Research Shaping Michigan's Water Future. Wayne State University. September 29-30, 2011.

Session moderator, *Scale*. US-International Association for Landscape Ecology Annual Symposium, *Sustainability in Dynamic Landscapes*, Portland, OR, April 2011.

Co-convener of special session, *Landscape limnology: Integrating lakes, streams and wetlands in the freshwater landscape*, P.A. Soranno, K.S. Cheruvilil and M.T. Bremigan. Joint Meeting of the American Society of Limnology and Oceanography and the North American Benthological Society, Santa Fe, June 2010.

Scientific Committee Member, *2011 American Society of Limnology and Oceanography Annual Meeting*, Puerto Rico, January 2010-2011.

Member of the Ecological Society of America's Thomas Frost Award Selection Committee. Fall 2008 – present.

Co-convener of special session, *Lakes, Streams and Wetlands in the Landscape: Linkages among freshwater systems*, W.A. Wurtsbaugh, M. Schallenberg, J.J. Frenette, S. Larned, P.A. Soranno, and E.H. Stanley. 30th Congress of the International Association of Theoretical and Applied Limnology. Montreal, Canada. August 12-18, 2007.

Co-convener of special session, *Landscape limnology: Interactions among land, water, and humans at multiple spatial scales*, K.E. Webster, K. Spence Cheruvilil, M.T. Bremigan and P.A. Soranno. American Society of Limnology and Oceanography annual meeting, British Columbia, June 2006.

Co-Organizer of EPA-sponsored National Lake Assessment and Planning Workshop (30 attendees representing 6 states): *HydroGeomorphic Lake Classification Workshop*. Radisson Hotel, Lansing, MI. November 17-18, 2005.

Session Moderator for *Aquatic Plant Ecology Session*. North American Lake Management Society Annual Conference. Madison, WI. November 6 – 9, 2001.

Judge for Buell-Braun Student Award for Excellence in Ecology at the Ecological Society of America Annual Meeting. Madison, Wisconsin. August 6-10, 2001.

Co-Investigator in the NASA-funded Upper Great Lakes Regional Earth Science Applications Center (RESAC), in cooperation with researchers at MSU, University of Wisconsin-Madison and University of Minnesota. 1999-2002.

Member of the Planning Committee for the U.S. - International Association of Landscape Ecology Conference (IALE) held at Michigan State University, East Lansing, MI. March 17-21, 1998.

Co-organizer, with Dr. J. Liu and Dr. W. Taylor, for workshop on "Bridging the Gap between Landscape Ecology and Natural Resource Management", US-IALE Meeting, East Lansing, MI, March 17-21, 1998.

Panel member for the NSF/EPA sponsored, *Water and Watersheds Program*, Washington D.C. May 1997.

Co-organizer, with Dr. T. Kratz, workshop on *Ecological Variability and Organization of Lake Districts* (funded by NSF-Long-term Ecological Research Program). University of Wisconsin, Trout Lake Station, Boulder Junction, WI. Attended by 20 participants from North America and Europe. February 5-7, 1997.

Attendee (invited) at the symposium on *Synthesis in Ecology: Applications, Opportunities, and Challenges* at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California. November 17-20, 1996.

### ***Service within the University***

Member (invited). Advisory Board, Center for Interdisciplinarity, College of Arts and Letters, Michigan State University. 2017-present.

Member (elected). Search Committee, Department of Fisheries and Wildlife Department Chairperson. Spring 2017-present.

Member (elected). Faculty Senate and University Council, Michigan State University. 2017 – 2020.

Chairperson. Committee on Diversity, Equity, and Inclusion, Department of Fisheries and Wildlife, MSU. Fall 2017 – present.

Co-led an effort to create a new departmental committee: *Department Fisheries and Wildlife Inclusive and Excellence Committee*, 2017.

Co-presenter to the Department of Fisheries and Wildlife Faculty Retreat, with K.C. Elliott, D. Infante, and K.S. Cheruvilil, *The value and need for a Fisheries and Wildlife Inclusion Committee*. August 17, 2017.

Panel member (invited). Environmental Science and Public Policy Colloquia: Understanding complex human-environment systems. January 12, 2017.

Member (invited). Search Committee for Senior Terrestrial Ecologist, MSU-Kellogg Biological Station and the College of Agriculture and Natural Resources,. Fall, 2016.

Member (invited). Search committee, Founding Director of the Center for Interdisciplinarity, MSU-College of Arts and Letters. Fall, 2016.

Member (elected). Promotion, & Tenure Review Committee, MSU-College of Agriculture and Natural Resources (CANR) Reappointment, 2014-2017.

Member (invited). *Science and Society at State* Advisory Board, an interdisciplinary program to foster interdisciplinary research between STEM and humanities faculty, 2014-present.

Member. CANR IT Services Advisory Group, 2013-2014

Panel member, Faculty panel on Research Enabling Technologies at MSU's Cyberinfrastructure Days Meeting. October 2013.

Chair. FW Department Ad-hoc committee to review the procedures for departmental Reappointment, Promotion and Tenure review. 2012-2013.

Chair (elected). FW Department Advisory Committee. 2012-2013.

Member (elected). FW Department Advisory Committee. 2011-2012.

Chair. FW Department Curriculum Committee. 2010-2011.

Member. CANR Restructuring Task Team. Helped to draft white paper on the creation of a new department in CANR with members from multiple departments. 2009 - 2010

Department representative (elected). CANR College Advisory Committee. 2008 – 2010.

Chair. FW Department Committee on Faculty Input & Peer Review for Faculty Appointments & Evaluation. 2008-2009

Member. FW Department Committee on Faculty Input & Peer Review for Faculty Appointments and Evaluation. 2007-2009.

Judge. FW Department Graduate Symposium. 2008, 2009.

Member. Faculty Search Committee for MSU Kellogg Biological Station and Department of Zoology - Aquatic Ecologist tenure-stream position. 2005

Member. MSU-Center for Water Sciences, Science Advisory Board. 2005 – 2010.

Member. Faculty Search Committee for Department of Plant Biology and Department of Fisheries and Wildlife - Wetlands Ecologist tenure-stream position. 2004

Member. FW Department Curriculum Committee. 2004 – 2005

Chair. FW Department Curriculum Committee. 2003 – 2004

Secretary, CANR College Teaching and Academic Policy Committee. 2003 – 2004

Member. CANR College Teaching and Academic Policy Committee. 2001 – 2002.

Member. FW Department Curriculum Committee. 1998-2000.

Member. College of Natural Sciences Russell and Laura Whalls Library Endowment Fund Committee. 1997-2002.

### ***Outreach and Service within the Broader Community***

Presentation to the 13<sup>th</sup> Annual Conference of the Michigan Clean Water Corps, "Using citizen science data for lake water quality research to inform policy". Tustin, MI. November 9, 2017.

Presentation to the *MSU-Library Environmental Series* for college librarians titled, "Taking the Macroscopic View of Lake Ecology: Studying 50,000 Lakes in the Midwestern and Northeastern US". Michigan State University, East Lansing. October 18, 2017.

Presentation to the *Great Lakes Science Boot Camp* for college librarians working with science researchers titled, "Taking the macroscopic view of lake ecology". Michigan State University, East Lansing. July 21, 2017.

Panelist, *Citizen science! How curious citizens contribute to research around the world*. Panel presentation at the MSU Science Festival along with panelists: Casey O'Donnell, Darren Bagley, Misty Klotz. April 18, 2015.

Provided expert opinion to EPA and Michigan DEQ on setting statewide Hg and PCB TMDL's for Michigan. July 2011.

Provided technical review to EPA on of the procedures for the state of Missouri to develop nutrient criteria in their waterbodies to protect their designated uses. June 2011.

Developed the approach to quantify nutrient standards in lakes in the Fond du Lac and Grand Portage Reservations. Report submitted to: Fond du Lac Reservation Office of Water Protection and Grand Portage Reservation Water Quality Program. May 2011.

Provided expert opinion on *Draft Report to Congress: Strengthening the scientific understanding of climate change impacts on freshwater resources of the US*. March 2011.

Provided conceptual framework for planning document of the UK for the Water Framework Directive (analogous to the US Clean Water Act). (Rowan, J.S. 2010. *Developing a lake hydromorphology typology for the UK*. Project WFD104.

Provided conceptual framework for the Report from workshop (Deliverable D6.3-1) for the Swedish WISER group (Angeler, D. and R.K. Johnson. 2010. *Water bodies in Europe: Integrative Systems to Assess Ecological Status and Recovery*; <http://www.wiser.eu/download/D6.3-1.pdf>).

Appointed to the State of Michigan Legislature's Water Resources Conservation Advisory Council, and elected Chairperson of the 'Effects on inland lakes and wetlands' subcommittee. 2008 – 2010.

Helped the MI-Department of Environmental Quality identify reference lakes for Michigan as part of the EPA's Survey of the Nation's Lakes. 2007.

Member. Michigan Department of Environmental Quality Nutrient Criteria Taskgroup. 2005 – 2007.  
Lead scientist for developing nutrient standards for MI lakes. 2005 - 2007.  
Member. Science Advisory Board, Michigan Lakes and Stream Association. 2000-2004.

## Teaching Experience

### *Undergraduate*

*Undergraduate Seminar in Fisheries and Wildlife* (Co-taught with Dr. Amber Peters). Fall 2016-present.  
*Limnology* (Undergraduate course using a flipped teaching design: 3 credits). Course taught in newly constructed REAL classroom (Rooms for Engaged and Active Learning). Spring 2013-present.  
*Limnology* (Undergraduate lecture course: 3 credits). Spring 1999-present.  
*Aquatic Ecosystem Management* (Undergraduate lecture course: 3 credits). Fall 2000-2006.  
*Applications of GIS in Natural Resource Management* (Lecture and laboratory course; 3 credit hours). Course co-taught with Dr. Kelly Millenbah. Spring 1997.  
*Environmental Issues Seminar* (Undergraduate seminar course: 1 credits). Spring 1999.  
*Limnological and Fisheries Techniques* (Lab/field & lecture course; 3 credits). Co-taught with Dr. Thomas Coon. Fall 1996.

### *Graduate*

*Seminar: Philosophy of environmental science: Big data, values and interdisciplinarity*. Spring 2016  
*Advanced Limnology* (Graduate lecture course: 3 credits). Spring even years (2000 - 2010).  
*Seminar: Defining reference conditions in lakes, streams and wetlands: approaches and perspectives*. Spring 2007.  
*Seminar: Freshwater Ecosystems as Integrators of the Landscape*. Fall 1997.

### *Other instructional activities*

Presenter (invited). Using the REAL Classroom at MSU: Faculty Perspectives at *Explorations in Instructional Technology Brown Bag Seminar*. September 27, 2013.  
Participant (invited). *The Future of Learning + Instructional Space Design Innovation workshop*. September 18-19, 2013.  
Panel member (invited). *Workshop: Using Rooms for Engaged and Active Learning* at MSU. March 15, 2013.  
Workshop presenter (invited). *Making the case: an introduction to case-based learning in the sciences*. A workshop at: Teaching Essentials for MSU STEM Faculty. February 11, 2013.  
Selected member, *MSU-REAL Academy* (Rooms for Engaged and Active Learning). Fall 2012.  
Selected member, *Faculty Writing Project*, Michigan State University. May 1997.

## Graduate and Post-Doctoral Advisees

Dr. Ian McCullough (Post-doc) 2017-present  
Joseph Stachelek (Ph.D.) 2016-present  
Dr. Sarah M. Collins (Post-doc) 2014-2017. *Current position: Asst. Professor, University Wyoming, Laramie.*  
Dr. Caren Scott (Post-doc) 2013-2015. *Current position: Staff Scientist, National Ecological Observatory Network*  
C. Emi Fergus (Ph.D.) 2010 – 2016. *Current position: Post-doc, Western Ecol. Division, Environmental Protection Agency*  
Katie Droscha (M.S.) 2008 – 2011. *Current position: Soil Conservationist, Nat. Rscce Conservation Service, Region 3, MI.*  
C. Emi Fergus (M.S.) 2007 – 2010. *Current position: see above*  
Sherry L. Martin (M.S.) 2002 –2004. *Current position: Postdoctoral researcher, Michigan State University*  
Kendra Spence Cheruvellil (Ph.D.) 2000 – 2004. *Current position: Professor, Michigan State University*  
Stacy Nelson (Ph.D.) Fall 1997 –2002. *Current position: Professor, North Carolina State University*  
Kendra Spence Cheruvellil (M.S.) 1997 –2000. *See above*  
Sarah Walsh (Holden) (M.S.) 1997 –2000. *Current position: Aquatic Biologist, Michigan Dept. of Environmental Quality*

## Professional Membership

*American Association for the Advancement of Science*  
*American Institute of Biological Sciences*  
*Association for the Sciences of Limnology and Oceanography*  
*Ecological Society of America*

Global Lake Ecological Observatory Network  
International Association for Landscape Ecology  
International Society of Limnology  
North American Lake Management Society  
Faculty member of Ecology, Evolutionary and Behavioral Biology Graduate Program (Michigan State University)  
Faculty member of Environmental Science and Policy Program (Michigan State University)  
Faculty member of the Center for Water Sciences (Michigan State University)

## Media Engagement

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