

**CURRICULUM VITAE
EMILY H. STANLEY**

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EDUCATION

B.S., Biology, Yale University, 1984
M.S., Biology, Southwest Texas State University, 1986
Ph.D., Zoology, Arizona State University, 1993

PROFESSIONAL EMPLOYMENT

Professor, Department of Integrative Biology, University of Wisconsin, 2010-present
Associate Chair, Department of Integrative Biology, University of Wisconsin, 2023- present
Interim Director, Center for Limnology, University of Wisconsin, 2022-2023
Chair, Freshwater and Marine Sciences Graduate Program, University of Wisconsin, 2014-2021
Associate Professor, Department of Zoology, University of Wisconsin, 2004-2010
Assistant Professor, Department of Zoology, University of Wisconsin, 1998-2004
Assistant Professor, Department of Zoology, Oklahoma State University, 1995-1998
Post-Doctoral Associate, Department of Biological Sciences, University of Alabama, 1993-1995

OTHER APPOINTMENTS AND AFFILIATIONS

Freshwater and Marine Sciences Graduate Faculty, University of Wisconsin
Nelson Institute for Environmental Studies Graduate Faculty, University of Wisconsin

RESEARCH INTERESTS

Aquatic ecosystem ecology and biogeochemistry; long-term change in ecosystems; geomorphic and hydrologic influences on the ecology of streams and lakes; global change ecology

AWARDS AND HONORS

Hilldale Award, Biological Sciences- University of Wisconsin-Madison, 2025
Sustaining Fellow- Association for the Science of Limnology and Oceanography, 2024
Wayland E. Noland Distinguished Chair in Integrative Biology, University of Wisconsin-Madison, 2020-2023
G.E. Hutchinson Award- Association for the Science of Limnology and Oceanography, 2018
Fellow- Ecological Society of America, 2018
Fellow- Society for Freshwater Sciences, 2018
Kellett Mid-Career Faculty Researcher Award- University of Wisconsin-Madison, 2015
Romnes Faculty Fellowship Award- University of Wisconsin-Madison, 2008

Fellow- Aldo Leopold Leadership Program, 2006
Vilas Associate Award- University of Wisconsin-Madison, 2003
Madison Magazine- Madison's 50 People Who Make a Difference List, 2002
American Dissertation Fellowship- American Association of University Women Educational Foundation, 1991-1992
Graduate College Fellowship- Arizona State University, 1988-1989
Southwest Texas State University-
School of Science Award for Academic Excellence, 1986
Fred and Yetta Richan Development Award, 1986

PUBLICATIONS

Peer-reviewed journal articles

155. Ortiz, D., S.R. Blackburn, T. Daulton, B. Kovar, M. Meyer, C. Pralle, and E.H. Stanley. 2026. Wake boats and lakes: physical, ecological, and policy implications. *Lake and Reservoir Management* <https://doi.org/10.1080/10402381.2025.2578757>
154. Gorsky, A., H. Dugan, E.H. Stanley, M. J. Vander Zanden, G. Wilkinson and R. Lathrop. 2026. Long-term stability of macrophyte dominance triggered by common carp removal from a temperate shallow lake. *Ecosystems* <https://doi.org/10.1007/s10021-025-01040-0>
153. Saunio, M., A. Martinez, B. Poulter, Z. Zhang, P. Raymond, P. Regnier, J.G. Canadell, P.K. Patra, P. Bousquet, R.B. Jackson, P. Ciais, E.J. Dlugokencky, X. Lan, G.H. Allen, D. Bastviken, D.J. Beerling, D.A. Belikov, D.R. Blake, S. Castaldi, M. Crippa, B.R. Deemer, F. Dennison, G. Etiope, N. Gedney, L. Höglund-Isaksson, M.A. Holgerson, P.O. Hopcroft, G. Hugelius, A. Ito, A.K. Jain, R. Janardanan, M.S. Johnson, T. Kleinen, P. Krummel, R. Lauerwald, T. Li, X. Liu, S. Maksyutov, K.C. McDonald, J.R. Melton, J. Mühle, J. Müller, F. Murguía-Flores, Y. Niwa, S. Noce, S. Pan, R.J. Parker, C. Peng, M. Ramonet, W.J. Riley, G. Rocher-Ros, J.A. Rosentreter, M. Sasakawa, A. Segers, S.J. Smith, E.H. Stanley, J. Thanwerdas, H. Tian, A. Tsuruta, F.N. Tubiello, T.S. Weber, G. van der Werf, D.E. Worthy, Y. Xi, Y. Yoshida, W. Zhang, B. Zheng, Q. Zhu, Q. Zhu, and Q. Zhuang. 2025. Global Methane Budget 2000-2020. *Earth System Science Data* 17: 1873–1958. <https://doi.org/10.5194/essd-2024-115>
152. Dornelas, M., L.H. Antao, A.E. Bates, V. Brambilla, J. M. Chase, C.F.H. Chow, A. Fontrodona-Eslava,E.H. Stanley.....2025. BioTIME 2.0: Expanding and improving a database of biodiversity time series. *Global Ecology and Biogeography* 34, e70003. <https://doi.org/10.1111/geb.70003>
151. Taniwaki, R.H., E.H. Stanley, D.G.F. Cunha, C. B. Bento, M. S. Ferreira, L. A. Martinelli, M. V. França, L. C. Schiesari, S. Partani, and J. B. do Carmo. 2025. Carbon dioxide dynamics in headwater streams draining native and sugarcane cultivation catchments. *Inland Waters* <https://doi.org/10.1080/20442041.2024.2431400>
150. Zhang, L., E.H. Stanley, G. Rocher-Ros, J.F. Dean, D. Li, Q. Wang, L. Zhang, T. Xie, and X. Xia. 2024. System-wide greenhouse gas emissions from alpine permafrost-affected reservoirs on the Qinghai-Tibet Plateau. *Global Biogeochemical Cycles* 38: e2024GB008112. <https://doi.org/10.1029/2024GB008112>
149. Shen, M., R. van Klink, A. Sagouis, D.K. Petsch, D.A. Obong'o, J. Alahuhta, S.A. Al-Shami, L.C. Armendáriz, M.-J. Bae, T.O. Begot, J. Belliard, J.P. Benstead, F.F. Bomfim, E. Bredenhand, W.R. Budnick, M. Callisto, L.B. Calvão, C.P. Camacho-Rozo, M.

- Cañedo-Argüelles, F.G. Carvalho, J. Chapman, L. Chapman, Q. Chen, B. Chernoff, L. Cibils-Martina, G.P. Closs, J.J. Corbi, E.J. Cunha, A.M. Cunico, P. De los Rios-Escalante, S. Dolédec, B. Dunck, A.O. Edegbene, A.C. Engman, T. Erös, K.E. Esteves, R.C.P. Faquim, A.P.J. Faria, C.M. Ferreira, M.C. Ferreira, P. Fierro, P.V. Freitas, V. Fugère, T.D. Garcia, X. Giam, G.M.R. Gonino, J.D. González-Herrera, M.J. Hill, A.N. Huda, C. Iniguez-Armijos, A. Jamoneau, M. Jonsson, L. Juen, W.T. Kadye, K. Kahirun, A. Kasangaki, C.A. Larson, A.L. Pereira, T. Leboucher, G.F.M. Leite, D. Li, A. Luiza-Andrade, S.H. Luke, M.J. Lundquist, D. Lupi, J. Machuca-Sepúlveda, M.A. Macuiane, N.J. Mancera-Rodriguez, J. Marquez, R.T. Martins, F.O. Masese, M.S. Meixler, T.S. Michelan, M.J. Monge-Salazar, J.L. Mruzek, H.D. Mugni, H.G.T. Ndagurwa, A. Niba, J. Nimptsch, R. Novelo-Gutiérrez, H. Ochieng, R. Pacheco-Díaz, Y.-S. Park, S.I. Passy, R.G. Pearson, A. Peressin, E. Périco, M.M. Pires, H. Poulos, R.E. Principe, B.S. Prudente, B. Ríos-Touma, R. Ruaro, J.J. Schmitter-Soto, F. Schneck, U.H. Schulz, C. Selvakumar, C.M. Sharma, T. Siqueira, M.L. Solis, R.G.C Sousa, E.H. Stanley, C. Stenger-Kovács, E. Tales, F.B. Teresa, I. Thornhill, J. Tison-Rosenbery, T.B. Vieira, S. Villada-Bedoya, J. White, P.J. Wood, Z. Xie, C.M. Yule, J.A.C. Zequi, and J.M. Chase. 2024. FreshLanDiv: A global database of freshwater biodiversity across different land uses. *Global Ecology and Biogeography*. <http://doi.org/10.1111/geb.13917>
148. Dugan, H.A., Z.S. Feiner, M. Winder, H.M. Sosik, and E.H. Stanley. 2024. Advancing phenology in limnology and oceanography. *Limnology and Oceanography Letters* 9: 506-511. <https://doi.org/10.1002/lol2.10432>
147. Gorsky, A., H.A. Dugan, E.H. Stanley, and G.M. Wilkinson. 2024. Under-ice oxygen depletion and greenhouse gas supersaturation in north temperate urban ponds *Journal of Geophysical Research-Biogeosciences* 129, e2024JG008120. <https://doi.org/10.1029/2024JG008120>
146. Rocher-Ros, G., E.H. Stanley, L.C. Loken, N.J. Casson, P.A. Raymond, S. Liu, G. Amatulli, and R.A. Sponseller. 2023. Global methane emissions from rivers and streams. *Nature* 621: 530–535. <https://doi.org/10.1038/s41586-023-06344-6>
*ISI Highly cited paper
145. Stanley, E.H., L.C. Loken, N.J. Casson, S.K. Oliver, R.A. Sponseller, M.B. Wallin, L. Zhang, and G. Rocher-Ros. 2023. GRiMeDB: The global river database of methane concentrations and fluxes. *Earth System Science Data* 15: 2879–2926. <https://doi.org/10.5194/essd-15-2879-2023>
144. DelVecchia, A.G., S. Rhea, K.S. Aho, E.H. Stanley, E.R. Hotchkiss, A. Carter and E.S. Bernhardt. 2023. Variability and drivers of CO₂, CH₄, and N₂O concentrations in streams across the United States. *Limnology and Oceanography* 68: 394-408. <https://doi.org/10.1002/lno.12281>
*Top downloaded article award, *Limnology and Oceanography*
143. Carpenter, S.R., M. Gahler, C.J. Kucharik and E.H. Stanley. 2022. Long-range dependence and extreme values of precipitation, phosphorus load, and Cyanobacteria. *Proceedings of the National Academy of Sciences* 119: e2214343119. <https://doi.org/10.1073/pnas.2214343119>
142. Taniwaki, R., D.F. Cunha, C.B. Bento, L.A. Martinelli, E.H. Stanley, S. Filoso, M. de Souza Ferreira, M.V. França, J.W. Ribeiro, L.C. Schiesari and J. Braga do Carmo. 2022. Methane concentrations and fluxes in agricultural and preserved tropical headwater

- streams. *Science of the Total Environment*. 844: 157238.
<http://dx.doi.org/10.1016/j.scitotenv.2022.157238>
141. Buelo, C., M.E. Pace, S.R. Carpenter, E.H. Stanley, D. Ortiz, and D. Ha. 2022. Evaluating the performance of temporal and spatial early warning statistics of algal blooms. *Ecological Applications* 32:e2616. <https://doi.org/10.1002/eap.2616>
140. Stanley, E.H. 2022. Taking a broader view of Three Gorges Dam. *National Science Review* 9:nwac032. <https://doi.org/10.1093/nsr/nwac032>
139. Bernhardt, E.S., P. Savoy, M.J. Vlah, A.P. Appling, L.E. Koenig, R.O. Hall, Jr., M Arroita, J.R. Blaszczak, A.M. Carter, M. Cohen, N.B. Grimm, J.W. Harvey, J.B. Heffernan, A.M. Helton, J.D. Hosen, L. Kirk, W.H. McDowell, E.H. Stanley, and C.B. Yackulic. 2022. Light and flow regimes regulate the metabolism of rivers. *Proceedings of the National Academy of Sciences* 119: e2121976119. <https://doi.org/10.1073/pnas.2121976119>
138. Zhang, L., Zhang, S., Xia, X. Battin, T.J., S. Liu, Q. Wang, R. Liu, Z. Yang, J. Ni, and E.H. Stanley. 2022. Unexpectedly minor nitrous oxide emissions from fluvial networks draining large permafrost catchments of the East Qinghai-Tibet Plateau. *Nature Communications* 13: 950. <https://doi.org/10.1038/s41467-022-28651-8>
137. Butitta, V.L., A.L. Rypel, and E.H. Stanley. 2021. Environmental controls on long-term growth of freshwater mussels in an oligotrophic lake. *Freshwater Science* 40:316-327. <https://doi.org/10.1086/714596>
136. Gómez-Gener, L. Rocher-Ros, G., T. Battin, M.J. Cohen, H.J. Dalmagro, K.J. Dinsmore, T.W. Drake, C. Duvert, A. Enrich-Prast, Å. Horgby, M.S. Johnson, L. Kirk, F. Machado-Silva, N.S. Marzolf, M.J. McDowell, W.H. McDowell, H. Miettinen, A.K. Ojala, H. Peter, J. Pumpanen, L. Ran, D.A. Riveros-Iregui, I.R. Santos, J. Six, E.H. Stanley, M.B. Wallin, S.A. White, and R.A. Sponseller. 2021. Global carbon dioxide efflux from rivers enhanced by high nocturnal emissions. *Nature Geoscience* 14: 289-294. <https://doi.org/10.1038/s41561-021-00722-3>
- *ISI Highly cited paper
135. Topp, S.N., T.M. Pavelsky, X. Yang, E.H. Stanley C. G. Griffin, and M.R.V. Ross. 2021. Multi-decadal increases in U.S. lake water clarity. *Environmental Research Letters* 16: 055025. <https://doi.org/10.1088/1748-9326/abf002>
134. Welti, E.A.R., A. Joern, A.M. Ellison, D.C. Lightfoot, S. Record, N. Rodenhouse, E.H. Stanley, and M. Kaspari. 2021. Studies of insect temporal trends must account for the complex sampling histories inherent to many long-term monitoring efforts. *Nature Ecology and Evolution* 5: 589-591. <https://doi.org/10.1038/s41559-021-01424-0>
133. Lapierre, J.F., S.M. Collins, S.K. Oliver, T. Wagner, and E.H. Stanley. 2021. Inconsistent browning of Northeastern US lakes despite increased precipitation and recovery from acidification. *Ecosphere* 12:e03415. <https://doi.org/10.1002/ecs2.3415>
132. Jones, J.A., P.M. Groffman, J. Blair, F.W. Davis, H. Dugan, E.S. Euskirchen, S.D. Frey, T.K. Harms, E.L. Hinckley, M. Kosmala, S. Loberg, S. Malone, K. Novick, S. Record, A.V. Rocha, B. Ruddell, E.H. Stanley, C. Sturtevant, A. Thorpe, T. White, W.R. Wieder, L. Zhai, and K. Zhu. 2021. Synergies among environmental science research and monitoring networks: research agenda. *Earth's Future* 9: e2020EF001631. <https://doi.org/10.1029/2020EF001631>
131. Cowles, J., L. Templeton, J.J. Battles, P.J. Edmunds, R.C. Carpenter, S.R. Carpenter, M.P. Nelson, N.L. Cleavitt, T.J. Fahey, P.M. Groffman, J.H. Sullivan, M.C. Neel, G.J.A. Hansen, S. Hobbie, S.J. Holbrook, C.E. Kazanski, E.W. Seabloom, R.J. Schmitt, E.H.

- Stanley, A.J. Tepley, N.S. van Doorn, and M.J. Vander Zanden. 2021. Ecosystem trajectories, resilience, and the state of our future Earth: Insight from the U.S. LTER Network. *Ecosphere* 12:e03434. <https://doi.org/10.1002/ecs2.3434>
130. Blackburn, S.R. and E.H. Stanley. 2021. Floods increase carbon dioxide and methane fluxes and concentrations in agricultural streams. *Freshwater Biology* 66:62-77. <https://doi.org/10.1111/fwb.13614>
129. Matsuzaki, S.I., R.C. Lathrop, S.R. Carpenter, J.R. Walsh, M.J. Vander Zanden, M.R. Gahler, and E.H. Stanley. 2021. Climate and food web effects on the spring clear-water phase in two north-temperate eutrophic lakes. *Limnology and Oceanography* 66: 30-46. <https://doi.org/10.1002/lno.11584>
128. Schliep, E.M., S.M. Collins, S. Rojas Salazar, N.R. Lottig, and E.H. Stanley. 2020. Data fusion model to identify environmental drivers and improve estimation of total nitrogen in lakes. *Annals of Applied Statistics* 14:1651-1675. <https://doi.org/10.1214/20-OAS1371>
127. Mooney, R.J., E.H. Stanley, W. Rosenthal, P.C. Esselman, A.D. Kendall, and P.B. McIntyre. 2020. A day in the life of a Great Lake: Outsized contributions from small tributaries. *Proceedings of the National Academy of Sciences* 117:28175-28182. <https://doi-org.ezproxy.library.wisc.edu/10.1073/pnas.200137611>
126. Baldocchi, A.K., D.E. Reed, L.C. Loken, E.H. Stanley, H. Huerd, and A.R. Desai. 2020. Comparing spatial and temporal variation of lake-atmosphere carbon dioxide fluxes using multiple methods. *Journal of Geophysical Research-Biogeosciences* 125: e2019JG0056231. <https://doi.org/10.1029/2019JG005623>
125. Zhang, L., X. Xia, S. Liu, S. Zhang, J. Wang, S. Li, G. Wang, H. Gao, Z. Zhang, W. Wen, Q. Wang, R. Liu, Z. Yang, E.H. Stanley, and P.A. Raymond. 2020. Significant methane ebullition from alpine permafrost rivers on the East Qinghai-Tibet Plateau. *Nature Geoscience* 13:349-354. <https://doi.org/10.1038/s41561-020-0571-8>
124. Carpenter, S.R., B.M.S. Arani, P.C. Hanson, M. Scheffer, E.H. Stanley, and E. van Nes. 2020. Stochastic dynamics of Cyanobacteria in long-term high-frequency observations of a eutrophic lake. *Limnology and Oceanography Letters* 5:331-336. <https://doi.org/10.1002/lol2.10152>
123. Stanley, E.H., Rojas Salazar, S., N.R. Lottig, E.M. Schliep, C.T. Filstrup, and S.M. Collins. 2019. Comparison of total nitrogen data from direct and Kjeldahl-based approaches in integrated datasets. *Limnology and Oceanography: Methods* 17:639-649. <https://doi.org/10.1002/lom3.10338>
122. Loken, L.C., J.T. Crawford, P.J. Schramm, P. Stadler, and E.H. Stanley. 2019. Large spatial and temporal variability of carbon dioxide and methane in a eutrophic lake. *Journal of Geophysical Research – Biogeosciences* 124: 2248–2266. <https://doi.org/10.1029/2019JG005186>
121. Stanley, E.H., S.M. Collins, N.R. Lottig, S.K. Oliver, K.E. Webster, K.S. Cheruvilil, and P.A. Soranno. 2019. Biases in lake water quality sampling and implications for macroscale research. *Limnology and Oceanography* 64: 1572-1585. <https://doi.org/10.1002/lno.11136>
120. Stadler, P., L.C Loken, J.T. Crawford, P.J. Schramm, K. Sorsa, C. Kuhn, D. Savio, R.G. Striegl, D. Butman, E.H. Stanley, A.H. Farneitner, and M. Zessner. 2019. Spatial patterns of enzymatic activity in large water bodies: ship-borne measurements of beta-D-glucuronidase activity as a rapid indicator of microbial water quality. *Science of the Total Environment* 651: 1742-1752. <https://doi.org/10.1016/j.scitotenv.2018.10.084>

119. Bertolet, B.L., J.R. Corman, N.J. Casson, S.D. Sebestyen, R.K. Kolka, and E.H. Stanley. 2018. Influence of soil temperature and moisture on the dissolved carbon, nitrogen, and phosphorus in organic matter entering lake ecosystems. *Biogeochemistry* 139: 293-305. <https://doi.org/10.1007/s10533-018-0469-3>
118. Loken, L.C., J.T. Crawford, M.M. Dornblaser, R.G. Striegl, J.N. Houser, P.A. Turner, and E.H. Stanley. 2018. Limited nitrate retention capacity in the Upper Mississippi River. *Environmental Research Letters* 13: 074030. <https://doi.org/10.1088/1748-9326/aacd51>
117. Appling, A., J. Read, L. Winslow, M. Arroita, E. Bernhardt, N. Griffiths, R. Hall, J. Harvey, J. Heffernan, E. Stanley, E. Stets, and C. Yackulic. 2018. The metabolic regimes of 356 U.S. rivers. *Scientific Data* 5: 180292. <https://doi.org/10.1038/sdata.2018.292>
116. Dornelas, M., L.H. Antao, F. Moyes, A.E. Bates, A.E. Magurran, and BioTIME consortium (200+ authors including E.H. Stanley). 2018. BioTIME: a database of biodiversity time-series for the Anthropocene. *Global Ecology and Biogeography* 27: 760-786. <https://doi.org/10.1111/geb.12729>
*ISI Highly cited paper
115. Corman, J.R., B.L. Bertolet, N.J. Casson, S.D. Sebestyen, R.K. Kolka, and E.H. Stanley. 2018. Nitrogen and phosphorus loads to temperate seepage lakes associated with allochthonous dissolved organic carbon loads. *Geophysical Research Letters* 45: 5481-5490. <https://doi.org/10.1029/2018GL077219>
114. Bernhardt, E.S., J.B. Heffernan, N.B. Grimm, E.H. Stanley, J.W. Harvey, M. Arroita, A.P. Appling, M.J. Cohen, W.H. McDowell, R.O. Hall, J.S. Read, B.J. Roberts, and E.G. Stets. 2018. The metabolic regimes of flowing waters. *Limnology and Oceanography* 63: S99-S118. <https://doi.org/10.1002/lno.10726>
*ISI Highly cited paper
113. Filstrup, C.T., T. Wagner, S.K. Oliver, C.A. Stow, K.E. Webster, E.H. Stanley, and J.A. Downing. 2018. Evidence for regional nitrogen stress on lake phytoplankton biomass across large landscape and climate gradients. *Limnology and Oceanography* 63: S324-S339. <https://doi.org/10.1002/lno.1074>
112. Golub, M., A.R. Desai, G.A. McKinley, C.K. Remucal, and E.H. Stanley. 2017. Large uncertainty in estimating pCO₂ from carbonate equilibria in lakes. *Journal of Geophysical Research Biogeosciences* 122: 2909-2924. <https://doi.org/10.1002/2017JG003794>
111. Lottig, N.R., P.-N. Tan, T. Wagner, K.S. Cheruvilil, P.A. Soranno, E.H. Stanley, C.E. Scott, C.A. Stow, and S. Yuan. 2017. Macroscale patterns of synchrony identify complex relationships among spatial and temporal ecosystem drivers. *Ecosphere* 8: e 02024. <https://doi.org/10.1002/ecs2.2024>
110. Powers, S.M., H.M. Baulch, S.E. Hampton, S.G. Labou, N.R. Lottig, and E.H. Stanley. 2017. Nitrification contributes to winter oxygen depletion in seasonally frozen forested lakes. *Biogeochemistry Letters* 136: 119-129. <https://doi.org/10.1007/s10533-017-0382-1>
109. Powers, S.M., S.G. Labou, H.M. Baulch, R.J. Hunt, N.R. Lottig, J.F. Walker, S.E. Hampton, and E.H. Stanley. 2017. Ice duration drives winter nitrate accumulation in north temperate lakes. *Limnology and Oceanography Letters* 2: 177-186. <https://doi.org/10.1002/lol2.10048>
108. Butitta, V.L., S.R. Carpenter, L.C. Loken, M.L. Pace, and E.H. Stanley. 2017. Spatial early warning indicators in a lake manipulation. *Ecosphere* 8: e01941. <https://doi.org/10.1002/ecs2.1941>

107. Oliver, S.K., S.M. Collins, P.A. Soranno, T. Wagner, E.H. Stanley, J.R. Jones, C.A. Stow, N.R. Lottig. 2017. Unexpected stasis in a changing world: Lake nutrient and chlorophyll trends since 1990. *Global Change Biology* 23: 5455-5467. <https://doi.org/10.1111/gcb.13810>
106. Crawford, J. T., L.C. Loken, W.E. West, B. Crary, S.A. Spawn, N. Gubbins, S.E. Jones, R.G. Striegl, and E.H. Stanley. 2017. Spatial heterogeneity of within-stream methane concentrations. *Journal of Geophysical Research Biogeosciences* 122: 1036-1048. <https://doi.org/10.1002/2016JG003698>
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27. Freeman, R.E., E.H. Stanley, and M.G. Turner. 2003. Analysis and conservation implications of landscape change in the floodplain of the Wisconsin River, USA. *Ecological Applications* 13: 416-431. [https://doi.org/10.1890/1051-0761\(2003\)013\[0416:AACIOL\]2.0.CO;2](https://doi.org/10.1890/1051-0761(2003)013[0416:AACIOL]2.0.CO;2)
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9. Stanley, E.H., S.G. Fisher, and N.B. Grimm. 1997. Ecosystem expansion and contraction in streams. *BioScience* 47: 427-436. <https://doi.org/10.2307/1313058>
8. Stanley, E.H. and A.J. Boulton. 1995. Hyporheic processes during flooding and drying in a Sonoran Desert stream. I. Hydrologic and chemical dynamics. *Archiv für Hydrobiologie* 134: 1-26.
7. Boulton, A.J. and E.H. Stanley. 1995. Hyporheic processes during flooding and drying in a Sonoran Desert stream. II. Faunal dynamics. *Archiv für Hydrobiologie* 134: 27-52.
6. Stanley, E.H., D.L. Buschman, A.J. Boulton, N.B. Grimm, and S.G. Fisher. 1994. Invertebrate resistance and resilience to intermittency in a desert stream. *American Midland Naturalist* 131: 288-300. <https://doi.org/10.2307/1467688>
5. Stanley, E.H. and A.J. Boulton. 1993. Hydrology and the distribution of hyporheos: perspectives from a mesic river and a desert stream. *Journal of the North American Benthological Society* 12: 79-83. <https://doi.org/10.2307/1467688>
4. Stanley, E.H., R.A. Short, J.W. Harrison, R. Hall, and R.C. Wiedenfeld. 1990. Variation in nutrient limitation of lotic and lentic algal communities in a Texas (USA) river. *Hydrobiologia* 206: 61-71. <https://doi.org/10.1007/BF00018970>

3. Valett, H.M., S.G. Fisher, and E.H. Stanley. 1990. Physical and chemical characteristics of the hyporheic zone of a Sonoran Desert stream. *Journal of the North American Benthological Society* 9: 201-215. <https://doi.org/10.2307/1467584>
2. Stanley, E.H. and R.A. Short. 1988. Temperature effects on warmwater stream insects: a test of the Thermal Equilibrium Hypothesis. *Oikos* 52: 313-320. <https://doi.org/10.2307/3565312>
1. Short, R.A., E.H. Stanley, J.W. Harrison, and C.E. Epperson. 1987. Production of *Corydalus cornutus* (Megaloptera) in four streams differing in size, flow, and temperature. *Journal of the North American Benthological Society* 6: 105-114.

Books

Jones, J.B. and E.H. Stanley, editors. 2016. *Streams in a Changing Environment*. Academic Press/Elsevier, London.

Book chapters and conference proceedings

17. Jones, J.B. and E.H. Stanley 2016. Synthesis and conclusions. Pages 525-533 in J.B. Jones and E.H. Stanley, editors. *Streams in a Changing Environment*. Academic Press/Elsevier, London. <https://doi.org/10.1016/B978-0-12-405890-3.00013-0>
16. Stanley, E.H., R.A. Sponseller, and J.B. Heffernan. 2016. Landscape and regional stream ecology. Pages 389-415 in J.B. Jones and E.H. Stanley, editors. *Streams in a Changing Environment*. Academic Press/Elsevier, London. <https://doi.org/10.1016/B978-0-12-405890-3.00009-9>
15. Stanley, E.H. 2020. Understanding the ecological effects of dams. Pages 253-258 in K.C. Weathers, D.L. Strayer, and G.E. Likens, editors. *Fundamentals of Ecosystem Science*. Academic Press.
14. Stanley, E.H. 2009. Lake levels and drought indices in northern Wisconsin: data, graphs, and photographs. Ecological Society of American EcoEd Digital Library, Ecological Society of America. <http://ecoed.esa.org/>
13. Turner, M.G., E.H. Stanley, M. Bürgi and D.J. Mladenoff. 2008. Changes in the Wisconsin River and its floodplain. Pages 229-249 in D. M. Waller and T. P. Rooney, editors. *The vanishing present: ecological change in Wisconsin*. University of Chicago Press.
12. Doyle, M.W. and Stanley, E. 2005. Stream ecosystem response to experimental dam removals. Pages 1-12 in G.E. Moglen (ed.), *Managing Watersheds for Human and Natural Impacts*: [https://doi.org/10.1061/40763\(178\)20](https://doi.org/10.1061/40763(178)20)
11. Doyle, M.W., E.H. Stanley, M.A. Luebke, and J.M. Harbor. 2000. Dam removal: physical, biological, and societal considerations. American Society of Civil Engineering Joint Conference on Water Resources Engineering and Water Resources Planning and Management, Minneapolis, MN.
10. Stanley, E.H. and A.J. Boulton. 2000. River size as a factor in conservation. Pages 403-413 in P.J. Boon, B.R. Davies, and G.E. Petts (eds.), *Global perspectives on river conservation: science, policy, and practice*. John Wiley and Sons.
9. Boulton, A.J. F. Sheldon, M.C. Thoms, and E.H. Stanley. 2000. Problems and constraints in managing rivers with contrasting flow regimes. Pages 415-430 in P.J. Boon, B.R. Davies, and G.E. Petts (eds.), *Global perspectives on river conservation: science, policy, and practice*. John Wiley and Sons.

8. Stanley, E.H. and J.B. Jones, Jr. 2000. Surface-subsurface interactions: past, present, and future. Pages 405-417 in J.B. Jones, Jr. and P.J. Mulholland (eds.), *Streams and Groundwater*. Academic Press.
7. Ward, A.K., J. Randle, and E. Stanley 2000. What is the fate of alder-derived nitrogen in a lotic wetland? *Internationale Vereinigung für Theoretische und angewandte Limnologie Verhandlungen* 27: 1640.
6. Stanley, E.H., E.C. Barrett, and A.K. Ward. 1998. Methane efflux through *Nymphaea*: potential effects of leaf damage and leaf age. *Internationale Vereinigung für Theoretische und angewandte Limnologie Verhandlungen* 26: 1882-1885.
5. Boulton, A.J., E.H. Stanley, S.G. Fisher, and P.S. Lake. 1992. Over-summering strategies of macroinvertebrates in intermittent streams in Australia and Arizona. Pages 227-237 in R.D. Robarts and M.L. Bothwell (eds.), *Aquatic ecosystems in semi-arid regions: Implications for resource management*. NHRI Symposium Series 7, Environment Canada, Saskatoon, Saskatchewan.
4. Stanley, E.H. and S.G. Fisher. 1992. Intermittency, disturbance, and stability in stream ecosystems. Pages 271-280 in R.D. Robarts and M.L. Bothwell (eds.), *Aquatic ecosystems in semi-arid regions: Implications for resource management*. NHRI Symposium Series 7, Environment Canada, Saskatoon, Saskatchewan.
3. Stanley, E.H. and H.M. Valett. 1992. Interactions between drying and the hyporheic zone in a desert stream. Pages 234-249 in P. Firth and S.G. Fisher (eds.), *Global climate change and freshwater ecosystems*. Springer-Verlag, New York.
2. Valett, H.M., S.G. Fisher, N.B. Grimm, E.H. Stanley, and A.J. Boulton. 1992. Hyporheic-surface water exchange: implications for the structure and functioning of desert stream ecosystems. Pages 395-405 in J.A. Stanford and J.J. Simons (eds.), *Proceedings of the First Annual Conference on Groundwater Ecology*. American Water Resources Association, Bethesda, MD.
1. Grimm, N.B., H.M. Valett, E.H. Stanley, and S.G. Fisher. 1991. Contribution of the hyporheic zone to the stability of an arid-land stream. *Internationale Vereinigung für Theoretische und angewandte Limnologie Verhandlungen* 24: 1595-1599.

Non-peer-reviewed articles and reports

13. Stanley, E.H. and P.A. del Giorgio. 2018. Editorial: Towards an integrative, whole network approach to C cycling of inland waters. *Limnology and Oceanography Letters* 3: 39-40. <https://doi.org/10.1002/lol2.10085>
12. Stanley, E. and J. Vander Zanden. 2018. Steve Carpenter makes the move to “free range scientist.” *Bulletin of the Association for the Science of Limnology and Oceanography* 27: 23-24.
11. Lajtha, K., E. Bai, T. Baisden, A.A. Berhe, B. Bowden, J. Brookshire, E. Brzostek, S. Crow, C. Driscoll, C. Evans, J. Finlay, M. Fisk, S. Grandy, L. Hamdan, J. Harrison, C. Hawkes, K. Kalbatz, S. Kaushal, M. Kramer, E. Matzner, J. Melack, J. Mulder, S. Porder, J. Sanderman, E. Stanley, J. Tank, M. Vile, M. Voss, K. Wieder, and S. Ziegler. 2017. Brave New World. *Biogeochemistry* 133: 3-5.
10. Lottig, N., C.L. Hein, Z. Wu, B. Smail, E.G. Booth, P.F. Juckem, and E. Stanley. 2016. Linking groundwater and climate to understand long-term lake level fluctuations in Wisconsin. *Wisconsin Groundwater Research and Monitoring Reports*, DNR-228

9. Schimel, D., D.R. Strong, A.M. Ellison, D.P.C. Peters, S. Silver, E.A. Johnson, J. Belnap, A.T. Classen, T.E. Essington, A.O. Finley, B.D. Inouye, and E.H. Stanley. 2014. Editors are editors, not oracles. *Bulletin of the Ecological Society of America* 95: 342-346.
8. Hampton, S.E. and E.H. Stanley. 2013. Long-term perspectives on lake science and management. *Bulletin of the Association for the Science of Limnology and Oceanography* 22: 74-77.
7. Jansson, R., H. Backx, A.J. Boulton, M. Dixon, D. Dudgeon, F.M.R. Hughes, K. Nakamura, E.H. Stanley, and K. Tockner. 2005. Stating mechanisms and refining criteria for ecologically successful river restoration: a comment on Palmer *et al.* (2005). *Journal of Applied Ecology* 42: 218-222. <https://doi.org/10.1111/j.1365-2664.2005.01022.x>
6. Poff, N.L., E.H. Stanley, R.A. Abell, M.B. Bowman, C.A. Frissell, K. Groves, A.L. Harig, J.V. Higgins, and C.M. Pringle. Opportunities to incorporate science in freshwater conservation action and advocacy: the NABS-NGO dialogue. 2005. *Bulletin of the North American Benthological Society* 22:8-20.
5. Doyle, M.W., E.H. Stanley, and J.M. Harbor. 2003. Reply- Geomorphic analogies for assessing probable channel responses to dam removal. *Journal of the American Water Resources Association* 39: 1311-1312. <https://doi.org/10.1111/j.1752-1688.2003.tb03711.x>
4. Doyle, M.W., E.H. Stanley, J.M. Harbor, and G.S. Grant. 2003. Dam removal in the United States: emerging needs for science and policy. *Eos* 84: 29-36.
3. Stanley, E.H. 1999. For better or worse? Researching the effects of dam removal. *Water Power and Dam Construction*. September: 30-31.
2. Stanley, E.H. 1999. Book review of *Fresh Water*. *Trends in Ecology and Evolution* 14: 79-80.
1. Boulton, A.J. and E.H. Stanley. 1996. But the story gets bigger: subsurface invertebrates in stream ecosystems. *Trends in Ecology and Evolution* 11: 430. [https://doi.org/10.1016/0169-5347\(96\)81148-7](https://doi.org/10.1016/0169-5347(96)81148-7)

GRANTS AND CONTRACTS

- Wisconsin Department of Natural Resources- “Nitrogen Dynamics in the Yahara River Lakes” - \$49,989, Lead PI, 2026-2028
- University of Wisconsin STEM Funding Initiative- “Methane emission from Freshwaters” – \$1,000,000, Lead PI, 2023-2025.
- National Science Foundation- “LTER: Comparative study of a suite of lakes in Wisconsin”
 \$7,854,006 with supplements, Lead PI 2020-2026
 \$7,852,651 with supplements, Lead PI 2014-2020
 \$8,031,892 with supplements, Lead PI 2009-2014
 \$7,344,817 co-PI 2002-2008, 2009
- National Science Foundation- “Winter Instrumentation Limnology Lab at University of Wisconsin Trout Lake Station” - \$712,790. co-PI, 2021-2024
- University of Wisconsin 2020 WARF Discovery Initiative- “Full season science in the Northwoods” - \$188,908, co-PI, 2019-2021
- National Science Foundation- Ecosystem Studies: “Collaborative Research: Spatial dynamics, early warnings, and harmful algal blooms” - \$887,272 (lead institute- University of Virginia; UW portion: \$493,560). UW-Madison Lead PI, 2018-2023

National Science Foundation- Macrosystems Biology: “Collaborative Research: A macrosystems ecology framework for continental-scale prediction and understanding of lakes” - \$4,249,947 (lead institute- Michigan State University; UW portion: \$1,104,886). UW-Madison Lead PI, 2016-2023
 Non-Academic Research Internship for Graduate Students (INTERN) Supplement \$43,455, 2021

University of Wisconsin 2020 WARF Discovery Initiative: “Seeing the hydroscape: developing a new approach for the study of inland waters” - \$297,710. Lead PI, 2016-2017

Wisconsin Groundwater Coordinating Council: “Using climatic data and historic water levels from lakes, groundwater wells, and streams to model lake levels in Wisconsin” - \$107,770. co-PI, 2016-2019

U.S. Geological Survey: “Research assistant internship work at Trout Lake WEBB site” - \$45,444. Sole PI, 2015-2017

U.S. Geological Survey Powell Center: “Continental-scale overview of stream primary productivity, its links to water quality, and consequences for aquatic carbon biogeochemistry” - \$147,948 (UW portion \$131,759). co-PI, 2014-2016

U.S. Geological Survey Climate Science Center: “An integrated assessment of lake and stream thermal habitats under climate change” - \$150,000 (UW portion \$26,289). co-PI, 2015-2017

National Science Foundation- Macrosystems Biology: “Collaborative Research: Defining stream biomes to better understand and forecast stream ecosystem change” - \$4,482,660 (lead institute- Duke University; UW portion: \$312,501). UW Sole PI, 2015-2019

National Science Foundation- FSML: “Next-generation instrumented buoys for the University of Wisconsin Trout Lake Station” - \$211,562. co-PI, 2014-2016

Erb Family Foundation Subcontract from University of Wisconsin Milwaukee: “Urban Pollution Footprints on the Great Lakes” - \$52,374. Sole PI, 2014-2015

USDA Forest Service Research Joint Venture: “Assessing the susceptibility and resilience of lake chemistry to environmental change on the Chequamegon-Nicolet National Forest” - \$237,066. Sole PI, 2013-2018

U.S. Geological Survey: “Yukon Flats Carbon Dynamics” - \$41,527. Sole PI, 2012-2014

Wisconsin Sea Grant: “Landscape regulators of biogeochemical pattern and process in the Saint Louis River Estuary” - \$189,877 Lead PI, 2012-2013

National Science Foundation- Macrosystems Biology: “Collaborative Research: The effects of cross-scale interactions on freshwater ecosystem state across space and time” \$2,204,670 (UW portion: Lead PI, \$591,461). UW Lead PI, 2011-2016

Prairie Enthusiasts: “Water Resources Assessment of a Driftless Area creek that bisects the Mounds View Preserve and Landscape Scale Restoration Project” - \$4,800. Sole PI, 2011

U.S. Geological Survey: “Yukon Flats Carbon Dynamics” - \$46,031. Sole PI, 2010-2012

National Science Foundation- FSML: “Addition of a medium-sized conference room to the University of Wisconsin Trout Lake Station” - \$343,000. co-PI, 2010-2012

National Science Foundation- FSML: “Improving the chemistry laboratory capabilities at the University of Wisconsin Trout Lake Station” - \$87,293. co-PI, 2008-2010

Wisconsin Groundwater Coordinating Council: “Occurrence and generation of nitrite in ground and surface waters in an agricultural watershed” - \$59,786. Sole PI, 2007-2010

United States Department of Agriculture- Cooperative State Research, Education, and Extension Service: “Effects of dam removal on nutrient retention in agriculturally dominated streams” - \$498,500. Lead PI, 2004-2009

National Science Foundation- FSML: “Increasing housing capacity at the University of Wisconsin Trout Lake Station” - \$282,000. co-PI, 2005-2007

Bradley Fund for the Environment: “Evaluating effects of floodplain restoration on nitrogen dynamics in the Baraboo River system” E.H. Stanley, 2003-2005, \$56,547

National Science Foundation: “Nitrogen loss and carbon use in a large river floodplain ecosystem” - \$575,000. Sole PI, 2003-2007
 REU Supplement - \$11,500. 2005
 Equipment Supplement - \$30,000. 2005

Wisconsin River Alliance: “Sediment management project” - \$20,000. Lead PI, 2001-2002

National Science Foundation: “Effects of dam removal on riverine habitats and nutrient retention” - \$99,999. Sole PI, 2001-2003

Bradley Fund for the Environment: “Baraboo River nitrogen reduction demonstration project” - \$20,000. Sole PI, 2002-2003

Bradley Fund for the Environment: “Baraboo River Floodplain Restoration - Water Quality Assessment” - \$35,000. Sole PI, 2000-2002

U.S. Geological Survey: “Inorganic carbon dynamics in Allequash Creek: ecological implications of subsurface-surface linkages” - \$24,509. Sole PI, 2000-2001

Wisconsin Department of Natural Resources: “Denitrification in headwater streams of the Mississippi River drainage” - \$22,298. Sole PI, 2000-2001

Sand County Foundation: “Wisconsin dam database project” - \$6,000. Sole PI, 2000

Bradley Fund for the Environment: “Sediment transport following small dam removal in the Baraboo River, Wisconsin” - \$25,000. Sole PI, 1999-2000

U.S. Geological Survey and National Institute for Water Resources: “Hydrology and biogeochemistry in the Wisconsin River floodplain: implications for riverine nitrogen loads” - \$43,498. Lead PI, 1999-2001

Environmental Protection Agency: “Ecological indicators for large river-floodplain landscapes” - \$677,351. co-PI, 1998-2001

Oklahoma State University Environmental Institute, Center for Water Research: “Sources and sinks for nitrogen and phosphorus in a tallgrass prairie watershed” - \$25,000. Sole PI, 1997-1998,

Oklahoma State University Environmental Institute, Center for Water Research: “An investigation of ecological characteristics of hyporheic zones in Oklahoma streams” - \$23,446. Sole PI, 1996-1997

INVITED SEMINARS/WEBINARS, KEYNOTES, AND PLENARY TALKS

- 2023 Eminent Ecologist speaker, Graduate Degree Program in Ecology, Colorado State University
Wisconsin Lakes and Rivers Partnership
- 2022 Biology Colloquium, University of Wisconsin-Madison
Keynote Speaker, Michigan Inland Lakes Convention
- 2021 Plenary Speaker, North American Lake Management Society Meeting
Midwest Glacial Lakes Partnership

- University of Minnesota Duluth- Water Resources Science Program
 Ramon Margalef Colloquia: A cross-system view of the biological C cycle in the
 Anthropocene, Institut de Ciències del Mar and the Centre de Recerca Ecològica i
 Aplicacions Forestals
- 2019 Keynote Speaker, University of Wisconsin-Madison Geospatial Summit
 Plenary Speaker, Great Plains Limnology Conference
 Davidson Award Lecture, Department of Biology, Baylor University
 Department of Earth Sciences, Uppsala University, Sweden
 Department of Biological Sciences, Michigan Technological University
 Department of Evolution, Ecology, and Organismal Biology, Ohio State University
 Wisconsin Institute of Discovery Crossroads of Ideas program
- 2018 University of Waterloo Water Institute, Waterloo, Ontario, Canada
- 2017 Aquatic Biology Group, Université du Québec à Montréal, Canada
 48th Binghamton Symposium: Resilience and Biogeomorphic Systems. Texas State
 University
 McMurdo LTER Annual Science Meeting, University of Colorado-Boulder
- 2016 Plenary Speaker, Association for the Science of Limnology and Oceanography Meeting,
 Santa Fe, NM
 Department of Forest and Wildlife Ecology, University of Wisconsin-Madison
- 2015 Physical Sciences Lab, University of Wisconsin-Madison, Stoughton, WI
 Department of Ecology and Genetics, Uppsala University, Sweden
 Gordon Research Conference on Catchment Science: Interactions of Hydrology, Biology,
 and Geochemistry, Andover, NH
- 2014 Keynote Speaker: Mississippi River Research Consortium, La Crosse, WI
 Swiss Academy of Sciences 194th Annual Congress: Celebration of the 100th Anniversary
 of the Swiss National Park. Lausanne, Switzerland
- 2012 Ecology, Evolutionary Biology, and Behavior Program, Michigan State University
- 2011 School of Life Sciences, Arizona State University
 Department of Natural Resource Ecology and Management, Iowa State University
 Plenary speaker- Wisconsin Lakes Convention Annual Meeting, Stevens Point, WI
- 2010 Freshwater Biological Association Second Freshwater Biology Summit: Achieving
 Ecological Outcomes: Aquatic Ecological Responses to Catchment Management.
 Windermere, Cumbria, UK
 Department of Biology, St. Olaf College
 Wisconsin Groundwater Coordinating Council, Madison, WI
- 2008 Plenary speaker, 56th Annual Meeting, North American Benthological Society, Salt Lake
 City, UT
 Program in Ecology, Duke University
- 2007 Plenary speaker, Wisconsin Wetlands Association 12th Annual Wetland Science Forum,
 La Crosse, WI
 Chaos and Complex Systems Seminar Series, University of Wisconsin-Madison
 Center for Sustainability and the Global Environment, University of Wisconsin-Madison
 Department of Biology, Wright State University
- 2006 Mississippi River/Gulf of Mexico Watershed Nutrient Task Force Science Symposium:
 Sources, Transport, and Fate of Nutrients in the Mississippi and Atchafalaya
 River Basins. Minneapolis, MN

- Department of Ecology and Evolutionary Biology, University of Minnesota
 Department of Biological Sciences, Kansas State University
 Biogeochemistry Program, Cornell University
- 2005 36th Binghamton Geomorphology Symposium: Geomorphology and Ecosystems.
 Buffalo, NY
 Kellogg Biological Station, Michigan State University
- 2004 Institute of Ecosystem Studies, Millbrook, NY
 Department of Biology, Grinnell College
 Second International Symposium on Riverine Landscapes: The Scientific Basis of
 Restoring Watercourses in Landscapes. Bredsel, Sweden
 Keynote speaker- Center for Riverine Science and Stream Re-naturalization: Conference
 on Assessing and Re-Naturalizing Streams Impacted by Dams and Dam Removal.
 University of Montana
 North/South Basin Summit: Market Incentives to Reduce Agricultural Nitrogen
 Discharge. Sand County Foundation, New Orleans, LA
- 2003 Hydrologic Sciences Group, University of California-Davis
 Northwest Fisheries Science Center, Seattle, WA
 Center for Sustainability and the Global Environment, University of Wisconsin-Madison
 Department of Geology, Indiana University-Purdue University at Indianapolis
- 2001 Plenary speaker- International Symposium on the Role of Drought in Aquatic Systems,
 Cooperative Research Center for Freshwater Ecology, New South Wales,
 Australia
 Department of Earth and Environmental Sciences, Lehigh University
 Department of Biology, Carlton College
 Department of Civil and Environmental Engineering, University of Wisconsin-Madison
- 2000 Department of Biology, University of Nevada-Reno
 Department of Biology, Virginia Tech University.
- 1999 Plenary speaker- Utah Wetlands and Riparian Center Second Annual Conference: Rivers,
 Dams, and the Future of the West, Salt Lake City, UT
- 1998 Upper Mississippi Research Group, U.S. Geological Survey, La Crosse, WI
- 1997 U.S. Environmental Protection Agency, Multi-regional meeting. St. Louis, MO
- 1996 Red River Chloride Control Project, Upper Red River Ecosystem Work Group,
 Indianahoma, OK
- 1995 Department of Zoology, University of Oklahoma
- 1993 Keynote speaker- America Fisheries Society, Alaska Chapter Annual Meeting, Fairbanks,
 AK

EDUCATIONAL ACTIVITIES

Classes Taught

University of Wisconsin-Madison:

Animal Biology

Limnology: Conservation of Aquatic Resources, Problems in Oceanography

Ecology of Streams and Rivers

Problems in Oceanography

Graduate seminars in Limnology

Oklahoma State University:

Introductory Biology

Limnology

Ecosystem Ecology

Stream Ecology

Undergraduate Independent Researchers/Research fellows

Nora Beckenmeyer, Brittini Bertolet, Barbara Birrittella, Colleen Flaherty, Jennifer Follstad, Ry Forseth, Paul Gabriel, Gretchen Gantz, Kevin Gauthier, Casey Hall, Ryan Hassemer, Alison Horne, Kathleen Huntley, Dustin Kincaid, Scott Kloehn, Steven Kroiss, Ally Kundinger, Tim Looney, Ben Lubbers, Declan McCormick, Emily McParlane, Bryce Milliken, Sean Moore, Madeline Muller, Kayla Olness, Nels Paulsen, James M. Raspanti, Olivia Sanderfoot, Natalie Schmer, Hailey Shanovich, Julia Sheahan, Seth Spawn, Jennifer Tennesen, Ethan Thomas, Gabrielle Valenti-Hein, Leah Vanden Busch, Grant Wickman, Tina Wisniewski, Paige Witek, Jennifer Zawacki

Graduate Student Independent Study

Hannah Agner- Water Resources Management M.S.

Undergraduate Thesis/Capstone Students

Allison Kundinger, Environmental Science, B.S. 2024

Sean Bertalot- Environmental Science, B.S. 2023

Kevin Gauthier Jr.- Environmental Science, B.S. 2020

Adam Rexroade- Conservation Biology, B.S. 2020

Quinn Gavin- Environmental Science, B.S. (with honors) 2019; recipient of UW-Madison Letters and Sciences Dean's Award

Nicholas Gubbins- Environmental Science, B.S. 2016

Greta Helmueller- Zoology, B.S. 2016

Robert A. Johnson- Zoology and Biological Aspects of Conservation, B.S. 2010

Sarah E. Zahn- Biology, B.S. (with honors) 2007

Scott R. Laeser- Biology B.S. 2004

Jeffrey R. Watters- Anthropology and Zoology, B.S. 2004

Suresh A. Sethi- Zoology, B.S. 2002

Aaron L. Thiel- Botany and Zoology, B.S. 2002

Michelle A. Luebke- Zoology, B.S. 2000

Graduate Students

-Student's current positions

Jaden Nguyen, Freshwater and Marine Sciences, M.S., *in progress*

Cheyenne Koran, Freshwater and Marine Sciences, M.S., *in progress*

Cody Quiroz, Freshwater and Marine Sciences, M.S., *in progress*

Cassandra Ceballos, Freshwater and Marine Sciences, Ph.D., *in progress*

Adrianna Gorsky, co-advisor, Freshwater and Marine Sciences, Ph.D., 2025

-Scientist, Stantec

David Ortiz, Freshwater and Marine Sciences, Ph.D., 2025

-Wisconsin Department of Natural Resources

Adam Rexroade, Freshwater and Marine Sciences, M.S. 2022

-*Ph.D. student, University of Darwin, Australia*
 Vincent L. Butitta, Freshwater and Marine Sciences, M.S. 2016, Ph.D. 2022
 -*Conservation Biologist, Washington Department of Fish & Wildlife*
 Caroline Gottschalk, Environment and Resources, M.S. 2021
 -*Professor, Department of English, University of Wisconsin-Madison*
 Robert J. Mooney, Zoology, Ph.D. 2020
 -*Assistant Research Scientist, Illinois Natural History Survey*
 Samuel R. Blackburn, Freshwater and Marine Sciences, M.S. 2019
 -*Data analyst, University of Wisconsin-Madison*
 Paul J. Schramm, Freshwater and Marine Sciences, M.S. 2018
 -*Research Specialist, University of Wisconsin-Madison Trout Lake Station*
 Julia Hart, co-advisor, Freshwater and Marine Sciences, M.S. 2017
 - *Strategy, Insights, and Planning Consultant, ZS Associates*
 Luke C. Loken, Freshwater and Marine Sciences, M.S. 2014, Ph.D. 2018
 -*Hydrologist, USGS*
 Samantha K. Oliver, Freshwater and Marine Sciences, Ph.D. 2016
 -*Hydrologist, USGS*
 John T. Crawford, Freshwater and Marine Sciences, M.S. 2012; Ph.D. 2014
 -*Water Resources Administrator, The Consolidated Mutual Water Company*
 Luke A. Winslow, co-advisor, Freshwater and Marine Sciences, Ph.D. 2014
 -*Data Scientist, Wayfair.com*
 Stephen M. Powers, Limnology and Marine Sciences M.S. 2008; Ph.D. 2012
 -*Assistant Professor, Baylor University*
 Noah R. Lottig, Limnology and Marine Sciences, Ph.D. 2009
 -*Associate Research Scientist, Trout Lake Station, UW-Madison*
 Matthew R. Fuller, co-advisor, Zoology, M.S., 2009
 -*Research Ecologist, U.S. Forest Service*
 Abigail S. Popp, Limnology and Marine Sciences, M.S. 2005
 -*Consultant, Operational Risk Group*
 Kristy L. Rogers, Limnology and Marine Sciences, M.S. 2005
 -*Manager, Systems Engineering and Operations, University of Wisconsin System*
 Cailin H. Orr, Limnology and Marine Sciences, M.S. 2002; Ph.D. 2005
 -*Associate Director, Science Education Resource Center, Carleton College*
 Kenneth J. Forshay, Zoology, M.S. 2003
 -*Research Ecologist, US EPA*
 Jonathan L. West, Zoology, M.S. 2001
 - *Lake Monitoring Specialist, Oklahoma Water Resources Board*
 Ross E. Freeman, Conservation Biology and Sustainable Development, M.S. 2000
 - *City of Mercer Island Sustainability and Communications Manager*
 Gary W. Hunt, Ph.D., Zoology, 1999
 -*Retired*
 John J. Spranza II, M.S., Zoology, 1998
 - *Senior Aquatic Ecologist/Regulatory Specialist, HDR Inc.*
 W. Michael Mallett, M.S., Zoology, 1998
 - *Director of Upper School and Science Teacher, St. Stephens & St. Agnes School*

Post-doctoral Associates

Sarah M. Collins, 2016-2018

-Deceased

Jessica R. Corman, 2015-2017

-Associate Professor, University of Nebraska

Alison P. Appling, 2015-2016

-Data Scientist, Project Manager, USGS

Nora J. Casson, 2013-2014

-Associate Professor, University of Winnipeg

Noah R. Lottig, 2009-2013

-Associate Research Scientist, Trout Lake Station, UW-Madison

Helen M. Baulch, 2011

- Professor, University of Saskatchewan

Karen A. Wilson, 2002

-Associate Professor, University of Southern Maine

Jacques C. Finlay, 2000-2001

-Professor, University of Minnesota

Hojeong Kang, 1998-2000

-Professor, Yonsei University

Service on graduate committees, University of Wisconsin-Madison

Rich Bielfuss- Ph.D., Land Resources, 2001

Chris Harvey- Ph.D. Limnology and Marine Science, 2001

Sarah Gergel- Ph.D. Zoology, 2001

Jeff Houser- Ph.D. Zoology, 2001

Debbie Maurer- M.S Botany, 2001

Kurt Schoen- M.S., Civil and Environmental Engineering, 2001

Rebecca Derrig-Green Wassell M.S., Limnology and Marine Science, 2001

Brian Weigel- Ph.D., Zoology, 2001

Elena Bennett- Ph.D., Limnology and Marine Science, 2002

Simon Donner- Ph.D. Atmospheric and Oceanic Sciences, 2002

Martin Doyle- Ph.D. Earth and Atmospheric Sciences, Purdue University, 2002

Steven Gaffield- Ph.D. Geological Engineering, 2002

Steve Hoffman- Ph.D., Water Chemistry, 2002

Bruce Kahn- Ph.D.- Land Resources, 2002

Amina Pollard- Ph.D., Zoology, 2002

Karen Wilson, Ph.D., Zoology, 2002

Paul Hanson- Ph.D., Limnology and Marine Science, 2003

Jeff Schell- Ph.D. Zoology, 2003

Theo Willis- Ph.D., Zoology, 2003

Esther Aslum- M.S. Botany, 2004

Darren Bade- Ph.D., Limnology and Marine Science, 2004

Colleen Flaherty- M.S., Zoology, 2004

Patrick Gorski- Ph.D. Water Chemistry, 2004

Brack Hale- Ph.D., Land Resources, 2004

Sheri Moor- M.S.- Botany, 2004

Mark Nordheim- M.S., Atmospheric and Oceanic Sciences, 2004
Paula Allen- Ph.D., Zoology, 2005
Alison Colby- M.S. Zoology, 2005
Pascal Irmscher- M.S., Geography, 2005
Norman Mercado-Silva- Ph.D., Zoology, 2005
Hem Nalini Morzaria-Luna, - Ph.D. Botany, 2005
Katie Predick- M.S. Zoology, 2002, Ph.D. 2006
Adam Riggsbee- Ph.D., Environmental Sciences and Engineering, University of North Carolina,
2006
David Gilroy- M.S., Limnology and Marine Sciences, 2007
Jason Julian- Ph.D., Geography, University of North Carolina, 2007
Matt Diebel- Ph.D., Limnology and Marine Sciences, 2008
Annette Drewes- Ph.D., Conservation Biology and Sustainable Development, 2008
Chris Lowry- Ph.D., Geology and Geophysics, 2008
Amy Singler- M.S., Water Resources Management, 2008
Chris Solomon- Ph.D., Zoology, 2008
Colin Belby- Ph.D., Geography, 2009
Amy Kamarainen- Ph.D., Limnology and Marine Sciences, 2009
Gary Oates- Ph.D. Environment and Resources, 2009
Samantha Greene- Ph.D., Geography, 2010
Paul West- Ph.D., Limnology and Marine Sciences, 2010
Eric Booth- Ph.D., Limnology and Marine Sciences, 2011
Joel Cresswell- Ph.D., Environmental Chemistry and Technology, 2011
Jake Griffin- Ph.D., Zoology, 2011
Matt Kornis- Ph.D., Limnology and Marine Sciences, 2011
Patrick Robinson- Ph.D., Environment and Resources, 2011
Matt Van de Bogert- Ph.D., Limnology and Marine Sciences, 2011
Ben Lee- M.S., Civil and Environmental Engineering, 2012
Kristine Stepanuck- Ph.D., Environment and Resources, 2013
Ana Wells- Ph.D., Soil Sciences, 2013
Nathan Wells- M.S., Civil and Environmental Engineering, 2013
Evan Childress- Ph.D., Limnology and Marine Sciences, 2014
Aditya Singh- Ph.D., Forest and Wildlife Ecology, 2014
Jessie Conoway- Ph.D., Environment and Resources, 2015
Ben Kraemer- Ph.D., Zoology, 2015
Michael Braus- M.S., Environment and Resources, 2016
Zach De Quattro- Ph.D., Forest and Wildlife Ecology, 2016
Francis Eanes- Ph.D., Environment and Resources, 2016
Christina Herren- Ph.D., Freshwater and Marine Sciences, 2016
Jake Walsh- Ph.D., Zoology, 2016
Malgorzata Golub- Ph.D., Limnology and Marine Sciences, 2017
Etienne Fluet-Chouinard- Ph.D., Freshwater and Marine Sciences, 2018
Aaron Koning- Ph.D., Zoology, 2018
Noah Stern- Ph.D., Environmental Science and Technology, 2018
Sarah Fuller- M.S., Biological Systems Engineering- 2019
Robin Rohwer- Ph.D., Environmental Chemistry and Technology, 2019

Sarah Stevens- Ph.D., Bacteriology, 2019
Carolyn Voter- Ph.D., Civil and Environmental Engineering, 2019
Gavin Dehnert- Ph.D., Forest and Wildlife Ecology, 2020
Landon Falke- M.S., Freshwater and Marine Sciences, 2020
Martin Perales- Ph.D., Freshwater and Marine Sciences, 2020
Michael Spear- Ph.D., Freshwater and Marine Sciences, 2020
Emily Whitaker- M.S., Freshwater and Marine Sciences, 2020
Adrianna Gorsky- M.S., Freshwater and Marine Sciences, 2021
Linnea Rock- M.S. Freshwater and Marine Sciences, 2021
Ellen Albright- Ph.D., Freshwater and Marine Sciences- 2022
Holly Embke- Ph.D., Freshwater and Marine Sciences, 2022
Kristopher Kieft- Ph.D., Bacteriology, 2022
Ben Martin- Ph.D., Freshwater and Marine Sciences, 2022
Maggie Shaw- M.S., Freshwater and Marine Sciences, 2022
Mary Solokas- M.S., Freshwater and Marine Sciences, 2022
Daniel Trovillion- M.S., Freshwater and Marine Sciences, 2022
Jamie Botsch- Ph.D., Zoology, 2023
Reid Milstead- Ph.D., Environmental Chemistry and Technology, 2023
Jordan Richard- Ph.D., Freshwater and Marine Sciences, 2023
Patricia Tran- Ph.D., Freshwater and Marine Sciences, 2023
Jessica Turner- Ph.D., Freshwater and Marine Sciences, 2023
Hannah Agner, M.S., Water Resources Management 2024
Elliot Hendry- M.S., Freshwater and Marine Sciences, 2024
Meredith Laidy- M.S., NEIS Water Resources Management, 2024
Madeline Marti, M.S., Water Resources Management, 2024
Bennett McAfee, M.S., Freshwater and Marine Sciences, 2024
K. Riley Book- Ph.D., Integrative Biology, 2025
Jessica Briggs- M.S., Freshwater and Marine Sciences, 2025
Hannah Curtis- M.S., Civil and Environmental Engineering, 2025
Krys Kibler- Ph.D., Freshwater and Marine Sciences, 2025
Emma Blackford, Ph.D. Freshwater and Marine Sciences, *in progress*
Eric Kastelic- M.S. Geological Engineering, *in progress*
Katie Klier- Ph.D., Freshwater and Marine Sciences, *in progress*
Allison Kneisel- Ph.D., Integrative Biology, *in progress*
Keeley Kuru- Ph.D., Freshwater and Marine Sciences, *in progress*
Arielle Link- Ph.D., Integrative Biology, *in progress*
Catherine Polik, Ph.D., Ecology, Evolution, and Behavior, University of Minnesota, *in progress*
Melanie Martyn Rosco- Ph.D., Earth Sciences ,Vrije Universiteit, The Netherlands
Benjamin Saalidong- Ph.D., Yale University, *in progress*
Danny Syzdlowski- Ph.D., Freshwater and Marine Sciences, *in progress*

Other educational activities

Early Career Workshop Panelist, ASLO Annual Meeting- 2010, 2018, 2023
Career Development Workshop panelist- Earth Science Women's Network, 2012
Invited discussion leader for graduate workshop on successful grantsmanship- International Association of Landscape Ecology U.S. meeting, 2008

Executive committee member- “Human dimensions of social and aquatic system interactions”
National Science Foundation Integrative Graduate Education and Research Training
grant (IGERT), 1998-2002

Project Intermath Team Member (team development of interdisciplinary math exercises for
classroom use)- sponsored by the National Science Foundation and the U.S. Military
Academy), 1996-1998.

Ph.D. Opponent:
Department of Earth Sciences, Uppsala University, Sweden, 2019
Department of Ecology and Genetics, Uppsala University, Sweden, 2015
Department of Ecology and Environmental Science, Umeå University, Sweden, 2012

Dissertation Evaluation Board Member- Department of Thematic Studies – Environmental
Change, Linköping University, Sweden, 2022

External dissertation examiner:
Department of Thematic Studies-Environmental Change, Linköping University, Sweden
2022
Geosciences Program, Southern Cross University Australia, 2018
School of Biological, Earth, and Environmental Sciences, University of New South
Wales, Australia, 2018
Department of Earth and Environmental Sciences, University of Waterloo, Canada, 2016
School of Environmental Sciences, Charles Sturt University, New South Wales,
Australia, 2013
Department of Ecosystem Management, University of New England, Australia, 2005

OTHER PROFESSIONAL ACTIVITIES

Professional Society Memberships

American Geophysical Union
Association for the Sciences of Limnology and Oceanography
Ecological Society of America
International Society of Limnology- SIL
Society for Freshwater Science
Wisconsin Wetlands Association

Professional Society Elected Positions

Secretary, Biogeosciences Division, American Geophysical Union, 2008-2010
Member-at-Large, Ecological Society of America, 2008-2010
Aquatic Section Secretary- Ecological Society of America, 2001-2003
Member-at-Large, Madison Ecology Group, 2000-2002

Service to Professional Organizations (non-elected, non-editorial positions and activities)

Long-Term Ecological Research (LTER) Network

Co-Organizer, LTER mini-symposium at the National Science Foundation, 2015
Executive Board
2018-2021
2010-2013

National Ecological Observatory Network (NEON)

University of Wisconsin representative to NEON. 2013-2015
NEON Science and the Human Dimension Committee Member (Hydroecology sub-committee), 2004-2005

American Geophysical Union

Sulzman Award Committee, 2021-2022

Association for the Sciences of Limnology and Oceanography-

Awards and Citations Executive Committee, Hutchinson Subcommittee, 2019-present

Society for Freshwater Sciences (SFS)/North American Benthological Society (NABS)

Co-Chair, Meeting Organizational Committee, 2013-2015

Program committee member, SFS Annual meeting, 2011-2012

Executive Committee, 2005-2008

Award of Excellence and Distinguished Service Award Committee, 2000-2001

Committee chair, 2001

Environmental Stewardship Award Committee, 2003

Conservation and Environmental Issues Committee Co-Chair, 2002-2008

Human Resources Committee, 1996-1997

Ecological Society of America

Ecological Society of America Committee to evaluate proposals for Emerging Issues

Conference, 2010

Other organizations

Program committee member- North American Lake Management Society Annual Meeting, 2011-2012

Science Forum Advisory Board- Wisconsin Wetlands Association, 2007

Consortium of Universities for the Advancement of Hydrologic Science (CUAHSI)- Education and Outreach Committee, 2007

Program Planning Committee- Wisconsin River Alliance/Trout Unlimited Small Dam Removal Technical Conference, 2000-2001

Steering committee, 24th Annual Meeting, Great Plains Limnologists Society, Stillwater, OK, 1997

Journal Reviewing and Editing

Guest co-Editor, Special Issue on Phenology in Aquatic Ecosystems, *Limnology and Oceanography Letters* 2022-2024

Guest co-Editor, *Limnology and Oceanography Letters* Special Issue on Carbon Cycling in Inland Waters: Progress and Perspectives (Volume 3, Issue 3, 2018).

Associate Editor- *Limnology and Oceanography Letters*, 2015-present

Assigning Editor- *Ecological Applications*, 2010- 2018

Associate Editor- *Ecological Applications*, 2004-2010

Associate Editor- *Biogeochemistry*, 2015-2018

Associate Editor- *Marine and Freshwater Research*, 2008- 2013

Associate Editor- *Journal of Geophysical Research-Biogeosciences*, 2007-2009

Journal reviewer for: *Archiv für Hydrobiologie*, *Aquatic Biology*, *Aquatic Sciences*, *ASAE Transactions*, *Biogeochemistry*, *BioScience*, *Canadian Journal of Fisheries and Aquatic Sciences*, *Current Opinions in Environmental Sustainability*, *Earth System Science Data*, *Ecohydrology*, *Ecology*, *Ecology Letters*, *Ecological Applications*, *Ecological Monographs*, *Ecosphere*, *Ecosystems*, *Elementa*, *Environmental Biology of Fishes*,

Environmental Research Letters, Environmental Science & Technology, ES&T Water, Freshwater Biology, Freshwater Science, Frontiers in Ecology and the Environment, Geophysical Research Letters, Global Biogeochemical Cycles, Global Change Biology, Hydrobiologia, Journal of American Water Resources Association, Journal of Environmental Quality, Journal of Geophysical Research-Biogeosciences, Journal of Great Lakes Research, Journal of the North American Benthological Society, Limnology and Oceanography, Limnology and Oceanography Letters, Limnology and Oceanography Methods, Marine and Freshwater Research, Nature, Nature Climate Change, Nature Geoscience, PLoS ONE, Polar Research, Proceedings of the National Academy of Science, River Research and Applications, Science, Science Advances, Science of the Total Environment, Water Research, Water Resources Research

Proposal Reviewing

Panelist

National Science Foundation-Long Term Ecological Research site review panelist
2021 (chair)
2022

SESYNC-LTER post-doctoral fellowship competition, 2016

National Science Foundation-Long Term Ecological Research site review panelist
2015 (chair)

National Science Foundation-Long Term Ecological Research site review panelist, 2013

National Science Foundation Ecosystem Science full proposal competition, 2012

National Science Foundation Ecosystem Science pre-proposal competition, 2012

National Science Foundation Long Term Ecological Research competition, 2011

National Science Foundation-Long Term Ecological Research site review panelist, 2001

National Science Foundation Biocomplexity in the Environment: Coupled
Biogeochemical Cycles competition, 2001

National Science Foundation Integrative Graduate Education and Research Training
Grant competition, 1999

National Science Foundation Doctoral Dissertation Improvement Grants, 1995-1996

Ad hoc Proposal Reviews

National Science Foundation
Doctoral Dissertation Improvement Grants
Integrative Graduate Education and Research Traineeship program
Interdisciplinary Research and Education Program
Hydrologic Sciences
Critical Zone Observatories
Water Cycle Research; Geomorphology
Emerging Topics in Biogeochemical Cycles
Organisms & Ecosystems
Polar Programs
Geography and Regional Science
Chemical, Bioengineering, Environmental and Transport Systems
Chemical Oceanography
Biological Oceanography

Dynamic Data Driven Application Systems
 Biodiversity Surveys and Inventories
 Ecological and Evolutionary Physiology
 Ecology
 Ecosystem Science
 Long-Term Ecological Research
 International Research Fellows Program
 Microbial Observatories and Microbial Interactions and Processes
 Graduate Women in Science
 National Fish and Wildlife Foundation
 National Geographic Young Explorers
 National Institutes for Water Resources
 National Oceanic and Atmospheric Administration-Coastal Ocean Program
 Ohio Sea Grant
 CALFED
 Illinois Water Resources Center
 Iowa Water Center
 Minnesota Water Resources Center
 North Carolina Water Resources Research Institute
 Ohio Water Resources Center
 Oklahoma Water Resources Institute
 Wisconsin Water Resources Institute
 Natural Environment Research Council
 Discovery Science Standard Grant program
 Discovery Science Large Grant program
 Cooperative Research Centre for Freshwater Ecology (Australia)
 Fonds de la Recherche Scientifique (NSF equivalent agency for Belgium)
 Swedish Research Council
 Ruth Dickie Sigma Delta Epsilon Graduate Women in Science Research Scholarship
 Program
 University of Wisconsin-Madison Hatch Grant Program

Other Advisory and Evaluation Activities

Advisory Committee- Georgia Coastal Ecosystem Long-Term Ecological Research (GCE-
 LTER) site, 2025-present
 External Advisor- Aquatic N₂-Fixation Research Coordination Network, 2021-present
 Associate Professor Mentoring Committee- Department of Evolution, Ecology, and Organismal
 Biology, Ohio State University, 2024- present.
 Scientific Advisory Committee of the GRIL (Groupe de Recherche Interuniversitaire en
 Limnologie - the Interuniversity Research Group in Limnology), Quebec, Canada, 2023
 Jurist- Premi Ramon Margalef d'Ecologia (Ramon Margalef Prize in Ecology), Government of
 Catalonia, 2021-2023
 Scientific Advisory Committee- Carbon Biogeochemistry in Boreal Aquatic Systems (CarbBAS)
 Program, Université du Québec à Montréal, 2018
 National Research Council Committee on Hydrologic Sciences- 2005-2010
 NSF/EPSCoR Advisory Committee- University of New Mexico, 2010-2012

NSF/EPSCoR Advisory Committee- University of Wyoming, 2007- 2009
Committee of Visitors- National Science Foundation Ecology Program, 2002
Science Advisory Committee, The Nature Conservancy Emiquon Reserve Restoration Project, 2001-2002
Scientific Advisory Group member- Arid West Water Quality Research Project, Pima County Wastewater Management Department (funded by the U.S. Environmental Protection Agency), 1998-1999

Workshops and Working Group Participation

Methane Dynamics Across Freshwater Ecosystems

Workshop leader, June 2023

Aquatic working group, Global Carbon Budget/Global Methane Budget update, 2022-present
Presenter- Phenological Workshops for Indigenous Peoples in Limnology, Lac du Flambeau, WI, 2023

Discussion Panelist- Translational Data Analytics in Environment and Sustainability Research Fall Forum, Ohio State University, 2021

Co-organizer LTER cross-site working group on organic matter synthesis, 2018

Participant- LTER-NEON Synergies Working Group, 2015-2017

Co-organizer (co-PI)- U.S. Geological Survey Climate Science Center Working Group “An integrated assessment of lake and stream thermal habitats under climate change”, 2015-2017

Co-organizer (co-PI)- U.S. Geological Survey Powell Center Working Group “Continental-scale overview of stream primary productivity, its links to water quality, and consequences for aquatic carbon biogeochemistry”, 2014-2016

Steering Committee- National Center for Ecological Analysis and Synthesis Working Group: “Ecology under lake ice”, 2014-2015

Steering Committee- CUAHSI Interdisciplinary Working Group on Floodplain Science-, 2004
Participant, National Research Council - National Center for Earth-Surface Dynamics Planning Workshop on Stream Restoration, 2003

Participant- Heinz Center Dam Removal Research Workshop, 2002

Participant- Integrating Ecological and Geological Sciences Workshop- NSF-sponsored workshop, 2001

Working group member- Sediment management and dam removal- Wisconsin River Alliance, FishAmerica, EPA Office of Wetlands and Oceans, 2000

Participant- National Center for Ecological Analysis and Synthesis: “Managed Floods” Workshop, 2000

Participant- National Center for Ecological Analysis and Synthesis: “Freshwater and environmental change” Working Group member, 1999-2000

Participant- Experts Workshop: Osage Plains/Flint Hills ecoregion. Kansas, Missouri, and Oklahoma Chapters of the Nature Conservancy, 1998

Participant, Edwards Aquifer Biological Research Forum, Sponsored by the Nature Conservancy of Texas, 1994

Special Session Organization/Co-Organization at Scientific Meetings

From phosphorus to fish: celebrating the free-ranging career of Steve Carpenter. Association for the Sciences of Limnology and Oceanography Annual Meeting, Madison, WI 2024

Abrupt change in aquatic ecosystems. Association for the Sciences of Limnology and Oceanography Annual Meeting, Madison, WI 2024

Phenological change in aquatic ecosystems. Joint Aquatic Sciences Meeting, Grand Rapids, MI 2022

Drones reveal patterns in aquatic ecosystems using high-frequency sampling. Joint Aquatic Sciences Meeting, Grand Rapids, MI 2022

Instability of aquatic ecosystems in a changing world. ASLO-SFS, Madison, WI 2020 (cancelled)

Synthesizing across time: Bridging the gap between long-term and high frequency data. ASLO-SFS, Madison, WI 2020 (cancelled)

Metabolism of inland waters: patterns and drivers across multiple scales- Association for the Sciences of Limnology and Oceanography Winter Meeting, Honolulu, HI, 2017

Enough C plumbing: other biogeochemical cycles and coupled biogeochemical cycles from mountains to the sea- Association for the Science of Limnology and Oceanography Winter Meeting, Honolulu, HI, 2017

Supporting data-intensive freshwater and marine research through integrated informatics, databases, networks, and open science- Association for the Science of Limnology and Oceanography Winter Meeting, Honolulu, HI, 2017

Ecology under lake ice- Association for the Science of Limnology and Oceanography Summer Meeting, Santa Fe, NM, 2016

Long-term perspectives on lake research and management- Association for the Sciences of Limnology and Oceanography Aquatic Sciences Meeting, New Orleans, LA 2013

Assessing the role of hydrologic variability in stream nutrient processing and transport- American Geophysical Union Winter Meeting, San Francisco, CA, 2011

Agricultural streams- American Society of Limnology and Oceanography Annual Meeting, St. John, Newfoundland, 2008

Lakes, streams, groundwater and wetlands in the landscape: Linkages among freshwater systems- 30th Congress of the International Association of Theoretical and Applied Limnology, 2007

Scales of restoration and ecosystem response- American Geophysical Union Winter Meeting, San Francisco, CA, 2005

Surface water-groundwater interactions in floodplains- American Society of Limnology and Oceanography Winter Meeting, Salt Lake City, UT, 2005

Ecological effects of dam removal- 49th annual meeting, North American Benthological Society, LaCrosse, WI, 2001.

Nitrogen cycling in large rivers- 49th annual meeting, North American Benthological Society, LaCrosse, WI, 2001

Selected Outreach Presentations and Activities

Multiple interactions/interviews with journalists, media outlets including Wisconsin Public Radio, WORT, Cap Times, Wisconsin State Journal, Milwaukee Journal Sentinel, AP, New York Times, National Geographic News, NOVA Next, WISC-TV Madison

UW-Madison Grandparents University instructor, 2025

Yahara Lakes Association Learning by the Lake Series presenter, 2024

Clean Lakes Alliance Yahara Watershed Academy field trip leader, 2017

University of Wisconsin Grandparents University instructor, 2016

Clean Lakes Alliance Yahara Lakes 101 Speaker, 2014
 Minocqua Science on Tap speaker, Minocqua, WI, 2014
 Institute for Journalism & Natural Resources field trip speaker, 2011, 2012
 Congressional briefing speaker- Using Science to Improve Floodplain Management- sponsored by the Ecological Society of America, 2011
 Congressional visits to offices of Sens. Herb Kohl, Robert Johnson, and Rep. Reid Ribble, 2011
 Madison Science Pub speaker, 2011
 Presentation to the Crawling Stone Lake Association, Vilas County WI, 2010
 Presentation to the Black Earth Creek Watershed Association and Village of Mazomanie Information Meeting on Lake Marion- May 2008
 Expert witness- Town of Magnolia, WI. In a case of evaluating a conditional use permit for dairy farm citing, 2007
 Participant- Consortium for National Science Funding “Science on the Hill” day on behalf of the American Society for Limnology and Oceanography (speaking with staff members from Rep. T. Baldwin, Rep. M. Green, Sen. H. Kohl, and Sen. R. Feingold’s offices to support funding for the National Science Foundation), 2006
 Aldo Leopold Foundation, Potter Preserve Planning Committee member, 2000
 Presenter- Town of LaValle Wisconsin Department of Natural Resources Public hearing regarding removal of the LaValle Millpond Dam, 1999

Selected University Service Activities

Cross-Campus

Advisory Board, Physical Sciences Laboratory, 2025-
 Search Committee- Director, Wisconsin Aquatic Sciences Center, 2024
 Nelson Institute for Environmental Studies
 Water Resources Management Program
 Admissions Review Committee, 2019
 Workshop Selection Committee, 2008
 Program Committee, 2004-2006
 Search and Screen Committee for Director of the Nelson Institute for Environmental Studies, 2007-2008
 Search Committee- Forestry and Wildlife Ecology, 2022-2023
 Search Committee- Assistant Director for Research and Student Engagement Hire for Wisconsin Sea Grant and the Water Resources Institute, 2014
 Search Committee- Director, Wisconsin Aquatic Sciences Center, 2011-12
 Search and Screen Committee for faculty position, Environmental Chemistry and Technology Program/Department of Civil Engineering, 2007-2008
 Junior faculty mentor, Department of Bacteriology, 2019-2023
 Biological Sciences Names Professorship Committee, 2019-2020
 UW2020 Research Proposal Review Committee, 2018, 2020
 Search Committee- Associate Vice Chancellor for Research in the Biological Sciences, 2018
 Search and Screen Committee for Director of the Physical Sciences Laboratory, 2016
 UW Arboretum Committee, 2005-2007

College of Letters and Sciences

Ten-Year Review Committee of the Conservation Biology Major, 2017

Search Committee- Trout Lake Station Director, 2017-2018
Faculty Appeals multiple semesters since 2005
Department of Zoology/Integrative Biology
Budget and Strategic Planning Group, 2023-present
Awards committee, 2021-2023
Junior faculty mentor, 2010-2014, 2018-2022
Promotion review, post-tenure review committees 2018, 2020, 2025
Faculty search committees, 1999-2000, 2009-2010, 2016-2017 (co-chair), 2019-2020
(co-chair), 2024-2025 (tentative)
Graduate Admissions Chair, 1998-2017
Zoology Museum Review Committee, 2005