

George W. Kling, *CV Summary* (Full CV following)

Research Publications: (125+ total)

Highlighted (lead or corresponding author on 9 of the following):

<i>Science</i> 236:169	<i>Nature</i> 337:215	<i>Nature Communications</i> 8:772
<i>Science</i> 237:1022	<i>Nature</i> 348:201	<i>PNAS</i> 102:14185
<i>Science</i> 251:298	<i>Nature</i> 368:405	<i>PNAS</i> 110:3429
<i>Science</i> 265:1568	<i>Nature</i> 408:149	<i>PNAS</i> 115:3
<i>Science</i> 345:925	<i>Nature</i> 551:457	

External Awards:

- Fellow of the American Association for the Advancement of Science, 1997 – .
- U. S. National Science Foundation Presidential Faculty Fellow, 1995 – 2000.
- U. S. National Academy of Sciences Young Investigator Award, 1993 - 1994.
- Republic of Cameroon, Presidential Medal for Service (disaster reduction), 2016.
- United Nations Sasakawa Award, Certificate of Merit for Disaster Reduction, Nyos-Monoun Degassing Program, (as Chair of Advisory Committee), 2001.
- Association for the Sciences of Limnology and Oceanography, John H. Martin Award, 2016.
- Association for the Sciences of Limnology and Oceanography, Ruth Patrick Award, 2007.

Grants:

- *Total:* 40 awards (34 NSF, plus EPA, NASA, USAID, Hewlett Foundation, National Geographic Society)
- *Current:* 4 NSF, 1 NASA
- *Amount:* \$53,370,000 total awarded; \$13,078,000 to Kling

Teaching and Mentoring:

- 10 separate courses taught (not including seminars)
- Chair of 10 Ph.D., 6 M.S.; Committee member of 30 Ph.D., 4 M.S., 6 Honors Theses
- 29 students supervised for undergraduate research (15 by NSF-REU funding)
- Grant funding from NSF and the Hewlett Foundation to develop an undergraduate curriculum development testbed, and for developing the first academic minor at U of M

Outreach (published or broadcast interviews about my research):

- 300+ articles (*e.g.*, *National Geographic*, *Smithsonian*, *Discover*, *GEO*, *World Book*, *Science News*, *NSF Frontiers*, *New York Times*, *BBC News*, *New Scientist*, *Economist*)
- 13 articles in *Science* and *Nature*
- 8 television films (*BBC*, *National Geographic*, *Discovery Channel*, *PBS*, *History Channel*, *Learning Channel*, *Weather Channel*)
- 25 T.V. and radio broadcasts (*ABC*, *NBC*, *CBS*, *CNN*, *NPR*, *BBC*, *etc.*)
- Numerous engagements with members of Congress concerning legislation on energy policy, climate change, and the integrity and use of science in government

Service and Administration:

- *Chair*, International Advisory Group on the Nyos-Monoun Degassing Project, 1995 – 2016
- *Associate Chair*, Department of Ecology and Evolutionary Biology, University of Michigan, 2008 – 2011
- *Vice Chair*, Science Steering Committee, NSF Division of Polar Programs, SEARCH, 2018 –
- *National Representative*, International Society of Limnology (SIL), Elected 2007 – 2009
- Associate Editor for *Limnology and Oceanography*, 2001 – 2015
- Associate Editor for *Arctic, Alpine, and Antarctic Research*, 2019 –

CURRICULUM VITAE

updated September 2019

George W. Kling

Professor

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Education:

Ph.D., 1988. Duke University, Department of Zoology, Durham, NC. (D. A. Livingstone, major advisor, W. H. Schlesinger, minor advisor)

B.A., 1982. University of Colorado, Department of Environmental, Population, & Organismic Biology, Boulder, CO (W. M. Lewis, advisor)

Positions Held (since 1988):

Professor, 2003 to present, Department of Ecology and Evolutionary Biology, University of Michigan.

Associate Chair, 2008-2011, Department of Ecology and Evolutionary Biology, University of Michigan.

Associate Professor, 1997 to 2002, Department of Biology, University of Michigan.

Assistant Professor, 1991 to 1997, Department of Biology, University of Michigan.

Research Scientist, 1991 to 2002, Center for Great Lakes and Aquatic Sciences, University of Michigan.

Research Associate, 1990 to 1991, The Ecosystems Center, Marine Biological Laboratory, Woods Hole, MA.

Postdoctoral Fellow, 1988 to 1990, The Ecosystems Center, Marine Biological Laboratory, Woods Hole, MA (J. E. Hobbie, advisor).

Awards:

Fellow of the American Association for the Advancement of Science, 1997 - .

U. S. National Science Foundation Presidential Faculty Fellow, 1995 - 2000.

U. S. National Academy of Sciences Young Investigator Award, 1993 - 1994.

Association for the Sciences of Limnology and Oceanography, John H. Martin Award, 2016.

Association for the Sciences of Limnology and Oceanography, Ruth Patrick Award, 2007.

Republic of Cameroon, Presidential Medal for Service (disaster reduction), 2016.

United Nations Sasakawa Award, Certificate of Merit for Disaster Reduction, Nyos-Monoun Degassing Program, (as Chair of Advisory Committee), 2001.

The Geochemical Journal Award, Most Outstanding Paper, 2009.

University of Michigan, Robert G. Wetzel Collegiate Chair, 2009 - 2019.

University of Michigan Distinguished Faculty, 2005 - .

University of Michigan Faculty Recognition Award, 1999.

University of Michigan Excellence in Research Award, 1997.

Grants:

Current:

- NSF - DEB 1754835. " Collaborative Research - Coupled biological and photochemical degradation of dissolved organic carbon in the Arctic "; Co-PI with B. Crump, R. Cory, \$1.101 million (\$321K to Kling), 2018-2021.
- NSF - DEB 1637459. "Arctic LTER: Climate Change and Changing Disturbance Regimes in Arctic Landscapes"; Co-PI with E. Rastetter et al., \$6.762 million (\$1.004M to Kling), 2017-2022.
- NSF - ARC 1504006. "Carbon, Water, and Energy Balance of the Arctic Landscape at Flagship Observatories in Alaska and Siberia"; Co-PI with D. Bret-Harte, E. Rastetter, (\$79K to Kling), 2015-2019.
- NSF - OCE 1736629. "The role of heterotrophic bacteria in protecting cyanobacteria from hydrogen peroxide in coastal ecosystems"; Co-PI with G. Dick, R. Cory, \$876K, 2018-2020.
- NASA - 17-THP17-0018, UTA18-000984. "Advancing InSAR Technology for Monitoring and Prediction of the Hydrologic State of Permafrost Terrain in the Arctic"; Co-PI with A. Chen and B. Cardenas, \$518K (\$130K to Kling), 2018-2020.

Past:

- NSF - DEB 1147378. "LTREB Renewal: Collaborative research: What controls long-term changes in freshwater microbial community composition? PI, collaborative research with B. Crump, \$450K (\$185K to Kling), 2012-2018.
- NSF - DEB 1026843. "Arctic LTER: The Role of Biogeochemical and Community Openness in Governing Ecological Change in Arctic Ecosystems "; Co-PI with G. Shaver et al., \$5.88 million (\$958K to Kling), 2011-2018.
- NSF - OPP 1023270. "Collaborative Research: Turning on the lights - Photochemical and microbial processing of newly exposed carbon in arctic ecosystems"; Co-PI with R. M. Cory, \$536K (\$287K to Kling), 2010-2015.
- NSF – OPP 1107593. "Collaborative Research on Carbon, Water, and Energy Balance of the Arctic Landscape at Flagship Observatories in Alaska and Siberia"; Co-PI with G. Shaver et al., \$1.117 million (\$363K to Kling, OPP 1107707), 2011-2015.
- NSF - OPP 0806394. "Collaborative Research: Spatial and Temporal Influences of Thermokarst Failures on Surface Processes in Arctic Landscapes"; Co-PI with W. B. Bowden et al., \$1.073 million (\$335K to Kling), 2008-2014.
- NSF - DEB 0639805. "LTREB: What controls long-term changes in freshwater microbial community composition? PI, collaborative research with B. Crump, \$450K (\$183K to Kling), 2006-2012.
- NSF - DEB 0423385. "The Arctic LTER Project: Regional Variation in Ecosystem Processes and Landscape Linkages"; Co-PI with J. Hobbie et al., \$4.92 million (\$837K to Kling), 2004-2010.
- EPA - FP-91686801. "EPA STAR Fellowship", awarded to Heather Adams (Ph.D. candidate), G. Kling advisor, (\$37K), 2007-2010.
- NSF - ATM 0221835. "Biocomplexity – Land-Water Interaction at the Catchment Scale: Linking Biogeochemistry and Hydrology"; Co-PI with M. Stieglitz, K. Griffin, J. Hobbie, J. Schimel, E. Rastetter, \$1.41 million (\$417K to Kling), 2002-2008.
- NSF - DEB 0508570. "Dissertation Research: The effects of mixing and storm events on lake phytoplankton production". PI with M. A. Evans, \$12K, 2005-2007.

- NSF - OPP 9911681. "Developing process-level understanding of controls on belowground carbon and nutrient dynamics in tundra ecosystems"; Lead PI with K. Nadelhoffer, L. Johnson, E. Rastetter, M. Sommerkorn, \$2.07 million, 2000-2007.
- NSF - OPP 9911278. "Aquatic ecosystem responses to changes in the environment of an Arctic drainage basin"; co-PI with J. Hobbie et al., \$4 million (\$250K to Kling), 2000-2005.
- NSF - OPP 9911278-suppl. "Aquatic ecosystem responses to changes in the environment of an Arctic drainage basin"; co-PI with J. Hobbie et al., \$500K (\$87K to Kling), 2005-2006.
- NSF - DEB 9810222. "The Arctic LTER Project: The Future Characteristics of Arctic Communities, Ecosystems, and Landscapes"; Co-PI with J. Hobbie et al., \$4.2 million (\$476K to Kling), 1998-2004.
- USAID, Office of Foreign Disaster Assistance (OFDA) - AOTA-00-99-00223-00. "Mitigation of volcanic hazards: Degassing Lakes Nyos and Monoun"; lead PI, with W. Evans et al., \$685K, 1999-2004.
- Hewlett Foundation. "An interdisciplinary minor in Global Change at the University of Michigan"; co-PI with B. van der Pluijm, D. Allan, E. Dey, \$300K (w/U-M match), 2000-2004.
- NSF - DEB 9553064. "PFF - Environmental Biogeochemistry"; PI, \$500K, 1995-2000.
- NSF - OPP 9615949. "Key connections in Arctic aquatic landscapes"; co-PI with J. Hobbie et al., \$2.9 million (\$175K to Kling), 1997-2001.
- NSF/(EPA) - EAR 9524454. "Carbon Exchange Dynamics in a Temperate Forested Watershed"; co-PI with L. Walter, P. Meyers, D. R. Zak, L. Abriola, \$800K, 1995-2000.
- NSF - 961565. "Development, Deployment, and Evaluation of an Interdisciplinary Undergraduate Curriculum Development Testbed (UCDT)"; co-PI with T. Killeen et al., \$200K, 1996-2000.
- NSF - OPP 9615986. "Effects of Climate-Landscape Interactions on Carbon Storage in Arctic Alaska"; PI; collaborative research with L. Brubaker & F. S. Hu, \$302K (\$75K to Kling), 1996-2000.
- NSF - OPP 9622157. "Development of a linked hydro-biogeochemical model for an arctic watershed"; co-PI with A. Giblin, M. Stieglitz, J. Hobbie, \$115K, 1996-1999.
- NSF - OPP 9615942. "Belowground carbon sources and sinks in arctic tundra ecosystems"; co-PI with K. Nadelhoffer, L. Johnson, W. Reeburgh, \$402K (\$45K to Kling), 1996-1999.
- NSF - DEB 9318085. "Structure and Function of a Tropical Ecosystem"; Lead PI, with A. Giblin, R. Hecky, J. Kitchell, P. Reinthal, \$600K, 1994-1999.
- NSF - DEB 9211775-SPPL. "Carbon Dynamics in Aquatic Ecosystems: LTER Multi-Site Comparison"; Lead PI, with J. Cole and T. Kratz, \$60K, 1994-1998.
- NSF - Arctic Systems Science, LAII - OPP 9318529. "CO₂ and CH₄ Fluxes by Ecosystem Type; Long-Term Feedback Relationships with the Atmosphere"; Co-PI with J. Hobbie et al., \$125K (\$80K to Kling), 1994-1998.
- NSF - DEB 9211775. "The Arctic LTER: Terrestrial and Freshwater Research"; Co-PI with J. Hobbie et al., \$3.9 million (\$125K to Kling), 1992-1998.
- NSF - DEB 9317698. "Causes and consequences of highly variable CO₂ in aquatic ecosystems"; Co-PI with N. Caraco and J. Cole, \$450K (\$30K to Kling), 1994-1997.
- NSF - OPP 9400722. "Controls of Structure and Function of Aquatic Ecosystems in the Arctic"; Co-PI with J. Hobbie et al., \$2.65 million (\$100K to Kling), 1994-1996.
- NSF - DPP 9024188. "Arctic Ecosystems"; Co-PI with J. Hobbie et al., \$2.25 million (\$150K to Kling), 1991-1994.
- NSF - Arctic Systems Science, DPP 9214961. "Attaining Ecological Understanding at the Regional Level"; Co-PI with J. Hobbie et al., \$85K, 1992.

- U.S. Agency for International Development, AID-CAM-92-078. "Degassing Lakes Nyos and Monoun"; PI, \$7.1K, 1992.
- National Geographic Society, NGS 4190-89. "Tropical Limnology"; PI, \$30K, 1989-1990.
- NSF - EAR 8709978. "Limnology in Cameroon"; PI, \$7K, 1987-1988.
- NSF - BSR 8612850. "Limnology and paleolimnology in Madagascar"; PI (dissertation research w/D. A. Livingstone), \$8.7K, 1986-1987.

Publications: (PDFs at <https://scholar.google.com/citations?hl=en&user=CIfyNMgAAAAJ>)

In Review or Revision

- Chen, J., Y. Wu, M. O'Connor, M. B. Cardenas, K. Schaefer, R. Michaelides, G. W. Kling. *In Review*. InSAR reveals factors affecting active layer freeze-thaw and water storage patterns above continuous permafrost in the North Slope of Alaska. **Remote Sensing of the Environment**.
- Nalven, S. G., C. P. Ward, R. M. Cory, G. W. Kling, T. J. Sharpton, C. M. Sullivan, and B. C. Crump. *In Revision*. Experimental metatranscriptomics reveals the costs and benefits of dissolved organic matter photo-alteration for freshwater microbes. **The ISME Journal**.
- Eugster, W., J. Laundre, J. Eugster, and G. W. Kling. *In Review*. Long-term reliability of the Figaro TGS 2600 solid-state methane sensor under low Arctic conditions at Toolik lake, Alaska. **Aerosol and Air Quality Research**.

Published or In Press (all peer-reviewed)

- O'Connor, M. T., Cardenas, M. B., Neilson, B. T., Nicholaides, K. D., and G. W. Kling. 2019. Active layer groundwater flow: The interrelated effects of stratigraphy, thaw, and topography. **Water Resources Research** 55. <https://doi.org/10.1029/2018WR024636>
- Moon, T. A., I. Overeem, M. Druckenmiller, M. Holland, H. Huntington, G. W. Kling, A. L. Lovecraft, G. Miller, T. Scambos, C. Schädel, E. A. G. Schuur, E. Trochim, F. Wiese, D. Williams, G. Wong. *In Press*. The expanding footprint of rapid Arctic change. **Earth's Future** 7 (3), 212-218.
- Trusiak, A., L. A. Treibergs, G. W. Kling, and R. M. Cory. 2019. The controls of iron and oxygen on hydroxyl radical ($\bullet\text{OH}$) production in soils. **Soil Systems** 3, 1, 1-23; [doi:10.3390/soilsystems3010001](https://doi.org/10.3390/soilsystems3010001)
- Neilson, B. T., M. B. Cardenas, M. T. O'Connor, M. T. Rasmussen, T. V. King, G. W. Kling. 2018. Groundwater Flow and Exchange Across the Land Surface Explain Carbon Export Patterns in Continuous Permafrost Watersheds. **Geophysical Research Letters** 45(15):7596-7605. [doi:10.1029/2018GL078140](https://doi.org/10.1029/2018GL078140)
- Liu, X., K. Koba, L.A. Koyama, S.E. Hobbie, M.S. Weiss, Y. Inagaki, G.R. Shaver, A.E. Giblin, S. Hobara, K.J. Nadelhoffer, M. Sommerkorn, E.B. Rastetter, G.W. Kling, J.A. Laundre, Y. Yano, A. Makabe, M. Yano, C. Liu. 2018. Nitrate is an important nitrogen source for arctic plants. **Proc. National Academy of Sciences** 115:3398-3403. doi.org/10.1073/pnas.1715382115
- Trusiak, A., L. A. Treibergs, G. W. Kling, and R. M. Cory. 2018. The role of iron and reactive oxygen species in the production of CO_2 in arctic soil waters. **Geochimica et Cosmochimica Acta** 224: 80–95. doi.org/10.1016/j.gca.2017.12.022

- Cory, R. M. and G. W. Kling. 2018. Controls on DOM degradation along the aquatic continuum: the influence of interactions between light, chemistry, and biology. **Limnology and Oceanography Letters** 3(3):102-116. doi: 10.1002/lol2.10060
- Thompson, L.R., J.G. Sanders, D. McDonald, et al. and The Earth Microbiome Project Consortium. 2017. A communal catalogue reveals Earth's multiscale microbial diversity. **Nature** 551:457 doi:10.1038/nature24621
- Ward, C. P., S. G. Nalven, B. C. Crump, G. W. Kling, R. M. Cory. 2017. Photochemical alteration of dissolved organic carbon in permafrost soils shifts microbial metabolic pathways and stimulates respiration. **Nature Communications** 8:772 doi 10.1038/s41467-017-00759-2
- Hobbie, J. E., G. R. Shaver, E. R. Rastetter, J. E. Cherry, S. J. Goetz, K. C. Guay, W. A. Gould, and G. W. Kling. 2017. Multiple ecosystem responses to climate change at a Low Arctic and a High Arctic long-term research site. **Ambio** 46: S160–S173, doi: 10.1007/s13280-016-0870-x.
- Berry, M. A., R. M. Cory, T. W. Davis, M. B. Duhaime, D. Gossiaux, T. H. Johengen, G. W. Kling, J. A. Marino, P. Den Uyl, G. J. Dick, V. J. Deneff. 2016. Cyanobacterial harmful algal blooms are a biological disturbance to western Lake Erie bacterial communities. **Environmental Microbiology**. doi:10.1111/1462-2920.13640
- Gough, L. N. D. Bettez, K. A. Slavik, W. B. Bowden, A. E. Giblin, G. W. Kling, J. A. Laundre, and G. R. Shaver. 2016. Effects of Long-Term Nutrient Additions on Arctic Tundra, Stream, and Lake Ecosystems: Beyond NPP. **Oecologia**, doi: 10.1007/s00442-016-3716-0
- Chipman, M., G. W. Kling, C. C. Lundstrom, and F. S. Hu. 2016. Multiple thermo-erosional episodes during the past six millennia: Implications for the response of Arctic permafrost to climate change. **Geology** 44: 439–442, doi:10.1130/G37693.1.
- Cory, R. M., T. W. Davis, G. J. Dick, T. Johengen, V. J. Deneff, M. Berry, S. E. Page, S. B. Watson, K. Yuhas, G. W. Kling. 2016. Seasonal dynamics in dissolved organic matter, hydrogen peroxide, and cyanobacterial blooms in Lake Erie. **Frontiers in Marine Science** vol. 3, art. 54, <http://dx.doi.org/10.3389/fmars.2016.00054>
- Abbott, B. et al. 2016. Biomass offsets little or none of permafrost carbon release from soils, streams, and wildfire. An expert assessment. **Environmental Research Letters** 11, 034014. doi:10.1088/1748-9326/11/3/034014
- Crumsey, J. M., Y. Capowicz, M. M. Goodsitt, S. Larson, J. M. Le Moine, J. A. Bird, G. W. Kling, K. J. Nadelhoffer. 2015. Exotic earthworm community composition interacts with soil texture to affect redistribution and retention of litter-derived C and N in northern temperate forest soils. **Biogeochemistry** 126:379–395. doi 10.1007/s10533-015-0164-6
- Cory, R. M., K.H. Harrold, B. T. Neilson, and G.W. Kling. 2015. Controls on dissolved organic matter (DOM) degradation in a headwater stream: the influence of photochemical and hydrological conditions in determining light-limitation or substrate-limitation of photo-degradation. **Biogeosciences** 12:6669-6685. doi:10.5194/bg-12-6669-2015
- Daniels, W. C., G. W. Kling, and A. E. Giblin. 2015. Benthic community metabolism in deep and shallow arctic lakes during 13 years of whole-lake fertilization. **Limnology and Oceanography** 60:1604-1618. doi: 10.1002/lno.10120
- Lee, O., H. Eicken, G. W. Kling, and C. Lee. 2015. A framework for prioritization, design and coordination of Arctic long-term observing networks: A perspective from the U.S. SEARCH Program. **Arctic** 68:Supplement 1, doi: 10.14430/arctic4450

- Adams, H. E., B. C. Crump, and G. W. Kling. 2015. Isolating the effects of storm events on arctic aquatic bacteria: temperature, nutrients, and community composition as controls on bacterial productivity. **Frontiers in Aquatic Microbiology** doi: [10.3389/fmicb.2015.00250](https://doi.org/10.3389/fmicb.2015.00250)
- Kling, G. W., W. C. Evans, and G. Z. Tanyileke. 2015. The comparative limnology of Lakes Nyos and Monoun, Cameroon. Pp. 401-425, In, D. Rouwet, F. Tassi, J. Vandemeulebrouck, B. Christenson (eds.), *Volcanic Lakes*, Springer-Verlag, Berlin. doi: [10.1007/978-3-642-36833-2_18](https://doi.org/10.1007/978-3-642-36833-2_18)
- Cory, R. M., C. P. Ward, B. C. Crump, and G. W. Kling. 2014. Sunlight controls water column processing of carbon in arctic fresh waters. **Science** 345:925-928. doi: [10.1126/science.1253119](https://doi.org/10.1126/science.1253119)
- Adams, H. E., B. C. Crump, and G. W. Kling. 2014. Metacommunity dynamics of bacteria in a freshwater lake; the role of species sorting and mass effects. **Frontiers in Aquatic Microbiology** 5(82):1-10. doi: [10.3389/fmicb.2014.00082](https://doi.org/10.3389/fmicb.2014.00082).
- Hobbie, J. E. and G. W. Kling, editors. 2014. *A Changing Arctic: Ecological Consequences for Tundra, Streams, and Lakes*. Oxford University Press, 331 pp.
- Kling, G. W., H. E. Adams, N. D. Bettez, W. B. Bowden, B. C. Crump, A. E. Giblin, K. E. Judd, K. Keller, G. W. Kipphut, E. R. Rastetter, G. R. Shaver, M. Stieglitz. 2014. Land-Water Interactions. Pg. 143-172 in J. E. Hobbie and G. W. Kling, editors, *A Changing Arctic: Ecological Consequences for Tundra, Streams, and Lakes*. Oxford University Press.
- Oswald, W. W., L. B. Brubaker, F. S. Hu, and G. W. Kling. 2014. Late-Quaternary Environmental and Ecological History of the Arctic Foothills, Northern Alaska. Pg. 81-89 in J. E. Hobbie and G. W. Kling, editors, *A Changing Arctic: Ecological Consequences for Tundra, Streams, and Lakes*. Oxford University Press.
- Shaver, G. R., J. A. Laundre, M. S. Bret-Harte, F. S. Chapin, III, A. E. Giblin, L. Gough, S. E. Hobbie, G. W. Kling, M. C. Mack, J. C. Moore, K. J. Nadelhoffer, E. B. Rastetter, and J. P. Schimel. 2014. Terrestrial Ecosystems at Toolik Lake, Alaska. Pg. 90-142 in J. E. Hobbie and G. W. Kling, editors, *A Changing Arctic: Ecological Consequences for Tundra, Streams, and Lakes*. Oxford University Press.
- Luecke, C., A. E. Giblin, N. Bettez, G. Burkart, B. C. Crump, M. E. Evans, G. Gettel, S. MacIntyre, W. J. O'Brien, P. Rublee, and G. W. Kling. 2014. The Response of Lakes near the Arctic-LTER to Environmental Change. Pg. 238-286 in J. E. Hobbie and G. W. Kling, editors, *A Changing Arctic: Ecological Consequences for Tundra, Streams, and Lakes*. Oxford University Press.
- Hobbie, J. E. and G. W. Kling. 2014. Ecological Consequences of Present and Future Change in Arctic Alaska. Pg. 303-324 in J. E. Hobbie and G. W. Kling, editors, *A Changing Arctic: Ecological Consequences for Tundra, Streams, and Lakes*. Oxford University Press.
- Crumsey, J., J. LeMoine, Y. Capowiez, M. Goodsitt, S. Larson, G. W. Kling, and K. Nadelhoffer. 2013. Community-specific impacts of exotic earthworm invasions on soil carbon dynamics in a sandy temperate forest. **Ecology** 94:2827-2837.
- Page, S. E., G. W. Kling, M. Sander, K. H. Harrold, J. R. Logan, K. McNeill, R. M. Cory. 2013. Dark formation of hydroxyl radical supports high rates of dissolved organic matter oxidation in arctic soil and surface waters. **Environment, Science, & Technology** 47:12860-12867 DOI:10.1021/es403326
- Cory, R. M., B. C. Crump, J. A. Dobkowski, and G. W. Kling. 2013. Surface exposure to sunlight stimulates CO₂ release from permafrost soil carbon in the Arctic. **Proc. National Academy of Sciences** 110:3429-3434, doi/10.1073/pnas.1214104110. [10.1073/pnas.1214104110](https://doi.org/10.1073/pnas.1214104110)

- Crump, B. C., L. A. Amaral-Zettler, and G. W. Kling. 2012. Microbial diversity in arctic freshwaters is structured by inoculation of microbes from soils. **The ISME Journal** 2012:1-11. doi:10.1038/ismej.2012.9
- Eugster, W. and G. W. Kling. 2012. Performance of a low-cost methane sensor for ambient concentration measurements in preliminary studies. **Atmospheric Measurement Techniques** 5:1925–1934. doi:10.5194/amt-5-1925-2012
- Merck, M. F., B. T. Neilson, R. M. Cory, and G. W. Kling. 2011. Variability of in-stream and riparian storage in a beaded arctic stream. **Hydrological Processes** DOI:10.1002/hyp.8323.
- Adams, H. E., B. C. Crump and G. W. Kling. 2010. Temperature controls on aquatic bacterial activity and community dynamics. **Environmental Microbiology** 12:1319-1333.
- Rastetter, E. B., M. Williams, K. L. Griffin, B. L. Kwiatkowski, G. Tomasky, M. J. Potosnak, P. C. Stoy, G. R. Shaver, M. Stieglitz, J. E. Hobbie, and G. W. Kling. 2010. Processing arctic eddy-flux data using a simple carbon-exchange model embedded in the ensemble Kalman filter. **Ecological Applications** 20:1285-1301.
- Keller, K., J. D. Blum, and G. W. Kling. 2010. Stream geochemistry as an indicator of increasing thaw depth in an arctic watershed. **Chemical Geology** 273:76-81.
- Hecky, R. E., Mugidde, R., Ramlal, P. S., Talbot, M. R., Kling, G. W. 2010. Multiple stressors cause rapid ecosystem change in Lake Victoria. **Freshwater Biology** 55:19-42.
- Bosch, N. S., T. H. Johengen, J. D. Allan, and G. W. Kling. 2009. Nutrient fluxes across reaches and impoundments in two southeastern Michigan watersheds. **Lake and Reservoir Management** 25: 389-400.
- Kling, G. W. 2009. Lakes of the Arctic. pp. 577-588 In Gene E. Likens (Editor), *Encyclopedia of Inland Waters*, volume 2. Oxford: Elsevier.
- Schiesari, L., E. E. Werner & G. W. Kling. 2009. Carnivory and resource-based niche differentiation in anuran larvae: implications for food web and experimental ecology. **Freshwater Biology** 54: 572-586.
- MacIntyre, S., J. P. Fram, P. J. Kushner, N. D. Bettez, W. J. O'Brien, J. E. Hobbie, and G. W. Kling. 2009. Climate-related variations in mixing dynamics in an Alaskan arctic lake. **Limnology and Oceanography** 54: 2401-2417.
- Kusakabe, M., T. Ohba, I. Issa, Y. Yoshida, H. Satake, T. Ohizumi, W. C. Evans, G. Tanyileke, and G. W. Kling. 2008. Pre- and post-degassing evolution of CO₂ in Lakes Monoun and Nyos, Cameroon. **Geochemical Journal** 42:93-118.
- McNamara, J., D. Kane, J. Hobbie, and G. W. Kling. 2008. Hydrologic and biogeochemical controls on the spatial and temporal patterns of nitrogen and phosphorus in the Kuparuk River, arctic Alaska. **Hydrological Processes** 22:3294–3309, DOI: 10.1002/hyp.6920.
- Evans, M. A., S. M. MacIntyre, and G. W. Kling. 2008. Internal wave effects on photosynthesis: experiments, theory, and modeling. **Limnology and Oceanography** 53:339-353.
- Crump, B. C., H. E. Adams, J. E. Hobbie, and G. W. Kling. 2007. Biogeography of bacterioplankton in lakes and streams of an Arctic tundra catchment. **Ecology** 88:1365-1378.
- Williams, E. L., Walter, L., Ku, T.C.W., Baptist, K.K., Budai, J.M., and G.W. Kling. 2007. Silicate weathering in temperate forest soils: insights from a field experiment. **Biogeochemistry** 82:111-126. DOI 10.1007/s10533-006-9057-z.
- Judd, K. E., B. C. Crump, and G. W. Kling. 2007. Bacterial responses in activity and community composition to photo-oxidation of dissolved organic matter from soil and surface waters. **Aquatic Sciences** 69:96-107. DOI 10.1007/s00027-006-0908-4.

- Keller, K., J. Blum, and G. W. Kling. 2007. Geochemistry of soils and streams on surfaces of varying ages in arctic Alaska. **Arctic, Antarctic, and Alpine Research** 39:84-98.
- Judd, K. E., B. C. Crump and G. W. Kling, 2006. Variation in dissolved organic matter bioavailability along terrestrial to aquatic flowpaths controls rates of bacterial production and structures bacterial communities. **Ecology** 87: 2068–2079.
- Zak, D. R. and G. W. Kling. 2006. Microbial Community Composition and Function across an Arctic Tundra Landscape. **Ecology** 87:1659-1670.
- Allan, J. D., A. S. Flecker, S. Segnini, D. C. Taphorn, E. Sokal, and G. W. Kling. 2006. The Limnology of Andean Piedmont Rivers of Venezuela. **J. North American Benthological Soc.** 25:66-81.
- MacIntyre, S. M., J. O. Sickman, S. A. Goldthwait, and G. W. Kling. 2006. Physical pathways of nutrient supply in a small, ultra-oligotrophic arctic lake during summer stratification. **Limnology and Oceanography** 51: 1107-1124.
- Zhang, Y. and G. W. Kling. 2006. Dynamics of lake eruptions and possible ocean eruptions. **Annual Review Earth Planetary Sciences** 34: 293-324 DOI:10.1146 /annurev.earth.34.031405.125001
- Kling, G. W., W. C. Evans, G. Tanyileke, M. Kusakabe, T. Ohba, Y. Yoshida, and J. V. Hell. 2005. Degassing Lakes Nyos and Monoun – defusing certain disaster. **Proc. National Academy of Sciences** 102:14185-14190.
- Judd K.E., H. E. Adams, N. S. Bosch, J. M. Kostrzewski, C. E. Scott, B. M. Schultz, D. H. Wang, and G. W. Kling. 2005. Transition of a temperate lake in southeastern Michigan from dimictic to meromictic: Implications for spring season nutrient dynamics and community structure. **Lake and Reservoir Management** 21(3):316-329.
- O'Brien, W. J., M. Barfield, N. Bettez, A. E. Hershey, J. E. Hobbie, G. Kipphut, G. W. Kling, and M. C. Miller. 2005. Long-term response and recovery to nutrient addition of a partitioned arctic lake. **Freshwater Biology** 50 (5): 731-741.
- Castillo, M. M., J. D. Allan, R. L. Sinsabaugh, and G. W. Kling. 2004. Seasonal and interannual variation of bacterial production in lowland rivers of the Orinoco basin. **Freshwater Biology** 49:1400-1414.
- Ramlal, P. S., F. W. B. Bugenyi, G. W. Kling, J. O. Nriagu, J. W. M. Rudd, and L. M. Campbell. 2003. Mercury concentrations in water, sediment and biota from Lake Victoria, East Africa. **J. Great Lakes Research** 29:283-291.
- Kling, G. W., K. Hayhoe, L. Johnson, J. Magnuson, S. Polasky, S. Robinson, B. Shuter, M. Wander, D. Wuebbles, D. Zak. 2003. *Confronting Climate Change in the Great Lakes Region*. Union of Concerned Scientists, Ecological Society of America; Cambridge, MA, Washington, D.C. 92 pp.
- Stieglitz, M., J. Shaman, J. McNamara, V. Engel, J. Shanley, G. W. Kling. 2003. An approach to understanding hydrologic connectivity on the hillslope and the implications for nutrient transport. **Global Biogeochemical Cycles** 17 (4): art. no. 1105. doi:10.1029/2003GB002041
- Oswald, W.W., L.B. Brubaker, F.S. Hu, G. W. Kling. 2003. Holocene pollen records from the central Arctic Foothills, northern Alaska: testing the role of substrate in the response of tundra to climate change. **Journal of Ecology** 91:1034-1048.
- Crump, B. C., G. W. Kling, M. Bahr, J. E. Hobbie. 2003. Bacterioplankton community shifts in an arctic lake correlate with seasonal changes in organic matter source. **Applied Environmental Microbiology** 69:2253-2268.

- Williams, E.L., L. M. Walter, T.C.W. Ku, G. W. Kling, D. R. Zak. 2003. Effects of CO₂ and nutrient availability on mineral weathering in controlled tree growth experiments. **Global Biogeochemical Cycles** 17(2): Art. no. 1041, doi:10.1029/2002GB001925.
- Eugster, W., G. W. Kling, T. Jonas, J. McFadden, A. Weust, S. MacIntyre, F. S. Chapin. 2003. CO₂ exchange between air and water in an arctic Alaskan and mid-latitude Swiss lake: the importance of convective mixing. **J. Geophysical Research** 108 (D12): art. no. 4362 (ACL7-1 – 7-14).
- Castillo, M. M., G. W. Kling and J. D. Allan. 2003. Bottom-up controls on bacterial production in tropical lowland rivers. **Limnology and Oceanography** 48:1466-1475.
- Loya, W. M., L. C. Johnson, G. W. Kling, J. Y. King, W. S. Reeburgh, K. J. Nadelhoffer. 2002. Pulse-labeling studies of carbon cycling in arctic tundra ecosystems: the contribution of photosynthates to soil organic matter. **Global Biogeochemical Cycles** 16(4): art. no. 1101.
- King, J. Y., W. S. Reeburgh, K. K. Thieler, G. W. Kling, W. M. Loya, L. C. Johnson, and K. J. Nadelhoffer. 2002. Pulse-labeling studies of carbon cycling in Arctic tundra ecosystems: the contribution of photosynthates to methane emission. **Global Biogeochemical Cycles** 16(4): art. no. 1062 (10-1 – 10-8).
- Judd, K. E. and G. W. Kling. 2002. Production and export of dissolved C in arctic tundra mesocosms: the roles of vegetation and water flow. **Biogeochemistry** 60:213-234.
- MacIntyre, S., J. R. Romero, and G. W. Kling. 2002. Spatial-temporal variability in surface layer deepening and lateral advection in an embayment of Lake Victoria, East Africa. **Limnology and Oceanography** 47: 656-671.
- Sheridan, C. C., D. K. Steinberg, and G. W. Kling. 2002. The microbial and metazoan community associated with colonies of *Trichodesmium spp.*: a quantitative survey. **J. Plankton Research** 24(9):913-922.
- MacIntyre, S., W. Eugster, and G. W. Kling. 2002. The critical importance of buoyancy flux for gas flux across the air-water interface. pp. 135-139 *In* Gas Transfer at Water Surfaces, M.A. Donelan, W.M. Drennan, E.S. Saltzman, and R. Wanninkhof (Eds.), American Geophysical Union, Geophysical Monograph 127.
- Hobbie, J.E., A. Hershey, P. Lienesch, M. McDonald, G.W. Kling, and W.J. O'Brien. 2001. Studies of fresh waters on the North Slope, pp. 123-128. *In*: D. Norton (ed.), Fifty More Years Below Zero: Tributes and Meditations for the Naval Arctic Research Laboratory's First Half Century at Barrow, Alaska. University of Alaska Press, Fairbanks, Alaska.
- Ramlal, P. S., G. W. Kling, L. M. Ndawula, R. E. Hecky, and H. J. Kling. 2001. Diurnal fluctuations in Pco₂, DIC, oxygen, and nutrients at inshore sites in Lake Victoria, Uganda. pp. 67-82 *In* M. Munawar and R.E. Hecky (Eds.), The Great Lakes of the World, Backhuys, Leiden.
- Kling, G. W. 2000. A lake's life is not its own. **Nature** 408:149-150.
- Stieglitz, M., A. Giblin, J. Hobbie, M. Williams, and G. Kling. 2000. Simulating the effects of climate change and climate variability on carbon dynamics in Arctic tundra. **Global Biogeochemical Cycles** 14:1123-1136.
- Kling, G. W., G. W. Kipphut, M. C. Miller, and W. J. O'Brien. 2000. Integration of lakes and streams in a landscape perspective: the importance of material processing on spatial patterns and temporal coherence. **Freshwater Biology** 43:477-497.
- Brown, J., K. M. Hinkel, L. D. Hinzman, G. W. Kling, F. E. Nelson, V. E. Romanovsky, and N. I. Shiklomonov. 2000. Arctic Alaska and Seward Peninsula, pp. 182-187 *In* J. Brown K. M.

- Hinkel F. E. Nelson (Eds.), The circumpolar active layer monitoring (CALM) program: Research designs and initial results. **Polar Geography** 24 (2):165-258.
- Bridgeman, T.B., C. D. Wallace, G. S. Carter, R. Carvajal, L. C. Schiesari, S. Aslam, E. Cloyd, D. Elder, A. Field, K. L. Schulz, P. M. Yurista, and G. W. Kling. 2000. A limnological survey of Third Sister Lake, Michigan with historical comparisons. **Lake and Reservoir Management** 16:253-267.
- Wolheim, W.M., B.J. Peterson, L.A. Deegan, M. Bahr, D. Jones, W.B. Bowden, A.E. Hershey, G. W. Kling, M.C. Miller. 1999. A coupled field and modeling approach for the analysis of nitrogen cycling in streams. **J. North American Benthological Society** 18:199-221.
- Soranno, P. A., K. E. Webster, J.L. Riera, T.K. Kratz, J.S. Baron, P.A. Bukaveckas, G.W. Kling, D.S. White, N. Caine, R.C. Lathrop and P.R. Leavitt. 1999. Spatial variation among lakes within landscapes: ecological organization along lake chains. **Ecosystems** 2:395-410.
- Hobbie, J.E., B.J. Peterson, N. Bettez, L. Deegan, W.J. O'Brien, G.W. Kling, and G.W. Kipphut. 1999. Impact of global change on biogeochemistry and ecosystems of an Arctic freshwater system. **Polar Research** 18:1-8.
- Molau, U., T.R. Christensen, B. Forbes, J.I. Holten, G.W. Kling, and G. L. Vourlitis. 1999. Climate change effects on northern terrestrial and freshwater ecosystems: Current status assessment. **Global Change Science** 1:493-495.
- Stieglitz, M., J. Hobbie, A. Giblin, and G. Kling. 1999. Hydrologic modeling of an arctic watershed: Towards Pan-Arctic predictions. **Journal of Geophysical Research** 104, D22, 27507-27518.
- Michaelson, G. J., C. L. Ping, G. W. Kling and J. E. Hobbie. 1998. The character and bioactivity of dissolved organic matter at thaw and in the spring runoff waters of the arctic tundra North Slope, Alaska. **J. Geophysical Research** 103:28,939-28,946.
- Reeburgh, W.S., J.Y. King, S.K. Regli, G.W. Kling, N.A. Auerbach, D.A. Walker. 1998. A CH₄ emission estimate for the Kuparuk River Basin, Alaska. **J. Geophysical Research** 103:29,005-2,9013.
- Peterson, B. J., M. Bahr, G. W. Kling. 1997. A tracer investigation of nitrogen cycling in a pristine tundra river. **Canadian J. Fisheries & Aquatic Sciences** 54:2361-2367.
- Rouse, W. R., M. Douglas, R. E. Hecky, A. Hershey, G. W. Kling, L. Lesack, P. Marsh, M. McDonald, B. Nicholson, N. Roulet, J. Smol. 1997. Effects of climate change on the fresh waters of arctic and subarctic North America. **Hydrological Processes** 11: 873-902.
- O'Brien, W. J., M. Bahr, A. Hershey, J. Hobbie, G. Kipphut, G. Kling, H. Kling, M. McDonald, M. Miller, P. Rublee and R. Vestal. 1997. The limnology of Toolik Lake, pp. 61-106 *In*, A. Milner and M.W. Oswood (eds.), Alaskan Freshwaters. Springer-Verlag, N.Y.
- Hershey, A.E., W.B. Bowden, L.A. Deegan, J.E. Hobbie, B.J. Peterson, G.W. Kipphut, G.W. Kling, M.A. Lock, M.C. Miller and J.R. Vestal. 1997. The Kuparuk River: A long-term study of biological and chemical processes in an arctic river, pp. 107-129 *In*, A. Milner and M.W. Oswood (eds.), Alaskan Freshwaters. Springer-Verlag, N.Y.
- Meili, M., G. W. Kling, B. Fry, R. T. Bell & I. Ahlgren. 1996. Sources and partitioning of organic matter in a pelagic microbial food web inferred from the isotopic composition (¹³C and ¹⁵N) of zooplankton species. **Archiv für Hydrobiologie**, Advances in Limnol. 48:53-61.
- Kling, G. W. 1995. Land-water linkages: the influence of terrestrial diversity on aquatic systems. pp. 297-310 *In*, F. S. Chapin and C. Korner (eds.), The Role of Biodiversity in Arctic and Alpine Tundra Ecosystems, Springer-Verlag, Berlin. 320pp.

- Evans, W. C., G. W. Kling and M. L. Tuttle. 1995. Lake Nyos, Cameroon: Examining the 1986 gas release from the system standpoint. Pp. 303-306 *In* Y. K. Kharaka and O. V. Chudaev (Eds.), *Water-Rock Interaction*, Vol. 8. A.A. Balkema, Rotterdam.
- Hobbie, J., L. Deegan, B. Peterson, E. Rastetter, G. Shaver, G. Kling, J. O'Brien, T. Chapin, M. Miller, G. Kipphut, B. Bowden, A. Hershey and M. McDonald. 1995. Long-term measurements at the Arctic LTER site. pp. 391-409 *In*, T. M. Powell and J. H. Steele (eds.), *Ecological Time Series*, Chapman & Hall, New York.
- Fry, B., D. E. Jones, G. W. Kling, R. B. McKane, K. J. Nadelhoffer and B. J. Peterson. 1995. Adding ^{15}N Tracers to Ecosystem Experiments. pp. 171-192 *In*, E. Wada et al. eds.), *Stable Isotopes in the Biosphere*, Kyoto University Press, Kyoto, Japan.
- Evans, W. C., L. D. White, M. L. Tuttle, G. W. Kling, G. Tanyileke and R. L. Michel. 1994. Six years of change at Lake Nyos, Cameroon, yield clues to the past and cautions for the future. **Geochemical Journal** 28:139-162.
- Kling, G. W., W. C. Evans, M. L. Tuttle and G. Tanyileke. 1994. Degassing of Lake Nyos. **Nature** 368:405-406.
- Cole, J. J., Caraco, N., Kling, G. W., and T. Kratz. 1994. Carbon dioxide supersaturation in the surface waters of lakes. **Science** 265:1568-1570.
- Kling, G. W. 1994. Ecosystem-scale Experiments in Freshwaters: the Use of Stable Isotopes. pp. 91-120 *In*, L. A. Baker (ed.), *Environmental Chemistry of Lakes and Reservoirs*, *Advances in Chemistry Series 237*, American Chemical Society, Washington D.C., 627pp.
- Reinthal, P. N. and G. W. Kling. 1994. Exotic species, trophic interactions and ecosystem dynamics: a case study of Lake Victoria. pp. 295-313 *In*, D. Stouder, K. Fresh, and R. Feller. *Theory and Application in Fish Feeding Ecology*. University of South Carolina Press, Columbia.
- Hershey, A. E., J. Pastor, B. J. Peterson, and G. W. Kling. 1993. Stable isotopes resolve the drift paradox for *Baetis* mayflies in an arctic river. **Ecology** 74:2315-2325.
- Meili, M., B. Fry, and G. W. Kling. 1993. Fractionation of stable isotopes (^{13}C , ^{15}N) in the food web of a humic lake. **Verein. ver. Internat. Limnologie** 25:501-505.
- Evans, W. C., G. W. Kling, M. L. Tuttle, G. Tanyileke, and L. D. White. 1993. Gas buildup in Lake Nyos: the recharge process and its consequences. **Applied Geochemistry** 8:207-221.
- Kling, G. W., G. W. Kipphut, and M. C. Miller. 1992. The flux of carbon dioxide and methane from lakes and rivers in arctic Alaska. **Hydrobiologia** 240:23-36.
- Kling, G. W., B. Fry, and W. J. O'Brien. 1992. Stable isotopes and planktonic trophic structure in arctic lakes. **Ecology** 73:561-566.
- Kling, G. W., W. J. O'Brien, M. C. Miller, A. E. Hershey. 1992. The biogeochemistry and zoogeography of lakes and rivers in arctic Alaska. **Hydrobiologia** 240:1-14.
- Tuttle, M.L., P.H. Briggs, W.C. Evans, G.W. Kling, and J.P. Lockwood. 1992. Influence of mafic minerals on water chemistry and water column stability of Lake Nyos, Cameroon. pp. 449-452 *In*, Y. Kharaka and A. Maest (Eds.), *Water-Rock Interaction*, Vol. 1. A.A. Balkema, Rotterdam.
- Kling, G. W., G. W. Kipphut, and M. C. Miller. 1991. Arctic lakes and rivers as gas conduits to the atmosphere: implications for tundra carbon budgets. **Science** 251:298-301.
- Kling, G. W., A. E. Giblin, B. Fry, and B. J. Peterson. 1991. The role of seasonal turnover in lake alkalinity dynamics. **Limnology and Oceanography** 36:106-122.
- Kling, G. W., W. C. Evans, and M. L. Tuttle. 1991. A comparative view of Lakes Nyos and Monoun, Cameroon. **Vereinigung ver. Internat. Limnologie** 24:1102-1105

- Maley, J., D.A. Livingstone, P. Giresse, P. Brenac, G. Kling, C. Stager, N. Thouveny, K. Kelts, M. Haag, M. Fournier, Y. Bandet, D. Williamson and A. Zogning, 1991. West Cameroon quaternary lacustrine deposits: Preliminary results. Special Volume on African Continental Sediments, Vol. II. **Jour. African Earth Sciences 12: 147-157.**
- Freeth, S. J., G. W. Kling, M. Kusakabe, J. Maley, F. Tchoua, K. Tiezte. 1990. Conclusions from the Lake Nyos Disaster. **Nature** 348:201.
- Saunders, J. F. and G. W. Kling. 1990. Species distributions and shell characteristics of *Pisidium* (Mollusca: Bivalvia) in the Colorado Front Range: the role of abiotic factors. **Freshwater Biology** 24:275-285.
- Maley, J., P. Giresse, N. Thouveny, P. Brenac, K. Kelts, D. Livingstone, G. Kling, C. Stager, M. Haag, M. Fournier, Y. Bandet, D. Williamson, A. Zonig. 1990. Lithostratigraphy, vulcanism, paleomagnetism and palynology of Quaternary lacustrine deposits from Barombi Mbo. **J. Volcanology and Geothermal Research** 42:319-336.
- Kling, G. W., Tuttle, M. L. and W. C. Evans. 1989. The evolution of thermal structure and water chemistry in Lake Nyos. **J. Volcanology and Geothermal Research** 39:151-166.
- Kling, G. W., Tuttle, M. L. and W. C. Evans. 1989. The safety of Cameroon lakes. **Nature** 337:215.
- Green, J., and G. W. Kling. 1988. The genus *Daphnia* in Cameroon, West Africa. **Hydrobiologia** 160:257-261.
- Kling, G. W. 1988. Comparative transparency, depth of mixing, and stability of stratification in lakes of Cameroon, West Africa. **Limnology and Oceanography** 33:27-40.
- Burney, D. A., R.D.E. MacPhee, J. Rafamantanantsoa, T. Rakotondrazafy, and G. W. Kling. 1988. The roles of natural factors and human activities in the environmental changes and faunal extinctions of late Holocene Madagascar. pp.15-20 *In*, P. Sondaar and M. Sanges (eds.), Early Man in Island Environments. Sardinia, Italy.
- Kling, G. W. 1987. Seasonal mixing and catastrophic degassing in tropical lakes, Cameroon, West Africa. **Science** 237: 1022-1024.
- Kling, G. W., M. Clark, H. R. Compton, J. D. Devine, W. C. Evans, A. M. Humphrey, J. P. Lockwood and M. L. Tuttle. 1987. The 1986 Lake Nyos gas disaster, Cameroon, West Africa. **Science** 236:169-175.
- Kling, G. W. 1986. The physicochemistry of some dune ponds on the Outer Banks, North Carolina. **Hydrobiologia** 134:3-10.
- Kling, G. W., and M. C. Grant. 1984. Acid precipitation in the Colorado Front Range: An overview with time predictions for significant effects. **Arctic and Alpine Research** 16:321-329.

Publications – Book Reviews, Technical Reports, Not peer-reviewed:

- Kling, G. W. 2016. In Memoriam. Daniel A. Livingstone (1927-2016). *Limnology and Oceanography Bulletin* 25(3):85-86.
- Eicken, H., O. Lee, G. Kling, C. Lee, H. Wiggins, SEARCH SSC. 2013. Dual-purpose Arctic observing networks: Lessons from SEARCH on frameworks for prioritization and coordination. Arctic Observing Summit, Vancouver, BC, 30 April – 2 May. White Paper, 13 pp.
- Bowden, W. B., J.R. Larouche, A.R. Pearce, B.T. Crosby, K. Krieger, M.B. Flinn, J. Kampman, M.N. Gooseff, S.E. Godsey, J.B. Jones, B.W. Abbott, M.T. Jorgenson, G.W. Kling, M. Mack, E.A.G. Schuur, A.F. Baron, E.B. Rastetter. 2012. An Integrated Assessment of the

- Influences of Upland Thermal-Erosional Features on Landscape Structure and Function in the Foothills of the Brooks Range, Alaska. Third International Conference on Permafrost, June 2012, paper #7516.
- Kling, G. W. 2007. Gas-Charged Lakes: The Killers are on Notice, But Not Yet Stopped. **Societas Internationale Limnologie News** 50:8-9.
- Kling, G., S. MacIntyre, J. Steinfeld, F. Hirslund. 2006. Lake Kivu Gas Extraction: Report on Lake Stability. Report produced for the World Bank and the Government of Rwanda, 104 pp.
- Kling, G. W. 1990. Review of the book "Saline Lakes", Edited by J.M. Melack. **Ecomod.** 8:2.
- Kling, G. W. 1988. A "Killer" Lake in Cameroon. p. 271 *In*, Science Year, Review of Science and Technology, World Book, Inc., Chicago.
- Maley, J., P. Brenac, P. Giresse, D.A. Livingstone, G. Kling, C. Stager, N. Thouveny, D. Williamson, K. Kelts, M. Haag, M. Pourchet, J.F. Pinglot, M. Fournier, Y. Bandet and A. Zogning, 1990. West Cameroon Quaternary lacustrine deposits from Barombi Mbo: Sedimentology, volcanism, paleomagnetism and palynology. A Nyos type event ca. 21,000 years B.P.? International Working Group on Crater Lakes Newsletter No. 3. 2.
- Maley, J, P. Giresse, P. Brenac, N. Thouveny, K. Kelts, D. A. Livingstone, G. Kling, C. Stager, M. Haag, M. Fournier, Y. Bandet, D. Williamson et A. Zogning, 1990. Paléoenvironnements de l'Ouest-Cameroun au Quaternaire récent : résultats préliminaires. p. 228-247 in D. Schwartz et R. Lanfranchi, eds., Paysages Quaternaires de l'Afrique Centrale Atlantique. Comité des Editions de l'ORSTOM, Paris.
- Kling, G. W. 1987. Review of the book "The Ecology of Tropical Lakes and Rivers", by A. I. Payne. **Water Resources Bulletin** 23:350-351.
- Tuttle, M.L., Clark, M.A., Compton, H.R., Devine, J.D., Evans, W.C., Humphrey, A.M., Kling, G.W., Koenigsberg, E.J., Lockwood, J.P., and Wagner, G.N., 1987. The 21 August 1986 Lake Nyos gas disaster, Cameroon. U.S. Geological Survey Open-File Report, 87-97, 58 pp.
- Livingstone, D. A. and G. W. Kling. 1987. Poisonous gases from lakes: The Cameroon disaster. pp. 151-159 *In*, S. E. Rogers (ed.), Determination of atmospheric dilution for emergency preparedness. Proceedings of EPA-DOE Technical Workshop, 15-17 October 1986.

Publications – published abstracts, contributed papers, or posters:

- Crump, B. and G. Kling. 2018. Dispersal of microbes in aquatic systems: a decade of research using high-throughput DNA sequencing. Association for the Sciences of Limnology and Oceanography, Summer Meeting, 10-15 June, Victoria, B.C., p. 33.
- Smith, D., Cory, R., Davis, T., Kling, G., Fanslow, D., Vanderploeg, H., Zastepa, A., Dick, G. 2018. Biological production is the dominant source of H₂O₂ in Lake Erie cyanobacterial blooms. Association for the Sciences of Limnology and Oceanography, Summer Meeting, 10-15 June, Victoria, B.C., p. 54.
- Kling, G. W., G. Shaver, J. Hobbie, A. Giblin, V. Romanovsky, E. Rastetter. 2018. Causes of Multi-decadal Environmental Change near Toolik Lake, Arctic Alaska. POLAR 2018, IASC-SCAR 15-26 June, Davos, #2141.
- Cardenas, M. B, B. T. Neilson, M. T. O'Connor, M. T. Rasmussen, T. V. King, G. W. Kling. 2018. "Groundwater flow and exchange across the land surface explain carbon export patterns in a continuous permafrost watershed." 2018 Fall Meeting, American Geophysical Union, December 10-14, 2018. Abstract B23C-04. Washington, D.C.

- Neilson, B. T., M. B. Cardenas, M. T. O'Connor, M. T. Rasmussen, T. V. King, G. W. Kling. 2018. Groundwater transport and exchanges on the land surface control stream chemistry in permafrost. POLAR 2018 SCAR/IASC Open Science Conference, June 18-23, 2018. Davos, Switzerland.
- O'Connor, M. T., K. D. Nicholaides, M. B. Cardenas, B. T. Neilson, G. W. Kling. 2018. Predictability of variable arctic soil hydraulic and thermal properties, and implications of such variability on future thaw. 2018 Fall Meeting, American Geophysical Union, December 10-14, 2018. Abstract C43C-1812. Washington, D.C.
- Wu, Y., M. O'Connor, J. Chen, G. W. Kling, M. B. Cardenas, S. B. Ferencz. 2018. Determining the Link between Hydraulic Properties of Arctic Tundra Soils and Interferometric Synthetic Aperture Radar Deformation Measurements. 2018 Fall Meeting, American Geophysical Union, December 10-14, 2018. Abstract G41B-0701. Washington, D.C.
- Cory, R.M., T.V. King, B.T. Neilson, G.W. Kling. 2018. "Controls on fluxes of labile DOC from the Kuparuk River to the Arctic Ocean." POLAR 2018 SCAR/IASC Open Science Conference, June 18-23, 2018. Davos, Switzerland.
- O'Connor, M. T., K. D. Nicholaides, S. B. Ferencz, M. B. Cardenas, B. T. Neilson, A. Jan, E. T. Coon, G. W. Kling. 2018. "Impact of a depth-variable organic mat on thaw and groundwater flow in continuous permafrost" November 2018, Geological Society of America Annual Meeting. Indianapolis, IN.
- Cardenas, M. B., B. Neilson, M. O'Connor, M. Rasmussen, T. King, G. Kling. 2018. Groundwater Exchanges on the Land Surface Control Stream Chemistry in Permafrost. POLAR 2018, IASC-SCAR 15-26 June, Davos, #1543.
- Eugster, W., T. DelSontro, G. R. Shaver, and G. W. Kling. 2018. How Do CO₂ and CH₄ Effluxes from Toolik Lake Change with Climate Change? POLAR 2018, IASC-SCAR 15-26 June, Davos, #645.
- O'Connor, M., M. B. Cardenas, B. T. Neilson, K. D. Nicholaides, G. W. Kling. 2017. Groundwater Dynamics and Export from Active Layer Aquifers Overlying Permafrost. C33F-04, American Geophysical Union Fall National Meeting. New Orleans, LA.
- Nicholaides, K. D., M. O'Connor, M. B. Cardenas, B. T. Neilson, and G. W. Kling. 2017. The Effects of Different Scales of Topographic Variation on Shallow Groundwater Flow in an Arctic Watershed. C21A-1111, American Geophysical Union Fall National Meeting. New Orleans, LA.
- Cory, R. M., A. Trusiak, C. P. Ward, G. W. Kling, M. M. Tfaily, L. Pasa-Tolic, V. Noël, J. R. Bargar. 2017. Interactions between iron and organic matter may influence the fate of permafrost carbon in the Arctic. American Geophysical Union Fall National Meeting. New Orleans, LA.
- Ward, C. S., Nalven, S. G., Crump, B. C., Kling, G. W., and R. M. Cory. 2017. Photochemical alteration of organic carbon draining permafrost soils shifts microbial metabolic pathways and stimulates respiration. 24th Biennial Conference of the Coastal and Estuarine Research Federation, Providence, RI, November 5-9, 2017.
- Smith, D. J., T. W. Davis, M. A. Berry, R. M. Cory, V. J. Denef, T. Johengen, G. W. Kling, K. A. Meyer, G. J. Dick. 2017. Metagenomic and transcriptomic evidence suggests *Microcystis* is dependent on heterotrophic bacteria for mitigation of oxidative stress caused by exogenous hydrogen peroxide. Ecological Society of America Annual Meeting, 6-11 August, Portland, OR.
- Smith, D. J., T. W. Davis, M. A. Berry, R. M. Cory, V. J. Denef, T. Johengen, G. W. Kling, K. A. Meyer, G. J. Dick. 2017. *Microcystis* is dependent on heterotrophic bacteria for mitigation of

- oxidative stress caused by exogenous hydrogen peroxide. Gordon Research Conference, Mycotoxins and Phycotoxins, 17-18 June, Stonehill College, Easton, MA.
- Kling, G. W., G. Kipphut, N. Bettez, J. Dobkowski, A. Giblin, J. Hobbie, G. Shaver, and V. Romanovsky. 2016. Toolik Lake: A 40-year record of geochemical change in the Arctic. *Societas Internationale Limnologie*, XXXIII International Congress, 31 Aug – 5 July, Torino, Italy. P. 34.
- Kling, G. W., B. T. Neilson, B. Cardenas, R. M. Cory. 2016. Controls on dissolved organic matter photo-degradation in surface waters: residence time and the role of light versus substrate limitation. Association for the Sciences of Limnology and Oceanography, Summer Meeting, 5-10 June, Sante Fe, NM. P. 25.
- O'Connor, M.T., M. B. Cardenas, B.T. Neilson, M.H. Kaufman, and G.W. Kling. 2016. Controls on shallow groundwater flow and its implications on carbon processing in an arctic watershed. XI. International Conference on Permafrost, 20 - 24 June 2016, Potsdam, Germany.
- Cory, R., C. Ward, B. Crump, G. Kling. Sunlight controls water column processing of carbon in Arctic freshwaters. *Societas Internationale Limnologie*, XXXIII International Congress, 31 Aug – 5 July, Torino, Italy. P. 34.
- Li, A., A. F. Aubeneau, T. King, R. M. Cory, B. T. Neilson, G. W. Kling, D. Bolster, and A. I. Packman. 2016. Effects of In-stream Mixing on Photo-mineralization of Dissolved Organic Carbon in Arctic Rivers. American Geophysical Union, Union Fall Meeting, San Francisco, CA, December 12-16, 2016.
- Eugster, W., Del Sontro, T., Shaver, G. R., Kling, G. W. 2016. Methane concentration variations in water and effluxes measured above the water surface at Toolik Lake, Alaska. Association for the Sciences of Limnology and Oceanography, Summer Meeting, 5-10 June, Sante Fe, NM. P. 41.
- Cory, R. M., C. P. Ward, B. C. Crump, G. W. Kling. 2016. Photodegradation of dissolved organic carbon in arctic inland. Association for the Sciences of Limnology and Oceanography, Summer Meeting, 5-10 June, Sante Fe, NM. P. 25.
- Neilson, B.T., M.B. Cardenas, M. T. O'Connor, M. T. Rasmussen, T.V. King, R. M. Cory, G.W. Kling. 2016. Groundwater controls on DOC transport to Arctic streams and rivers. American Geophysical Union, Union Fall Meeting, San Francisco, CA, December 12-16, 2016.
- Cory, R., C. Ward, B. Crump, G. Kling. 2016. Relating Carbon Chemistry to Rates and Mechanisms of DOM Degradation: Implications for Arctic Amplification of Global Warming. Gordon Research Conference, 26 June – 1 July, Holderness School, NH.
- Kling, G. W., W.C. Evans, M. Kusakabe, G.Z. Tanyileke, I. Issa, Y. Yoshida, T. Ohba, F. Hirslund, and J. V. Hell. 2016. On the Dangers and Solutions in Gas-Charged Lakes – Lessons from Nyos and Monoun (Keynote). IAVCEI Commission on Volcanic Lakes, 9th International Meeting, 14-24 March, Yaoundé, Cameroon, p. 23.
- Evans, W. C., G. Z. Tanyileke, and G. W. Kling. 2016. Gassy lakes like Nyos and Monoun – Why so rare? IAVCEI Commission on Volcanic Lakes, 9th International Meeting, 14-17 March, Yaoundé, Cameroon.
- Smith, D. J., M. A. Berry, R. M. Cory, V. J. Deneff, T. Johengen¹, G. W. Kling, K. A. Meyer, T. W. Davis, G. J. Dick. 2016. Hydrogen peroxide is a major environmental driver of microbial community composition and toxicity during a Lake Erie cyanobacterial harmful algae bloom. American Society for Microbiology, Michigan Spring Meeting, 22-23 April, Grand Rapids, MI.

- Nalven, S. G., Crump, B. C., Ward, C. P., Cory, R. M., Kling, G. W., 2016. Decoding DOC degradation with metatranscriptomics: How is microbial metabolism altered when carbon source has been exposed to sunlight? Arctic LTER Annual Meeting, Woods Hole, MA, April 6-8, 2016.
- Nalven, S. G., Crump, B. C., Ward, C. P., Cory, R. M., Kling, G. W., 2016. Decoding DOC degradation with metatranscriptomics: How is microbial metabolism altered when carbon source has been exposed to sunlight? Department of Energy Joint Genome Institute Annual Users Meeting, Walnut Creek, CA, March 21-23, 2016.
- Kling, G., G. Kipphut, N. Bettez, J. Dobkowski, A. Giblin, J. Hobbie, V. Romanovsky. 2015. Toolik Lake: A 40 year record of geochemical change in the absence of trends in thaw depth, precipitation, and air and water temperatures. PN 90, NSF Long-Term Ecological Research All Scientist Meeting, August 30 – September 2, Estes Park, CO.
- OConnor, M., Cardenas, M., Neilson, B. T., Kling, G. W. 2015. Controls on arctic groundwater flow and its impacts on carbon processing. Paper No. 51-9, Geological Society of America Annual Meeting, 1-4 November, Baltimore, MD.
- Cory, R., B. Neilson, K. Harrold, C. Ward, G. Kling. 2015. Controls on dissolved organic matter (DOM) degradation in a headwater stream: the influence of photochemical and hydrological conditions. PN 29, NSF Long-Term Ecological Research All Scientist Meeting, August 30 – September 2, Estes Park, CO.
- Nalven, S. G., Kling, G. W., Crump, B. C. 2015. Seasonal changes in diversity and metabolic potential of freshwater microbial communities in an arctic lake. American Geophysical Union Fall Meeting, San Francisco, CA, December 14-18, 2015.
- Shaver, G., B. Bowden, P. Budy, A. Giblin, L. Gough, G. Kling, E. Rastetter. 2015. Arctic LTER: Climate Change and Changing Disturbance Regimes in Arctic Landscapes. PN 75, NSF Long-Term Ecological Research All Scientist Meeting, August 30 – September 2, Estes Park, CO.
- Li, A., A. F. Aubeneau, T. King, R. M. Cory, B. T. Neilson, G. W. Kling, D. Bolster, and A. I. Packman. 2014. Stochastic Modeling of Carbon Photo-mineralization along Arctic Rivers. American Geophysical Union Annual Meeting, 15-19 December, San Francisco, CA, Session H51N-0808.
- Cory, R.M., C.P. Ward, B.C. Crump, G.W. Kling. (2014) *invited*. Sunlight controls water column processing of carbon in arctic freshwaters. American Geophysical Union (AGU) Fall Meeting. San Francisco, CA.
- DelSontro, T., Eugster, W., Kling, G.W., Sollberger, S., Shaver, G.R., Wehrli, B. 2014. High resolution CH₄ emissions and dissolved CH₄ measurements help constrain surface gas emission dynamics in an Arctic Lake (Toolik Lake, Alaska). ASLO Aquatic Sciences Meeting, 18-23 May 2014, Portland, OR.
- Cory, R.M., S.E. Page, G.W. Kling, M. Sander, K.H. Harrold, K. McNeill. (2014) *invited*. Shedding “dark” on the oxidation of dissolved organic matter by hydroxyl radical in arctic soils and surface waters. American Geophysical Union (AGU) Fall Meeting. San Francisco, CA.
- Eugster, W., Kling, G.W., Del Sontro, T., Sollberger, S., Shaver, G.R., Wehrli, B., Schubert, C., Hiller, R. 2014. Eddy covariance on lakes. Keynote lecture held at the International Workshop “Advancing the science of gas exchange between fresh waters and the atmosphere”, Hyytiälä, Finland, 16–19 September 2014.
- Crump, B.C. and G.W. Kling. 2014. Biogeography of bacteria in streams and rivers: influence of environmental conditions and dispersal. Association for the Sciences of Limnology and Oceanography Joint Meeting, 18-23 May, Portland, OR.

- Cory, R.M., C.P. Ward, B.C. Crump, G.W. Kling. 2014. The fate of carbon draining permafrost soils is controlled by photochemical reactions in addition to microbial degradation in arctic surface waters. THAW 2014 - Thermokarst Aquatic ecosystems Workshop: Freshwater ecosystems in changing permafrost landscapes. Quebec City, Canada.
- Crump, B. C., Amaral-Zettler, L. A., and G. W. Kling. 2014. Microbial diversity in arctic freshwaters overlying permafrost is structured by inoculation of microbes from soils. THAW 2014 - Thermokarst Aquatic ecosystems Workshop: Freshwater ecosystems in changing permafrost landscapes. March 12-15, 2014, Quebec City, Quebec, Canada.
- Kendrick, M.R., A.D. Huryn, E.B. Scheutt, W.B. Bowden, B.J. Peterson, L.A. Deegan, and G.W. Kling. 2014. River ecosystems in a changing Arctic: Using Long-Term Ecological Research (LTER) data to assess recent change. Association for the Sciences of Limnology and Oceanography Joint Meeting, 18-23 May, Portland, OR.
- Crump, B. C., and G. W. Kling. 2014. Biogeography of bacteria in streams and rivers: influence of environmental conditions and dispersal. Joint Aquatic Sciences Meeting, Portland, OR, USA, May 18-23, 2014.
- Kling, G. W., C. Ward, J. Dobkowski, B. C. Crump, B. Nielson, R. M. Cory. 2013. Thawing permafrost C released as DOC to the surface during thermokarst failures is degraded mostly by photochemical reactions in arctic surface waters. American Geophysical Union Annual Meeting, 9-13 December, San Francisco, CA. Session B071.
- DelSontro, T., Eugster, W., Kling, G.W., Sollberger, S., Shaver, G.R., Wehrli, B. 2013. High resolution CH₄ emissions and dissolved CH₄ measurements elucidate surface gas exchange processes in Toolik Lake, Arctic Alaska. AGU Fall Meeting, 9-13 Dec 2013, San Francisco, CA.
- Cory, R. M., S. E. Page, G. W. Kling, M. Sander, K. H. Harrold, K. McNeill. 2013. The role of iron and reactive oxygen in the degradation of dissolved organic matter in the Arctic. American Geophysical Union Annual Meeting, 9-13 December, San Francisco, CA. Session B035.
- Eugster, W., T. DelSontro, S. Sollberger, G. R. Shaver, and G. W. Kling. 2013. Daily to interannual variations of CH₄ and CO₂ fluxes from a deep lake in Arctic Alaska. EGU General Assembly, Vienna (Austria), Geophysical Research Abstracts, Vol. 15, EGU2013-7629.
- Cory, R.M., S.E. Page, G.W. Kling, M. Sander, K.H. Harrold, K. McNeill. (2013) *invited*. Going to the dark side: a new pathway for the oxidation of dissolved organic matter in arctic soil waters. Chapman Conference on AGU Chapman Conference on Soil-mediated Drivers of Coupled Biogeochemical and Hydrological Processes Across Scales, Biosphere 2, University of Arizona, Oracle, AZ.
- Luecke, C., P. Budy, A. E. Giblin, and G. W. Kling. 2013. Response of shallow and deep lakes to low level nutrient addition in the sub-arctic region of northern Alaska. American Society of Limnology and Oceanography Science Meeting, 17-22 February, New Orleans, LA, p. 101.
- Hobbie, J. E., G. R. Shaver, and G. W. Kling. 2013. The integrated effects of warming are obvious in the physics, chemistry, and ecology of tundra at the arctic Alaska LTER site despite no significant warming trend since climate measurements began in 1989. 98th Ecological Society of America annual meeting, 4-9 August, Minneapolis, MN.
- DelSontro, T., Eugster, W., Sollberger, S., Shaver, G. R., Kling, G. W. and Wehrli, B. 2013. High resolution CH₄ emissions and dissolved CH₄ measurements elucidate surface gas exchange processes in Toolik Lake, Arctic Alaska. Pergamon Final Symposium, Kiel, 5-7 November 2013.

- Hobbie, J., and G. W. Kling. 2012. The Long-Term Record of an Arctic Alaskan Lake in a Warming Climate: No Ecological Change Yet But Experiments Yield Predictions. American Society of Limnology and Oceanography, Annual Science Meeting, 8-13 July, Lake Biwa, Shiga, Japan, p. 35.
- Daniels, W., A. Giblin, P. Budy, G. Kling, and C. Luecke. 2012. Low-level nutrient addition drives hypolimnetic hypoxia in a deep arctic lake. Triennial All Scientist meeting of the NSF LTER program, Estes Park, CO, 10-13 September, number 227.
- Eugster, W., A.V. Rocha, G. W. Kling, G. R. Shaver, L. Merbold, D. Imer, J. Stieger, R. Hiller, N. C. Buchmann. 2012. Getting control over spatial variability in CH₄, N₂O and CO₂ flux measurements – Examples from Switzerland and Alaska. American Geophysical Union meeting, 3-7 December 2012, San Francisco, CA.
- Eugster, W.; Kling, G.W. (2012) A low-cost approach to measure ambient methane concentrations in preliminary studies. 10th Swiss Geoscience Meeting, Bern (Switzerland), 17 November 2012.
- Neilson, B. T., M. F. Merck, R. M. Cory, and G. W. Kling. 2011. Combining Natural Tracers to Identify Flow Paths in Arctic Beaded Streams. American Geophysical Union Fall Meeting, December 2011, Abstracts 12/2011.
- Kling G.W., C. Johnson, A. Balsler, T. Coolidge, W.B. Bowden, A. Giblin. 2010. The impacts of thermokarst failures on lakes: rapid attenuation of major impacts gives way to potential long-term effects on benthic processes. American Geophysical Union meeting, 13-17 December, San Francisco, CA, GC52A-04.
- Cory, R.M. and G.W. Kling. 2010. Dynamics of photochemical and microbial processing of newly exposed terrestrial DOM in arctic surface waters. *Invited presentation*, American Geophysical Union meeting, 13-17 December, San Francisco, CA, B11I-07.
- Allen, A.R., W.B. Bowden, G.W. Kling, E. Schuett, J.M. Kostrzewski, C. Kolden Abatzoglou, R.H. Findlay. 2010. Tundra fire alters stream water chemistry and benthic invertebrate communities, North Slope, Alaska. American Geophysical Union meeting, 13-17 December, San Francisco, CA, GC43A-0958.
- Shaver, G.R., A.V. Rocha, G.W. Kling, M.C. Mack. 2010. Impacts of wildfire on biogeochemistry and energy balance of the North Slope of Alaska. American Geophysical Union meeting, 13-17 December, San Francisco, CA, GC51J-07.
- Bowden, W.B., C. Maki, E. Schuett, A.R. Allen, J.R. Larouche, G.W. Kling. 2010. Impacts of a large and intense tundra wildfire on the hydrological export of carbon, nitrogen, and phosphorus. American Geophysical Union meeting, 13-17 December, San Francisco, CA, GC51J-08.
- Del Sontro, T., S. Sollberger, G.W. Kling, G.R. Shaver, B. Wehrli, W. Eugster. 2013. High resolution CH₄ emissions and dissolved CH₄ measurements elucidate surface gas exchange processes in Toolik Lake, Arctic Alaska. American Geophysical Union Annual Meeting, 9-13 December, San Francisco, CA. Session B030.
- Kling, G. W., Keller, K., Kipphut, G., Bettez, N., Giblin, A., Hobbie, J. 2009. Ecosystem change in the Arctic: a 30-year record of geochemical transformations in Toolik Lake. NSF - Long Term Ecological Research Network All Scientists Meeting, 14-16 September, Estes Park, CO, #324.
- Barbrow, S. K., B. C. Crump, G. W. Kling. 2009. Spatial and Temporal Patterns of Bacterial Communities in Toolik Lake. NSF - Long Term Ecological Research Network All Scientists Meeting, 14-16 September, Estes Park, CO, #318.

- Allen, A., B.J. Peterson, A.D. Huryn, E.B. Schuett, S.M. Parker, G.W. Kling. 2009. First-year effects of tundra fire on benthic macroinvertebrate communities in streams on the North Slope, Alaska. NSF - Long Term Ecological Research Network All Scientists Meeting, 14-16 September, Estes Park, CO, #201.
- Rastetter, E. B., M. Williams, K. L. Griffin, B. L. Kwiatkowski, G. Tomasky, M. J. Potosnak, P. C. Stoy, G. R. Shaver, M. Stieglitz, J. E. Hobbie, and G. W. Kling. 2009. Assimilating arctic C flux data into an ecosystem model using the Ensemble Kalman Filter. Ecological Society of America annual meeting, 2-7 August, Albuquerque, New Mexico.
- Schuett, E. B., W. B. Bowden, L. Deegan, and G. W. Kling. 2009. First-year effects of and unusual tundra fire on an arctic stream. North American Benthological Society 57th International Meeting, Grand Rapids, MI, 16-23 May, #349.
- Lelli, M. L., J. David Allan, T. Johengen, and G. W. Kling. 2009. Net daily metabolism in agricultural drainage ditches. North American Benthological Society 57th International Meeting, Grand Rapids, MI, 16-22 May, #412.
- Allen, Angela R. Allen, B. J. Peterson, A. D. Huryn, E. B. Schuett, S. M. Parker, and G. W. Kling. 2009. First-year effects of tundra fire on benthic macroinvertebrate communities in streams on the North Slope, Alaska. North American Benthological Society 57th International Meeting, Grand Rapids, MI, 16-23 May, #352.
- Kling, G. W., Keller, K. A., Kipphut, G. W., Bettez, N., Giblin, A. E. 2008. Climate change: what's coming down the pike for lakes may be from land. American Society of Limnology and Oceanography, International Meeting, 8-13, St. John's Newfoundland. p. 45.
- Hobbie, J. E. and G. W. Kling. 2008. Measures and Changes in an Arctic Lake in Alaska: Chemical Changes as Indicators of Climate Change in a Sentinel Lake. AGU Chapman Conference, Special Issue of Limnology & Oceanography, Lake Tahoe, Nevada, USA, 8-10 September 2008.
- Adams, H. E., Crump, B. C., and G. W. Kling. 2008. Downstream dispersal and activity of bacteria. American Society of Limnology and Oceanography, International Meeting, 8-13, St. John's Newfoundland. p. 1.
- Evans, M. A. and G. Kling. 2007. Shifting climate and frequency of storms as controls of terrestrial-aquatic linkages and aquatic productivity. Workshop on 'High-Latitude Terrestrial and Freshwater Ecosystems', 11 - 14 September 2007, Abisko, Sweden.
- Adams, H., J. Kostrzewski, A. Larsen, B. Crump, and G. Kling. 2007. Downstream processing of terrestrially-derived carbon by bacteria in lakes and streams in an arctic catchment, Alaska, USA. Workshop on 'High-Latitude Terrestrial and Freshwater Ecosystems', 11 - 14 September 2007, Abisko, Sweden.
- Rantala, H., A. Huryn and G. Kling. 2007. Landscape control of biological attributes of connecting streams within a chain of Arctic lakes. North American Benthological Society 55th International Meeting, Columbia, S.C., 3-7 June.
- Kling, G. W., D. R. Zak, K. E. Judd. 2006. Microbial communities and organic matter processing. 2006. Triennial All Scientist meeting of the NSF LTER program, Estes Park, CO, 20-23 September. <http://www.lternet.edu/asm/2006/posters/schedule.php>
- Crump, B. C., H. E. Adams, F. Chen, J. E. Hobbie, J. Kan, and G. W. Kling. 2006. Synchrony and seasonality in bacterioplankton community composition. 11th International Symposium on Microbial Ecology, Vienna, Austria, August 20-25, 2006.

- Adams, H.E., B. Crump, and G. W. Kling. 2006. Bacterial physiological adaptation versus structural shifts in community composition. Triennial All Scientist meeting of the NSF LTER program, Estes Park, CO, 20-23 September. <http://www.lternet.edu/asm/2006/posters/schedule.php>
- Rantala, H., A. Huryn and G. Kling. 2006. Litter processing in connecting streams along a chain of arctic lakes. Triennial All Scientist meeting of the NSF LTER program, Estes Park, CO, 20-23 September. <http://www.lternet.edu/asm/2006/posters/schedule.php>
- Evans, M. A. and G. W. Kling. 2006. Internal wave effects on photosynthesis: experiments, theory, and modeling. Triennial All Scientist meeting of the NSF LTER program, Estes Park, CO, 20-23 September. <http://www.lternet.edu/asm/2006/posters/schedule.php>
- Kling, G. W. and S. Findlay. 2006. Microbial ecology across the landscape. American Society of Limnology and Oceanography, International Meeting, 4-9 June, Victoria, B.C., Canada, p. 65.
- Evans, M. A. and G. W. Kling. 2006. Interacting effects of lake morphology, nutrient enrichment, and storm event frequency on phytoplankton production. American Society of Limnology and Oceanography, International Meeting, 4-9 June, Victoria, B.C., Canada, p. 36.
- Adams, H., B. Crump, and G. Kling. 2006. Bacterioplankton community composition mediates the effects of temperature and nutrients on bacterial activity. American Society of Limnology and Oceanography, International Meeting, 4-9 June, Victoria, B.C., Canada, p. 4.
- Issa, T. Ohba, M. Kusakabe, G.W. Kling, W.C. Evans, G. Tanyileke, Y. Yoshida, H. Satake, J. V. Hell. 2006. Gas-killer Lakes Nyos and Monoun (Cameroon): assessment of environmental impacts after >5 years of degassing. 2nd AASPP, 17-18 December 2006, Dar es Salaam, Tanzania. p.40-43.
- Crump, B., H. Adams, J. Hobbie, and G. Kling. 2006. Mechanisms of spatial variability in bacterioplankton community composition among lakes and streams of an arctic tundra watershed. American Society of Limnology and Oceanography, International Meeting, 4-9 June, Victoria, B.C., Canada, p. 28.
- Verburg, P., R. Hecky, P. Ramlal, G. Kling, R. Mugidde, D. Vershuren. 2006. Organic ¹³C in lacustrine sediment and the Suess effect: divergence of productivity trends between shallow and deep water in the large African lakes. American Society of Limnology and Oceanography, International Meeting, 4-9 June, Victoria, B.C., Canada, p. 127.
- Kling, G.W., W.C. Evans, G. Tanyileke, M. Kusakabe, T. Ohba, Y. Yoshida. 2005. Defusing Certain Disaster: Results From Degassing Lakes Nyos And Monoun In Cameroon, West Africa. American Society of Limnology and Oceanography, International Meeting, 19-24 June, Santiago de Compostela, Spain.
- Judd, K., B. Crump, and G. Kling. 2005. Upslope dissolved organic matter controls bacterial activity through shifts in community composition. EOS, Trans. American Geophysical Union, 86(18), Jt. Assem. Suppl., Abstract B24A-04.
- Crump, B. Hobbie, J. E., Adams, H. E., and G. W. Kling. 2005. Shifts in bacterioplankton community composition across a landscape: influence of bacterial production and lake residence time. American Society of Limnology and Oceanography, Annual meeting, 20-25 February, Salt Lake City, UT.
- Castillo, M M ; Allan, J D ; Kling, G W. 2005. Effects of ENSO on concentrations and export of nutrients, carbon, and suspended solids in rivers of the Orinoco Basin. American Society of Limnology and Oceanography, International Meeting, 19-24 June, Santiago de Compostela, Spain.

- Evans, M.E., S. MacIntyre, and G. W. Kling. 2005. Internal waves stimulate phytoplankton primary production: results of in situ experiments and modeling. American Society of Limnology and Oceanography, International Meeting, 19-24 June, Santiago de Compostela, Spain.
- Crump, B.C., J.E. Hobbie, H.E. Adams, and G.W. Kling. 2004. Shifts in bacterioplankton community composition across a landscape: influence of bacterial production and lake residence time. Poster for International Society of Microbial Ecology, ISME-10, 22-27 August 2004, Cancun, Mexico, p. 304.
- Kusakabe, M, T. Ohba, Y. Yoshida, G. Tanyileke, W. C. Evans and G. W. Kling. 2004. Effects of Degassing of Lakes Nyos and Monoun, Cameroon, on their physico-chemical structures. IAVCEI International meeting, Pucon, Chile, 14-18 November.
- Kling, G.W., D.R. Zak, and K. Judd. 2004. Microbial communities and organic matter processing in heterogeneous environments – are there patterns or redundancies at landscape scales? International Society of Microbial Ecologists, Society Meeting 22-27 August, Mexico, page 37.
- Burkart, G., Luecke, C., Gettel, G. M., Evans, M. A.; Valicenti, L.; Gay, M.; Giblin, A.; Kling, G. W. 2004. Benthic-pelagic linkages in arctic lakes: Interactions between nutrients, algae, zooplankton, pelagic subsidies, chironomids and fish. 89th Annual Meeting of the Ecological Society of America, August 1-6, 2004, Portland, OR, USA. Vol. 89, p. 73.
- Judd, K., B. Crump, G.W. Kling. 2004. Natural variation of dissolved organic matter controls rates of bacterial production and structures bacterial communities. International Society of Microbial Ecologists, Society Meeting 22-27 August, Mexico, page 144.
- Kling, G.W., K. Judd, M. Sommerkorn, K. Nadelhoffer, E. Rastetter, and L. Johnson. 2003. Transfers of carbon across the landscape – the controls on DOC, CO₂, and CH₄ production in soils. Ecological Society of America, 88th Annual Meeting, 3-8 August 2003, Savannah, GA. p. 185.
- Sommerkorn, M., K. Nadelhoffer, L. Johnson, G.W. Kling, and E. Rastetter. 2003. Carbon and nitrogen allocation of tundra plants assessed through an ecosystem scale dual tracer experiment. Ecological Society of America, 88th Annual Meeting, 3-8 August 2003, Savannah, GA. p. 315.
- Kusakabe, M., K. Nagao, T. Ohba, Y. Yoshida, G. Tanyileke, G.W. Kling, and W.C. Evans. 2003. Lakes Nyos and Monoun, Cameroon: Current status. 2003 Goldschmidt Conference, September, Japan. *Geochimica et Cosmochimica Acta* 67(18): a244.
- Judd, K.E., B.C. Crump, D.R. Zak, R.L. Sinsabaugh, and G. W. Kling. 2003. Dissolved organic carbon in soils, streams, and lakes of an arctic catchment: linking bioavailability, chemistry, and microbial community composition. Ecological Society of America, 88th Annual Meeting, 3-8 August 2003, Savannah, GA. p. 173.
- Kling, G. W. 2002. Landscape mass balance and the coupling of processes in lakes and streams. American Society of Limnology and Oceanography, International Meeting, 10-14 June 2002, Victoria, BC, Canada. p. 66.
- Crump, B.C., M. Bahr, G. W. Kling, and J. E. Hobbie. 2002. Shifts in the microbial community composition of an arctic lake in response to seasonal shifts in organic matter supply. American Society of Limnology and Oceanography, International Meeting, 10-14 June 2002, Victoria, BC, Canada. p. 35.
- MacIntyre, S., G. W. Kling, G. Kipphut, J. Hobbie, J., J. Sickman. 2002. Impacts Of Spring Runoff And Storm Inflows On Lake Productivity. American Society of Limnology and Oceanography, International Meeting, 10-14 June 2002, Victoria, BC, Canada. p. 73.

- Sommerkorn, M., K. Nadelhoffer, E. Rastetter, G.W. Kling, L. Johnson, G. Shaver. 2001. Developing Process-Level Understanding of Controls on Belowground Carbon and Nutrient Dynamics in Tundra Ecosystems. International Union of Soil Science, Third International Conference on Cryopedology, 20-24 August, Copenhagen.
- Eugster, W., G. Kling, T. Jonas, A. Wüest, and S. MacIntyre. 2001. Eddy Covariance CO₂ Efflux Measurements From an Arctic Alaskan and a Mid-latitude Swiss Lake. *Geophys. Research Abstracts*, 3, 4249.
- Hobbie, J., G.W. Kling, and M. Bahr. 2000. Organic matter input and use during spring runoff into an arctic lake. American Society of Limnology and Oceanography, International Meeting, 1-5 June 2000, Copenhagen, p. 86.
- Williams, E.L., Ku, T.C.W., Walter, L.M., Kling, G.W., and Zak, D.R. 2000. Controls on Mineral Weathering in an Elevated CO₂ World: Insights from a Field-Scale Experiment in a Forested Watershed, Northern Michigan. Geological Society of America, Annual Meeting, Fall 2000.
- Hu, F.S., W.W. Oswald, L.B. Brubaker, and G.W. Kling. 2000. Geomorphic and Climatic Controls over Holocene Soil Development on the Arctic Foothills of Alaska. Ecological Society of America, Annual Meeting, 6-10 August, Snowbird, Utah.
- Bowden, W.B., K.J. Edwards, C. Pruden, G.W. Kling, and K.J. Riseng. 2000. Controls on nutrient processing in hyporheic substrates from an arctic tundra stream. North American Benthological Society, National Meeting, 28May - 1June, Keystone CO.
- Oswald, W., F.S. Hu, L. Brubaker, and G. Kling. 2000. Geomorphic and Climatic Controls on Holocene Ecosystem Changes in the Arctic Foothills of Alaska. American Geophysical Union, National Meeting, 13-17 December, San Francisco. AGU .
- Stieglitz, M., A. Giblin, J. Hobbie, M. Williams, and G. Kling. 1999. Climate, water, and carbon: Modeling CO₂ flux variability in arctic tundra. American Geophysical Union, National Meeting, 13-17 December, San Francisco. AGU 80(46):F64.
- Kling, G. W., W. Eugster, and S. MacIntyre. 1999. The Flux of CO₂ and CH₄ From Surface Waters to the Atmosphere is High, But Might it be Even Higher? Proceedings of the Annual meeting of NSF-Arctic System Science, Land-Air-Ice-Interactions. 11-13 March, Seattle, Washington, p. 57-58.
- Kling, G. W., J.Y. King, K.K. Thieler, W.S. Reeburgh, K.J. Nadelhoffer, and L.C. Johnson. 1999. Dissolved C Dynamics Control CO₂ and CH₄ Release from the Tundra. Proceedings of the Annual meeting of NSF-Arctic System Science, Land-Air-Ice-Interactions. 11-13 March, Seattle, Washington, p. 56.
- Brubaker, L.B., W.W. Oswald, F.S. Hu and G.W. Kling. 1999. Effects of climate-landscape interactions on vegetation, soil processes, and carbon storage in arctic Alaska during the Holocene. Proceedings of the Annual meeting of NSF-Arctic System Science, Land-Air-Ice-Interactions. 11-13 March, Seattle, Washington, p. 42.
- Nadelhoffer, K.J., K.K. Thieler, M.R. Downs, L.C. Johnson, W.M. Loya, G.W. Kling, J.Y. King, and W.S. Reeburgh. 1999. Plant Carbon Allocation in Moist and Wet Tundra Mesocosms. Proceedings of the Annual meeting of NSF-Arctic System Science, Land-Air-Ice-Interactions. 11-13 March, Seattle, Washington, p. 68.
- Walter, L.M., L.M. Abriola, J.M. Budai, G.W. Kling, P.A. Meyers, J.A. Teeri and D.R. Zak. 1999. Carbon exchange dynamics in a temperate forested watershed (northern Michigan). Proceedings of the EPA-NSF Water and Watersheds Program Review, 19-21 April, Silver Springs, MD, p. 111-112.

- Kling, G.W., J.E. Hobbie, P.A. Rublee, G.W. Kipphut, M. Bahr and N. Bettez. 1999. Bacterial processing of DOC - what controls are really important at an ecosystem scale? American Society of Limnology and Oceanography, National Meeting, 1-5 February 1999, Santa Fe, New Mexico. p. 101.
- Loya, W.M., L.C. Johnson, K.J. Nadelhoffer, and G.W. Kling. 1999. Tracing carbon flow into the microbial biomass and soil organic matter in Alaskan arctic tundra. Proceedings of the Annual meeting of NSF-Arctic System Science, Land-Air-Ice-Interactions. 11-13 March, Seattle, Washington, p. 62.
- Hobbie, J., B. Peterson, N. Bettez, L. Deegan, J. O'Brien, G. Kling, G. Kipphut. 1999. Impact of global change on biogeochemistry and ecosystems of freshwaters. American Society of Limnology and Oceanography, National Meeting, 1-5 February 1999, Santa Fe, New Mexico. p. 86.
- Kling, G. W. 1998. Carbon cycling in arctic regions. Abstracts of the 10th annual meeting of the Arctic Research Consortium of the U.S., 22-24 March, Smithsonian Institute, Washington D.C.
- Walter, L., J. Budai, T. Ku, L. Abriola, Y.-M. Chen, D. Zak, G. Kling, P. Meyers, & K. Baptist. 1998. Carbon exchange dynamics and mineral weathering in a temperate forested watershed. The Eighth Annual V.M. Goldschmidt Conference, 30 August - 3 September, Toulouse, France.
- Kling, G. W. and J. E. Hobbie. 1997. Ten years of work on bacteria - what did they teach us? American Society of Limnology and Oceanography, National Meeting, 10-14 February 1997, Santa Fe, New Mexico. p. 210.
- Kling, G. W. 1997. Patterns and causes of CO₂ saturation in surface waters at landscape and continental scales: results of a multi-investigator workshop. American Society of Limnology and Oceanography, National Meeting, 10-14 February 1997, Santa Fe, New Mexico. p. 210.
- Ramlal, P. S., G. W. Kling, and R. Mugidde. 1997. Seasonal and spatial differences in surface water POM in Lake Victoria, East Africa. American Society of Limnology and Oceanography, National Meeting, February 1997, Santa Fe, New Mexico, p.277.
- Kling, G. W., G. Kipphut, W. B. Bowden, K. Edwardson. 1996. Carbon balance in arctic regions: the role of lakes and streams. American Geophysical Union, National Meeting, 15-19 December, San Francisco. p. F257.
- Kling, G., F. Bugenyi, A. Giblin, R. Hecky, J. Kitchell, S. MacIntyre, P. Ramlal, P. Reinthal. 1996. Ecosystem Processes in Lake Victoria - from mud to fish. Great Lakes of the World Symposium, 15-19 July 1996, Victoria Falls, Zimbabwe.
- Hobbie, J. E., G. W. Kling, P. A. Rublee. 1996. Controls of bacterial numbers and productivity in an arctic lake. Ecological Society of America, National Meeting, 11-15 August 1996, Providence, Rhode Island, p.197.
- Mugidde, R., R. Hecky, G. Kling. 1996. Spatial-temporal variation of phytoplankton primary production in Lake Victoria, Uganda. Great Lakes of the World Symposium, 15-19 July 1996, Victoria Falls, Zimbabwe.
- Ramlal, P., L. Ndawula, R. Mugidde, G. Kling, R. Hecky. 1996. Diurnal Fluctuations in P_{CO2}, DIC, and oxygen at inshore sites in Lake Victoria, Uganda. Great Lakes of the World Symposium, 15-19 July 1996, Victoria Falls, Zimbabwe.
- Kling, G. W., R. Mugidde, P. S. Ramlal, R. E. Hecky. 1996. Carbon Dynamics in lake Victoria -- where did all the CO₂ go? American Society of Limnology and Oceanography, National Meeting, 16-20 June 1996, Milwaukee, Wisconsin, p. 62.

- Giblin, A., F. Bugenyi, G. Kling, P. Ramlal, M. Magumba. 1996. Respiration and nutrient release from Lake Victoria sediments: effects of anoxia and added sulfate concentrations. American Society of Limnology and Oceanography, National Meeting, 16-20 June 1996, Milwaukee, Wisconsin, p. 51.
- Kling, G. W., G. W. Kipphut, W. B. Bowden, C. Dahm. 1995. Using SF₆ to estimate the flux of CO₂ and CH₄ from arctic streams. American Society of Limnology and Oceanography, National Meeting, 11-15 June, Reno, Nevada, p. 27.
- Hobbie, J. E., M. Bahr, G. W. Kipphut, G. W. Kling. 1995. Bacteria and the utilization of DOC during spring runoff in an arctic lake. American Society of Limnology and Oceanography, National Meeting, 11-15 June, Reno, Nevada, p. 20.
- Rublee, P. A., J. E. Hobbie, N. Bettez, G. W. Kling. 1995. Microplankton in oligotrophic arctic LTER lakes: tight couplings and limited role. American Society of Limnology and Oceanography, National Meeting, 11-15 June, Reno, Nevada, p. 48.
- Kling, G. W., T. Kratz and J. Cole. 1993. Carbon Dynamics in aquatic ecosystems: continental-scale patterns and landscape-scale processes. NSF Long-Term Ecological Research Meeting, 18-24 September, Estes Park, CO. p. 9.
- Cole, J. J., N. F. Caraco, G. E. Likens and G. W. Kling. 1993. Measured and calculated PCO₂ indicate that lakes are a source, not a sink, for atmospheric CO₂. American Society of Limnology and Oceanography, National Meeting, 30 May - 3 June, Edmonton, Alberta.
- Kling, G. W., W. C. Evans, M. L. Tuttle, and G. Tanyileke. 1992. Forecasting the endpoints of geochemical evolution in gas-rich lakes: equilibrium, gas bursts, or controlled degassing. International Symposium on Hazardous Crater Lakes, 19-24 October, Misasa, Japan. p. 3.
- Evans, W. C., L. D. White, M. L. Tuttle, G. W. Kling, G. Tanyileke, and R. Michel. 1992. Six years of change at Lake Nyos, Cameroon, yield clues to the past and cautions for the future. International Symposium on Hazardous Crater Lakes, 19-24 October, Misasa, Japan. p. 2.
- Kling, G. W., J. E. Hobbie, and P. A. Rublee. 1992. What controls the bacteria in lakes - algal DOC, terrestrial DOC, or grazing. American Society of Limnology and Oceanography, National Meeting, 9-14 February, Sante Fe, NM. p. 10.
- Kling, G. W. and B. J. Peterson. 1992. Pathways of nitrogen flow in whole lakes and rivers stressed by fertilization. Societas Internationalis Limnologiae, 25th International Meeting, 21-27 August, Barcelona, Spain. p. 314.
- Meili, M., B. Fry, G. W. Kling. 1992. The utilization of humic substances in pelagic food webs: evidence from natural isotopes (¹³C, ¹⁵N) in boreal forest lake food webs. American Society of Limnology and Oceanography, National Meeting, 9-14 February, Sante Fe, NM. p. 25.
- Kling, G. W. 1991. Stable isotopes and ecosystem-scale experiments in lakes. American Chemical Society, National Meeting, 14-19 April, Atlanta, GA. p. 71.
- Evans, W. C., L. D. White, M. L. Tuttle, G. W. Kling. 1991. Methanogenesis in gassy African lakes: an important release trigger. 10th International Symposium on Environmental Biogeochemistry, 19-23 August, San Francisco, CA. p. 12-13.
- Kling, G. W., A. E. Giblin, B. Fry, and B. J. Peterson. 1990. Control of lake alkalinity generation by seasonal turnover: experiments on sediment oxidation. American Society of Limnology and Oceanography, National Meeting, 10-15 June, Williamsburg, VA. p. 49.
- Kling, G. W., G. W. Kipphut, and M. C. Miller. 1990. Arctic lakes and streams as gas conduits to the atmosphere: implications for tundra carbon budgets. American Geophysical Union, National Meeting, December 1990, San Francisco, CA.

- Kling, G. W., B. Fry, M. C. Miller, and W. J. O'Brien. 1989. Tracing trophic interactions using ^{15}N additions to an arctic lake. American Society of Limnology and Oceanography, National Meeting, 18-22 June, Fairbanks, p.30
- Kling, G. W., W. C. Evans, and M. L. Tuttle. 1989. A comparative view of Lakes Nyos and Monoun, Cameroon, West Africa. *Societas Internationalis Limnologiae*, 24th International Meeting, 13-19 August, Munich, Germany. p. 204.
- Evans, W. C., S. Robinson, L. D. White, G. W. Kling, and M. L. Tuttle. 1989. Isotopic studies of lakes Nyos and Monoun, Cameroon. American Geophysical Union, National Meeting, San Francisco, CA, EOS vol. 70, p. 1377.
- Saunders, J. F., and G. W. Kling. 1988. Clams and water chemistry in the Colorado Front Range. American Society of Limnology and Oceanography, National Meeting, 12-16 June, Boulder, CO. p. 72.
- Kling, G. W. 1987. Seasonal mixing and catastrophic degassing in tropical lakes. North American Lakes Management Society, National Meeting, 3-7 November, Orlando, FL. p.41.

Publication Statistics

Citation indices	All	Since 2014
Citations	11194	5059
h-index	52	40
i10-index	109	84

Professional Experience:

- NSF-SEARCH Science Steering Committee Meeting, 6-7 September, NCAR, Boulder, CO.
- NSF-SEARCH Science Steering Committee Meeting, 12-13 March, NCAR, Boulder, CO.
- NSF-SEARCH Program Science Meeting, 27-29 June 2017, UAF, Fairbanks, AK.
- NSF LTER Program Site Review Team, *Lead*. Division of Environmental Biology, 2017.
- NSF-SEARCH Science Steering Committee Meeting, 24-25 May 2016, NCAR, Boulder, CO.
- NSF LTER Program Site Review Team, *Member*. Division of Environmental Biology and Division of Ocean Sciences, 2015.
- NSF-SEARCH Kick-Off Tactics Meeting, *Knowledge to Action for Arctic Science* 16–17 September 2014, NCAR, Boulder, CO.
- STEM-Africa International Conference, *Invited Speaker*. “Effective US Strategies for African STEM Collaborations, Capacity Building and Diasporas Engagements.” 1-4 April 2014, Ann Arbor, MI.
- OSTP (White House Office of Science and Technology Policy) - NSF Meeting. Interagency Prioritization, Implementation, and Sustaining of Long-term Arctic Observations, 28 January 2014, Washington, D.C.
- NSF Panel *Member*, Division of Environmental Biology, Washington, D.C., 2013.
- NASA/DOE Panel *Member*, Carbon Cycle Science, Washington, D.C., 2013.
- NAS – NRC Workshop, *Invitee*. Permafrost and Remote Sensing, 8-9 October 2013, Fairbanks AK.
- NSF Science Steering Committee Member for the Office of Polar Programs, Arctic System Science (SEARCH). Appointed October 2007 to present.

- NSF NEON (National Ecological Observatory Network) Science and Education Coordination Committee, Arctic Domain, 2009 to present.
- NSF – LTER Workshop on Microbial Ecology, Michigan State University, 11-13 November, 2007.
- University of Umea International Conference on High Latitude Terrestrial and Freshwater Ecosystems: Interactions and Response to Environmental Change, *Invited Speaker*. 11-14 September 2007, Abisko, Sweden.
- NSF Workshop, *Panel Member*. Study of Environmental Arctic Change (SEARCH), Implementation Workshop. Lansdowne, VA, May 2005.
- Stanford University, International Symposium, *Invitee*. Whole Earth Systems: Science, Technology and Policy. Palo Alto, February 2005.
- NSF Workshop, *Invitee*. Future Directions of Limnology. Boulder, CO, December 2002.
- NSF Workshop, *Plenary Speaker*. Biodiversity of Planktonic Communities: Scaling up and down. Ann Arbor, MI, October 2002.
- NAS Workshop, *Invitee*. Economic and Ecological Impacts of Abrupt Climate Change. Washington, D.C., March 2001.
- NSF Workshop, *Invitee*. Comparative Aquatic Research. Salt Lake City, February 2000.
- NSF American-Norwegian Workshop, *Invitee*. Arctic Research Opportunities. Svalbard, Norway, August 1999.
- NSF Symposium, *Invited Speaker*. **The Arctic Forum**. Smithsonian Institution, Washington D.C., March 1998.
- NSF Workshop, *Invitee*. The Role of High Latitude Ecosystems in the Global Carbon Cycle. The Ecosystems Center, Marine Biological Laboratory, Woods Hole, October 1997.
- Nordic Council of Ministers and Academy for Advanced Study Workshop, *Keynote Speaker*. Climate Change Effects on Northern Terrestrial and Freshwater Ecosystems. Arctic Centre, University of Lapland, Rovaniemi, Finland, September 1997.
- NSF Workshop, *Invitee*. Ecological Variability and Organization of Lake Districts. Trout Lake Station, University of Wisconsin, Trout Lake, February 1997.
- NSF Site Review, *Member*. NSF-DEB and NSF-OPP review of McMurdo Long Term Ecological Research site, Antarctica, January 1997.
- National Science and Technology Council Workshop, *Invitee*. National Environmental Monitoring and Research. Smithsonian Institution, Washington, D.C., September 1996.
- NAS Symposium, *Invitee*. Frontiers of Science. National Academy of Science's Beckman Center, Irvine, California, November 1996.
- NSF Panel *Member*, Division of Environmental Biology, Ecosystems Program. 1996-1999.
- NSF Workshop, *Invitee*. Inter-American Institute for Global Change, research directions. Experimental Lakes Area & Delta Marsh Station, Manitoba, August 1996.
- Chapman Conference, *member of Organizing Committee*. Crater lakes, terrestrial degassing, and hyper-acid fluids in the environment. Crater Lake, Oregon, September 1996.
- NSF Workshop, *Co-Organizer*. Direct Methods of Dissolved CO₂ Analysis. Experimental Lakes Area and Freshwater Institute, Manitoba, October 1995.
- NSF Workshop, *Invitee*. Arctic System Science, Land-Atmosphere-Ice Interactions. Orcas Island, Washington, March 1995.
- NSF Workshop, *Organizer*. Carbon Dynamics in Aquatic Ecosystems. Woods Hole, Massachusetts, February 1995.

- EPA - U.S. Geological Survey - NSF Workshop, *Invitee*. Freshwater Ecosystems and Climate Change in North America. Leesburg, Virginia, October 1994. NSF Advisory Panel, Office of Polar Programs. Arlington, Virginia, September 1994.
- NSF Workshop, *Co-Organizer*. CO₂ Saturation in Surface Waters. Trout Lake, Wisconsin, February 1994.
- MacArthur Foundation Conference, *Invitee*. Managing the Ecology of Africa's Fragile Lakes. Michigan State University, Lansing, Michigan, February 1994.
- NSF Workshop, *Invitee*. The Role of Biodiversity in Arctic and Alpine Tundra Ecosystems. Kongsvold, Norway, August 1993.
- NSF Workshop, *Invitee*. Biodiversity in Africa: Research Opportunities and Constraints. Arlington, Virginia, April 1993.
- NSF Workshop, *Invitee*. Biodiversity and Changes in the Lake Victoria Ecosystem. Uganda, August 1992.
- UNESCO Workshop, *Invitee*. Eliminating the Risks of Gas-charged African Lakes. Paris, France, September 1992.
- International Symposium, *Invitee*. Study and Mitigation of Hazardous Crater Lakes. Misasa, Japan, October 1992.
- Member Steering Committee, *Elected*. IAVCEI Commission on Crater Lakes, 1990-present.
- NSF Workshop, *Invitee*. The Use of Stable Isotopes in Ecological Research. Woods Hole, October 1989.
- National Workshop, *Invitee*. Scientific Research and High School Science Teachers. Marine Biological Lab, Woods Hole, October 1989.
- National Symposium, *Invitee*. North American Lake Management Society, Orlando, November 1987.
- National Symposium, *Invitee*. American Meteorological Society, Chapel Hill, November 1987.
- Member* of U.S. State Department scientific team sent to Cameroon, West Africa to investigate the Lake Nyos gas disaster, 1986.
- Consultant* to U.S. Ambassador and Cameroonian Minister of Higher Education and Scientific Research regarding hazard mitigation of the lethal Lakes Nyos and Monoun, Yaoundé, 1986-present.

Invited Seminars presented:

- “The Role of Microbes and Photochemistry in Arctic Carbon Cycling”, Presented at Miami University, Department of Microbiology, September 2016.
- “The Killer Lakes of Africa: Lethal Gas Bursts in Lakes and Oceans”, Presented at Miami University, Department of Biology, September 2016.
- “Taming the Killer Lakes of Africa”, Presented at the University of Michigan Saturday Morning Physics event, March 2010.
- Marine Biological Lab, “Semester in Environmental Science”, guest scientist for undergraduate course, public seminar to Woods Hole community, 22-23 October, 2009.
- Columbia University, Lamont-Doherty Earth Observatory, *Earth Science Colloquium*, and Biology and Paleo Environment Division seminar. October 2008.
- Michigan State University, *Invited speaker* for an NSF – LTER Workshop on Microbial Ecology, 11-13 November, 2007.

Abisko Research Station, Univ. of Umea, Sweden. *Invited Speaker*, International Conference on High Latitude Terrestrial and Freshwater Ecosystem, September 2007, Abisko, Sweden.
School of Natural Resources and Environment, Special seminar series, University of Michigan, November 2001.
Department of Zoology and Center for Limnology, visiting "*Kaesar Scholar*", University of Wisconsin, Madison, March 2000
Department of Biology, McGill University, Montreal, October 1997.
Department of Biological Sciences, University of Quebec, Montreal, October 1997.
Arctic Centre, University of Lapland, Rovaniemi. Keynote address, September 1997.
Department of Ecology, Evolution, and Behavior, "Lindeman Lecture", University of Minnesota, October 1996
Chapman Conference, Crater Lake, Oregon, September 1996.
Department of EPO Biology and INSTAAR, University of Colorado, February 1995.
Department of Environmental Science, Policy, and Management, University of California, Berkeley, February 1995.
Department of Geology, "Scott Turner Lecture", University of Michigan, January 1995.
University of Makawere, Uganda. May 1994 and 1995.
Goddard Space Flight Center, NASA, Washington, D.C., March 1994.
School for Public and Environmental Affairs, Indiana University, April 1991.
Department of Biology and Center for Great Lakes and Aquatic Sciences, University of Michigan, April 1991.
Department of Zoology, Arizona State University, March 1990.
Department of Biological Sciences, Notre Dame University, March 1990.
Institute for Ecosystem Studies, Cary Arboretum, Millbrook, March 1990.
Institute for Limnology, Uppsala University, Uppsala, Sweden, July 1990.
Kellogg Biological Laboratory, Michigan State University, January 1989.
The Ecosystems Center, Marine Biological Lab, Woods Hole, September 1987.
Limnological Research Center, University of Minnesota, November 1987.
Queen Mary College, University of London, 1986.

Professional Affiliations and Service (extramural):

Memberships:

American Association for the Advancement of Science
American Society of Limnology and Oceanography
American Geophysical Union
Ecological Society of America
International Society for Microbial Ecology
International Association of Volcanology and Chemistry of the Earth's Interior
East African Hydrobiological Society
North American Lake Management Society
Societas Internationalis Limnologiae

Service:

- Member*, Conference Organizing Committee, “*ARCTIC FUTURES 2050: Science to Inform Decisions*”. Supported by NSF, BOEM, DOE, ONR, NOAA; 4-6 September 2019, National Academy of Sciences, Washington, D.C.
- Vice Chair*, Science Steering Committee, NSF Division of Polar Programs, SEARCH. 2018 –
- Member*, Science Steering Committee, NSF Division of Polar Programs, SEARCH. 2007-2018.
- Member*, NSF PolarTREC Teacher Fellowship evaluation committee, 2015.
- Member*, NEON (National Ecological Observatory Network) - Science and Education Coordination Committee, Arctic Domain, 2009 – .
- Member*, NSF Arctic LTER Project Executive Committee, 1991 – .
- Chair*, Ruth Patrick Award Committee, American Society of Limnology and Oceanography. 2009-2011.
- Member*, Ruth Patrick Award Committee, American Society of Limnology and Oceanography. 2008.
- National Representative*, International Society of Limnology (SIL). Elected 2007-2009.
- Lead Author*, 2001 – , Special Report on the “Ecological Consequences of Climate Change in the U.S. Great Lakes Region”. 3rd in a special series produced by the Ecological Society of America and the Union of Concerned Scientists, released April 2003.
- Chair*, International Advisory Group on the Nyos-Monoun Degassing Project, 1995 – .
- Member*, Steering Committee, IAVCEI International Commission on Volcanic Lakes, 1990 – .

Editorial:

- Associate Editor for *Limnology and Oceanography*, 2001 – 2015.
Associate Editor for *Arctic, Antarctic, and Alpine Research*, 2019 –

Grant Proposal Reviews:

- U.S. National Science Foundation**, *Programs of*: Ecology; Ecosystems; Long-Term Studies; Surficial Processes; Biological Oceanography; Volcanology and Mantle Geochemistry; Polar Biology and Medicine; International Research; Office of Polar Programs (Arctic Natural Sciences, Arctic System Science).
- U.S. Department Of Energy (DOE)**, National Institute of Global Environmental Change.
- U.S. National Aeronautics and Space Administration (NASA)**
- U.S. National Oceanic and Atmospheric Administration (NOAA)**
- U.S. Environmental Protection Agency (EPA)**
- U.S. Department of Agriculture**
- U.S. Agency for International Development (USAID)**
- NERC (Natural Environment Research Council), United Kingdom**
- National Geographic Society**
- Organization of Tropical Studies**
- Canadian Natural Sciences and Engineering Research Council**
- Israel Science Foundation**

Scientific Paper Reviews:

Science; Nature; PNAS; Ecology; Ecological Monographs; Ecology Letters; Limnology and Oceanography; American Naturalist; Nature Communications; Ecosystems; Biogeochemistry; Freshwater Biology; Climatic Change; Hydrobiologia; Ecological Applications; J. North American Benthological Society; J. Geophysical Research; Natural Hazards; J. Volcanology and Geothermal Research; Bulletin of Volcanology; American Midland Naturalist; Global Biogeochemical Cycles; Geophysical Research Letters; International Society of Microbial Ecology (ISME).

Scientific Outreach (Published or Broadcast Interviews; Reports; Lectures):

- “An Unfrozen North”. By J. Madeleine Nash, 19 February 2018, **High Country News**, <https://www.hcn.org/issues/50.3/an-unfrozen-north>
- “Exploding Killer Lakes”. By Taylor Mayol, 2 March 2016, **OZY**, <http://www.ozy.com/flashback/exploding-killer-lakes/65346>
- “Arctic Sunlight Can Speed Up the Greenhouse Effect”. By Susan Linville, **Moments in Science**, Posted February 27, 2015. <http://indianapublicmedia.org/amomentofscience/arctic-sunlight-speed-greenhouse-effect/>
- <http://ns.umich.edu/new/releases/22338-climate-clues-sunlight-controls-the-fate-of-carbon-released-from-thawing-arctic-permafrost>
- <http://oregonstate.edu/ua/ncs/archives/2014/aug/science-study-sunlight-not-microbes-key-co2-arctic>
- <http://www.sciencedaily.com/releases/2014/08/140821141548.htm>
- <http://www.aninews.in/newsdetail9/story180338/it-039-s-sunlight-that-controls-carbon-dioxide-in-arctic.html>
- http://www.sciencecodex.com/sunlight_not_microbes_key_to_co2_in_arctic-140097
- http://www.eurekalert.org/pub_releases/2014-08/uom-sct081514.php
- <http://phys.org/news/2014-08-sunlight-microbes-key-co2-arctic.html>
- <http://www.laboratoryequipment.com/news/2014/08/sunlight-controls-fate-permafrosts-released-carbon>
- http://www.business-standard.com/article/news-ani/it-s-sunlight-that-controls-carbon-dioxide-in-arctic-114082200579_1.html
- <http://www.eurasiareview.com/22082014-sunlight-microbes-key-co2-arctic/>
- <http://www.rdmag.com/news/2014/08/sunlight-controls-fate-carbon-released-thawing-arctic-permafrost>
- http://zeenews.india.com/news/eco-news/sunlight-not-bacteria-key-to-co2-in-arctic_956515.html
- <http://www.deccanchronicle.com/140822/lifestyle-offbeat/article/its-sunlight-controls-carbon-dioxide-arctic>
- http://www.science20.com/news_articles/sunlight_to_blame_for_co2_release_in_arctic_permafrost_not_microbes-143172
- <http://www.hngn.com/articles/40020/20140822/sunlight-not-bacteria-responsible-for-most-of-arctics-co2-conversion.htm>
- <http://www.capitalotc.com/sunlight-not-microbes-causes-carbon-dioxide-release-in-the-arctic/2954/>
- <http://www.natureworldnews.com/articles/8676/20140822/sunlight-microbes-control-carbon-release-arctic.htm>

- “Environmental educator learns about climate change in Alaska during his latest expedition”. By Ben Horowitz, **The Star-Ledger**, 18 August 2013, http://www.nj.com/morris/index.ssf/2013/08/environmental_educator.html
- “Slumping Arctic Soils Produce Significant Amounts of CO₂”. By Carolyn Gramling, **Science NOW**, www.sciencemag.org 11 February 2013. *Reprinted by 1 additional news agency.*
- “Sunlight stimulates release of carbon dioxide in melting permafrost”. By Monte Morin, **Los Angeles Times**, 12 February 2013. *Reprinted by 2 additional news agencies.*
- “Nearing a Tipping Point on Melting Permafrost?”. By: Michael D. Lemonick, **Climate Central**, www.climatecentral.org, 21 February 2013. *Reprinted by the **Huffington Post**.*
- “Arctic sunshine cranks up threat from greenhouse gases”. By Fred Pearce, **New Scientist**, Issue 2904, 11 February 2013.
- “Climate Happens Anyway: The Death of Permafrost”. By Charles P. Pearce, **The Politics Blog**, Esquire.com, 13 February 2013.
- “Arctic Soil Releases Dangerous Levels of CO₂, Speeding Global Warming”. By Catherine Griffin, **Science World Report**, 12 February 2013. *Reprinted by 2 additional news agencies.*
- “Arctic sunshine revs up greenhouse gases”. **United Press International**, www.UPI.com, 11 February 2013. *Reprinted by 1 additional news agency.*
- “Thawing Arctic set to release tonnes of stored carbon”. By Tim Radford, **Climate News Network**, 12 February 2013. *Reprinted by 3 additional news agencies.*
- “Sunlit Permafrost Unleashes Carbon at Faster Pace”. By Douglas Main, **LiveScience.com**, 11 February 2013. *Reprinted by 2 additional news agencies.*
- “Melting tundra releases CO₂ more quickly than previous estimates”. By Christa Marshall, **Scientific American and Climate Wire**, 12 February 2013. *Reprinted by 1 additional news agency.*
- “Arctic Slumping”. By Andy Soos, **Environmental News Network**, 12 February 2013.
- “[Sunlight stimulates release of climate-warming gas from melting Arctic permafrost](#)”. By Jim Erikson, University of Michigan News Service, 11 February 2013. *Reprinted by 7 additional news agencies.*
- “Permafrost melt to boost atmospheric CO₂ faster than thought”. By Rik Myslewski, **The Register**, 12 February 2013.
- “Permafrost Not So Permanent – And What That Means For You”. By Cody Bond, **CampusProgress.org**, 11 March 2013.
- “Sunlight spurs greenhouse gas release from Arctic”. **IANS**, 12 February 2013. *Reprinted by 5 additional news agencies.*
- “Climate: Study IDs new permafrost threat”. By Bob Berwyn, **Summit County Voice**, 12 February 2013.
- “Sonnenlicht verstärkt die Freisetzung des Treibhausgases”. By Lukas Denzler, **Neue Zürcher Zeitung**, 13 February 2013.
- “Increased Melting and Slumping Soil Produce High Amounts of CO₂, Tied to Global Warming, Nemo and Hurricane Sandy”. By Peter Lesser, **Latinos Post**, 11 February 2013.
- “Il Sole 'amplifica' la CO₂ liberata dal disgelo del suolo”. **ANSA.it**, 12 February 2013.
- “La fonte de la glace Arctique produit des quantités significatives de dioxyde de carbone”. **Actualites News**, 12 February 2013.
- “CO₂, nuovo allarme dall'Artico”. **Lettera43.it**, 12 February 2013.

- “Sonnenlicht macht Permafrost zur CO₂-Schleuder”. **Scinexx.de**, 12 February 2013.
- “Climate change denial given another coffin nail with new permafrost study results”. By Al Stefanelli, **GodDiscussion.com**, 13 February 2013.
- “Bestrahlter Permafrost”. By Nadja Podbregar, **Wissenschaft.de**, 11 February 2013.
- “Melting arctic tundra releases a new climate change threat, UNC says”. By Rick Smith, **WRAL Tech Wire**, 13 February 2013.
- “Sunlight ramps up CO₂ production from permafrost”. By Kate Taylor, **TG Daily**, 13 February 2013.
- “Sunlight stimulates release of carbon dioxide from permafrost” By Staff Writers, **Terra Daily.com**, 14 February 2013.
- “Thawing Permafrost May Be "Huge Factor" in Global Warming”. By Stephen Leahy, **Inter Press Service**, 14 February 2013. *Reprinted by 1 additional news agency.*
- “Countdown to the End of the World”. **The Weather Channel**, television program (1 hour). Produced by Richard Ross and Force Quite Productions, Los Angeles. First released 14 April 2013.
- Union of Concerned Scientists ‘Education Day’ – 10-11 March 2010. Meeting with various members of Congress to discuss issues of global climate change and U.S. energy policy legislation.
- “A Deadly Fog”. **National Geographic**, television program (1 hour). Produced by Simon Kerfoot and Tigress Productions, Bristol, UK. First released 5 December 2009.
- “Arctic ecology: Tundra's burning”. By Jane Qiu, **Nature**, Volume 461, 2 September 2009. pp. 34-36. <http://www.nature.com/news/2009/090902/full/461034a.html>
- “A Lakeful of Trouble”. By Anjali Nayar, **Nature**, Volume 460, 16 July 2009. pp. 321-323.
- “Scientists at Toolik Field Station investigate a warming Arctic”. By Jennifer Weiss, **The Star-Ledger**, Sunday July 19, 2009.
- “Thaw point”. By Jane Qiu, **The Economist**, 30 July 2009 (see also http://www.economist.com/sciencetechnology/displayStory.cfm?story_id=14119825).
- “Climate change called certain and most predictions are bad”. By Tom Henry, **The Toledo Blade**, 13 October 2008.
- Environmental Journalism Boot Camp. Presentation at the MSU Knight Center for Environmental Journalism conference (Society of Environmental Journalists annual meeting, Roanoke VA, 15-19 October 2008).
- “Frozen Carbon and Climate Change”. Public exhibition of research by G. Kling and K. Nadelhoffer, at University of Michigan Exhibit Museum theme semester "From Pole to Pole: Research at the Ends of the Earth", January – June 2008.
- “Mega-Disasters – methane and global extinction”. **The History Channel and National Geographic**, television program (1 hour). Produced by Darryl Rehr, Creative Differences Films, Studio City, CA. First released 9 October 2007.
- “Danger Zones”. By Cody Crane, **Science World**, 3 September 2007, Vol. 64, p. 18.
- “Volcanic Killer Lakes”. **National Geographic ‘Naked Science’ series**, television program (1 hour). Produced by Jason Wells and Granada Studios, Manchester, England. First released 3 May 2007.
- “Confronting Climate Change in Michigan”. Public lecture given at the University of Michigan Exhibit Museum, Theme Semester ‘Wild Weather, Changing Climate’, 31 January 2007.

- “Michiganders preach Al Gore’s global warming gospel”. By Tina Lam, *Detroit Free Press*, 19 February 2007, p.1.
- “Climate Change in the Great Lakes Region”. **NPR broadcast**, Chicago Public Radio, produced by Kristin Moo, aired February 2007.
- “Cameroon’s Exploding Lakes”. **BBC Radio Programme** (30 min), produced by Kate Bissell, first released 17 January 2007.
- “A Convergence of Environmental Experts”. By Jon Reidel, *The View, University of Vermont*, 25 October 2006. p. 1.
- Environmental Journalism Boot Camp. Presentation at the conference organized by the Knight Center for Environmental Journalism, 22-25 October 2006, Burlington, VT.
- “Lake Kivu Gas Extraction: Report on Lake Stability”. Co-author of an expert-committee report produced for the World Bank and the Government of Rwanda (authors G. Kling, S. MacIntyre, J. Steenfelt, F. Hirslund). First released 12 July 2006, 104 pp.
- “The Exodus Decoded”. *The History Channel*, television program (2 hours). Produced by Simcha Jacobovici, and Associated Producers, Toronto, Canada. First released 24 August 2006.
- “Exploding Lakes”. By Megan Sever, *Geotimes*, December 2005, volume 50 number 12, p. 8-9.
- Briefing of U.S. House International Relations Committee and U.S. Office of Foreign Disaster Assistance on scientific results and mitigation options for natural hazards in Cameroon, West Africa. Washington D.C., 14 October 2005.
- “The monster of the lakes is only sleeping, scientists warn”. *New Scientist*, 1 October 2005, p.15.
- “Gas Threat Grows from Lethal Lakes”. By Ian Sample, *The Guardian*, London, p.11, 27 September 2005.
- “Action Needed on Deadly Lakes”. By Richard Black, *BBC News Worldwide*, 27 September 2005.
- “Detox for Killer Lakes”. By Henry Fountain, *The New York Times*, 27 September 2005. Based on research article in Proc. Nat. Academy of Sciences which led to ~25 other news articles published worldwide.
- BBC Radio Broadcasts, 27 September 2005. Story of degassing the Cameroon lakes led to 3 separate BBC radio interviews including World News and Up All Night.
- “Deadly Lakes may Explode Again”. By Andreas von Bubnoff, *Nature*, 26 September 2005 (published online).
- Union of Concerned Scientists ‘Education Day’ – 19-20 September 2005. Meeting with various members of Congress to discuss issues of global change and preserving scientific integrity, related to legislation *H.R. 839* and *S. 1358*.
- “Confronting Climate Change”. Lecture presented at the Great Lakes Environmental Journalism Training Institute, Knight Center for Environmental Journalism, Michigan State University. 8 June 2005.
- “Climate Change – The Debate Heats Up: Jobs, Trade and National Security”. By Mary Jo Frank. *Dividend*, Fall 2004, 1, 867.
- Great Lakes Media Tour – 25 September 2003. Live broadcast interviews about climate change in the Great Lakes with 10 different television stations (ABC, NBC, CBS, FOX) and 9 radio stations in the Great Lakes region. Broadcast from Washington, D.C.
- “Climate Change in the Great Lakes”. 26 September 2003, **Wisconsin Public Radio** (Statewide NPR), live 1-hour interview.
- “Defusing Africa’s Killer Lakes”. By Kevin Krajick, *Smithsonian* September 2003, p. 46-50.

- “Killer Lakes”. *BBC* Television program (1 hour), Produced by Teresa Hunt, BBC studios, London. First released 4 April 2002 worldwide (except N. America); released May 2003 by *The Learning Channel* in N. America.
- “Confronting Climate Change in the Great Lakes Region”. Lead Author of a report published by the Ecological Society of America and the Union of Concerned Scientists, April 2003, 92 pp. (www.ucsusa.org/greatlakes).
- Outreach from this report (up to 2004) resulted in at least 37 Television interviews, 43 Radio interviews (broadcast to over 200 stations), and 82 newspaper and magazine articles, as well as at least 14 listserv announcements and 32 webpage links. Meetings with various members of congress resulted in Senator Durbin’s (IL) testimony to the Senate on climate change on 20 July 2003 (using graphics and information from the report).
- “Passing Gas – making Cameroon’s lakes safer”. By Tom Masland, *Newsweek International*, 10 March 2003.
- “Efforts to tame second African killer lake begin”. By Kevin Krajick, *Science* 299:805, 7 February 2003.
- “Cameroon pipes out deadly lake gas”. By *BBC News*, 15 February 2003, <http://news.bbc.co.uk/2/hi/africa/2766487.stm>. See also reports from 28 Oct 1999; 7 Jun 2000; 11 Jan 2001; 6 Feb 2001.
- “Experts eye Lake Kivu for potential eruption of deadly gases”. By Alexandra Witze, *Dallas Morning News*, 28 January 2002.
- “Letting off Steam: To prevent another tragedy at Lake Nyos, scientists are tapping into the gas at the very bottom”. By Robert Cooke, *Newsday*, 27 March 2001, p. C08.
- “The Monster in the Lake”. By Nicola Jones, *New Scientist*, 24 March 2001.
- “Taming a monster: Researchers are trying to stop Lake Nyos in Africa from exploding and killing again”. By Nicola Jones, *Current Science*, 7 December 2001, No. 8, Vol. 87; Pg. 10.
- “ A l’assaut du lac tueur”, By Jean-Louis Thabor, *Le Figaro*, 3 March 2001, pp. 54-58.
- "Degassing Lakes Nyos and Monoun". World News T.V. program on *CNN International*, first aired 2:00 PM EST, 9 February 2001.
- “Trying to Tame the Roar of Deadly Lakes”. By Marguerite Holloway, *The New York Times*, 27 February 2001, p. D3.
- “Education: A day at the Lake”. *Science Magazine* NetWatch, Volume 293, Number 5532, 10 August 2001.
- “Exploding Lake in Africa Vented with Siphon”. By Brian Fortner, *Civil Engineering*, April 2001, p.25.
- “Scientists Begin Taming Killer Lake”. By John Pickrell, *Science*, Volume 291:965-967 (2001).
- “Lake Lethal”. By Alexandra Witze, *The Dallas Morning News*, 19 February 2001, p. 3C-4C.
- "Taming Africa's Killer Lake". By Tom Clarke, *Nature*, Volume 409, pp. 554-555 (2001).
- "The Tundra Thaw". By Dan Fagin, *Newsday*, 28 November 2000, New York Editions p. C08.
- "Loon Lessons: Alaska Lake is Setting for Environmental Research". By Michael Mansur, *The Boulder Camera*, 17 September 2000, p.7D-8D.
- "The World's Most Deadly Bubble". By Robin McKie, *The London Observer*, 20 August 2000, p. 24.

- "Alaskan Outpost: Researchers Make Trek to Tundra to Study Global Warming". By David Poulson, *Ann Arbor News*, 10 August 2000, pp. D1-D2.
- "The Killing Lakes". By Marguerite Holloway, *Scientific American*, July 2000, pp. 92-99.
- "Global Change in the Arctic". By Jenni Laidman, *Toledo Blade*, 3 May 2000.
- "Volcanic Killers". *PBS and BBC-Granada Films* 60 minute film documentary. First aired 9 June 2000.
- "Cameroon's Killer Lakes". Interview with June Christie on *BBC* London, first aired 2 May 2000.
- "Scientists Set To Burst Bubble of Africa's Killer Lakes". By Hillary Mayell, *National Geographic News*, 26 April 2000, www.nationalgeographic.com/news.
- "Pipes Will Help 'Killer Lakes' Vent". By David Brown, *The Washington Post*, 31 January 2000, p. A09.
- "U.S. to Lead Effort to Avert Natural Disaster Repeat in Cameroon". By Gregory Sokoloff, *Agence France Presse*, 1 February 2000.
- "Cameroon's Killer Lakes". Documentary television program produced by *Discovery Channel* Canada; Interviewed by Jay Ingram. First aired 12 January 2000.
- "African Lakes". Radio Program aired by *Voice of America*, Interview by David McAlary. First aired February 2000.
- "Just When You Thought it was Safe to go Back in the Water...". By David Brown, *The Vancouver Sun*, 3 February 2000, p. A15. (Also released in *The Toronto Sun*, 6 February 2000, Sunday Edition.)
- "Bubbling Lake of Death [Sprudelwasser des Todes]". By Philip Bethge, *Der Spiegel*, no. 48, November 1999, p. 290-291.
- "Life Sciences Initiative Takes Shape". By David Wahlberg, *Ann Arbor News*, 3 October 1999.
- "Killer Mist - Lakes in Cameroon Poised to Erupt With Lethal Gas". By Amanda Onion, *Fox News*. September 14, 1999.
- "Global Warming is Here: the Scientific Evidence". April 1999. By Patrick Mazza and Rhys Roth, *Climate Solutions*, Olympia, WA.
- "Lake Nyos". Documentary television program produced for *The Learning Channel* (by Sachnoff-Lipman Entertainment). First aired February 1999.
- "The Changing Arctic". Documentary film produced by the *Public Broadcasting System* and the National Science Foundation. First aired 14 August 1997.
- "The Earth Does a Slow Burn". By Bill McKibben, *The New York Times*, **OP-ED**, 3 May 1997.
- "Study pulls the plug on Arctic's carbon sink". By Amy Hansen, *NSF Frontiers*, July/August 1997.
- "Pumping Carbon". By Janice O. Childress, *Geotimes*, March 1997, p.14
- "Gas released by melting Arctic may speed up global warming". By Sean Hargrave, *London Sunday Times*, January 5, 1997.
- "Arctic Tundra is Leaking More Carbon Scientists Say". Interview in December 1996 carried by *Reuters North American Wire* resulted in ~15 articles published in various newspapers, including the New York Times, Montreal Gazette, U.P.I., Detroit News, etc.
- "Natural Hazards and the Exploding Lakes of Africa", Lecture presented to the *Cranbrook Institute*, Michigan, September 1996.
- "Disarming deadly waters". By Robert Cooke, *Newsday*, May 1996, p. B21.

- "Model sheds light on a tragedy and a new type of eruption". By Ray Ladbury, *Physics Today*, May 1996, p. 20-22.
- "Running on Tundra". By David Berreby, *Discover Magazine*, June 1996, p. 74-81.
- "The Lake Nyos Disaster". By Ben Norse and Bernie Dittrich, *ChemMatters*, February 1996, p. 13-15.
- "Where the World Isn't so Cool Anymore". By Bill Dietrich, *The Seattle Times*, 17 September 1995, p. A1, A16-A18.
- "The world's lakes have more CO₂ than they can use". By John Walters, *National Public Radio*. Interview and broadcast, 6 October 1994.
- "Cameroon's killer lakes: A rising threat". By Richard Monastersky, *Science News* 145:215. 1994.
- "Killer lakes threaten to strike again". By Constance Holden (ed.), *Science* 264:26. 1994.
- "Understanding Lake Ecosystems from the Arctic to Africa". By Suzanne Tainter, *Research News*, University of Michigan, Spring 1994, p. 10-11.
- "Killer lakes". By Stephanie Lindloff, Sea Grant Institute. Interview and broadcast for *Earthwatch Radio*, 19 April 1994.
- "Solving the problems of Cameroon's killer lakes". By Robert McDonald; Interview and broadcast for *Quirks and Quarks*, *Canadian National Public Radio*, 20 April 1994.
- "A Letter From Toolik Lake: In Arctic's Sendor, the Secrets of Nature". By Heather Dewar, *Miami Herald*, 19 July 1992, p. 1C-4C.
- "Pumping Could Eliminate Lake's Deadly Gas Danger". By Nancy Ross-Flanigan, *Detroit Free Press*, 14 January 1992, p. 3B.
- "Recycling a Lake's Dangerous Gas". By Barry James, *International Herald Tribune*, 17 September 1992, p. 17.
- "Scientific Investigation of Lakes Nyos and Monoun". By G. W. Kling and W. C. Evans; Report Prepared for U. S. Ambassador Francis Cook for distribution to Cameroonian Government, Yaoundé, Cameroon, 6 April 1992.
- "U prof takes on volcanic 'killer lake' in West Africa". By Sally Pobjewski, *The University Record*, 13 January 1992, p. 11.
- "Arctic Remedy for Global Warming May Not Work". By Ruth Linton. Interview and broadcast for *BBC World Service Broadcast*, Discovery edition 877, 1991.
- "U-M Man Studies Deadly African Lake". *Ann Arbor News*, 19 December 1991, p. B1.
- "Ecologist Strives to Prevent African Lake Explosion". By Hugh McCann, *The Detroit News*, 23 December 1991, p. 2E.
- Interview about African Lakes with Donald Frederick at National Geographic resulted in 43 separate articles published in newspapers worldwide, starting May 1990.
- "Preliminary Report of the September 1990 Investigation of Lakes Nyos and Monoun". By G. W. Kling and W. C. Evans; Report prepared for U. S. Ambassador Francis Cook for distribution to Cameroonian Government, Yaounde, Cameroon, 30 September 1990.
- "Nyos, the Killer Lake, May Be Coming Back". By Richard Kerr, *Science* 244:1541-1542. 1989.
- "A Killer Lake in Cameroon". By George Kling, p. 271 In *Science Year, Review of Science and Technology During the 1987 School Year*. *World Book*, Inc., Chicago. 1988.
- "Lake Nyos was Rigged for Disaster". By Richard Kerr, *Science* 235:528-529. 1987.

- "Cameroon's Killer Lake". Feature article by Curt Stager, *National Geographic*, September 1987, p. 404-420.
- "Cameroon Clouds: Soda Source?". By Richard Monastersky, *Science News* 131:388. 1987.
- "Plumbing the Depths of a Lethal Lake". *Discover Magazine*, May 1987, p. 12.
- "Death in Cameroon". By Dixie O'Connor, Leader - *News of the Research Triangle*, Chapel Hill, NC, 8 October 1987, p. 14-17.
- "Duke Scientist Reports on Lake in Cameroon". By Monte Basgall, *Raleigh News and Observer*, 15 April 1987.
- "There May be More than One Way to Make a Volcanic Lake a Killer". By Richard Kerr, *Science* 233:1257-1258. 1986.
- "Cameroon: The First Wave of Clues". By Stefi Weisburd, *Science News* 130:180-181. 1986.
- "Cameroon's Valley of Death". By Nancy Cooper, *Newsweek*, 8 September 1986, p. 26-28.

Teaching:

Participation in courses at The University of Michigan:

- Limnology: Aquatic Ecology; EEB 483; 4 credit hours
- Introduction to Global Change; Biology 110; 4 credit hours
- Professional Development; EEB 525; 3 credit hours
- Ecosystem Ecology; EEB/NRE/Environ 476; 3 credit hours
- Hughes Aquatic Laboratory; EEB 473; 3 credit hours
- Global Change III – Sustainability; UC 212; 4 credit hours
- Oceanography; Biology 380; 3 credit hours
- Introductory Biology Workshop; Biology 150; 1 credit hour
- Ecosystems; EEB 800; 1-3 credit hours
- Advanced Studies; EEB 700/730; 1-3 credit hours
- Undergraduate Independent Study; Biology 300; 1-3 credit hours
- Advanced Undergraduate Independent Study; Biology 400; 1-3 credit hours
- Biogeochemistry; EEB 800; 1 credit hour
- Discussions in EEB; EEB 800; 1 credit hour

Guest Lectures in courses at the University of Michigan:

- Honors Biology; Biology 195
- Biogeochemistry; AOSS 467
- Current Topics in EEOB; Biology 685
- Topics in Biology; Biology 498
- Environmental Journalism; Environment 304

Undergraduate Honor's theses

1. Barbara Byrne (member of committee, completed 1992)
2. Lucy Kwon (member of committee, completed 1993)
3. Megan Ridley (member of committee, completed 1994)
4. Cecelia Sheridan (Chair of committee, completed 1996)

5. Elizabeth Graham (Chair of committee, completed 2005)
6. Kalub Fedak (member of committee, completed 2006)
7. Edna Chiang (member of committee, completed 2015)
8. Rebecca Cotton (member of committee, completed 2016)

Undergraduate research supervision

1. Rebecca Olson (Fall Term 1994)
2. Kyle Rackiewicz (Winter Term 1994)
3. Russell Richmond (Summer 1994, NSF-REU program)
4. Jennifer Petersen-Price (Winter Term 1995)
5. Prakash Pandalai (Winter Term 1995)
6. Alan Striegle (Fall 1995; Winter 1996; Summer 1996, NSF-REU program)
7. Amy Troesch (Summer 1996)
8. Marianne Gonzales (Spring 1997; Summer 1998)
9. Jill Pond (Summer 1998)
10. Erica Gwynn (Winter & Summer 1998, 1999 NSF-REU program)
11. Amanda Lynch (Fall 1998; Winter 1999; Winter 2000)
12. Robert Robke (Winter 2001)
13. Akbar Khan (Winter 2002)
14. Lindsey Barske (Summer 2002, NSF-REU program)
15. Julie Allen (Summer 2003, NSF-REU program)
16. Elizabeth Graham (Summer 2004, NSF-REU program; Fall 2004 & Winter 2005)
17. Maria Dzul (Summer 2005, NSF-REU program; Fall 2005; Winter & Summer 2006)
18. Ashley Larsen (Summer 2007, NSF-REU program)
19. Natalie Day (Summer 2007, NSF-REU program)
20. Jeff Boyar (Summer 2008, NSF-REU program)
21. Tracy Coolidge (Summer 2009, NSF-REU program)
22. Amy Markstein (Summer 2009, NSF-REU program)
23. Kelly Davis (Summer 2010, NSF-REU program and U-M SNRE internship)
24. Brittany Papworth (Summer 2012, NSF grant and Taylor Fellowship)
25. Anna Clinger (Summer 2013, NSF-REU program)
26. Kate Yuhas (Summer 2015, NSF-REU program)
27. Graham Stewart (Summer 2016, NSF-LTER)
28. Alexandria Kolenda (Summer 2017, NSF-LTER)
29. Johanne Albrigtsen (Summer 2018, NSF-LTER)
30. Emma Thronson (Fall 2019, U.M. Honors College)

Master's Students

1. Steffen Burkhardt (Member of committee, completed degree 1991)
2. Karen Riseng (Chair of committee, completed degree 1997)
3. Kristin Judd (Chair of committee, completed degree 1998)
4. Lauren Yelen (Chair of committee, completed degree 2008)
5. Sarah Barbrow (Chair of committee, completed degree 2009)
6. Michelle Lelli (Member of committee, completed degree 2009)
7. Jason Dobkowski (Chair of committee, completed degree 2012)
8. Katie Harrold (University of North Carolina, Member of committee, completed degree 2013)

9. Benjamin Miller (Chair of committee, completed degree 2014)
10. Aislinn Deely (Member of committee, completed degree 2018)

Ph.D. Students

Chair or Co-Chair of Committee:

1. Kimberly Schulz (Completed 1996). Professor, Syracuse University, NY.
2. Peder Yurista (1997). Research Scientist, EPA, Duluth, MN.
3. Mercedes Castillo (2000). Professor, National Council of Science and Technology, Chiapas, Mexico.
4. Tom Bridgeman (2001). Associate Professor, University of Toledo, OH.
5. Kristin Judd (2004). Associate Professor, University of Eastern Michigan, MI.
6. Katy Keller (2006). Research Scientist, Shell Oil Company, TX.
7. Mary Anne Evans (2007). Research Scientist, U.S. Geological Survey, Ann Arbor, MI.
8. Heather Adams (2009). Scientist, NEON.
9. Jasmine Crumsey (2014). Research Faculty, Lecturer, University of Georgia.
10. Karl Romanowicz (started 2017).

Member or Cognate Member of Committee:

1. Scott McNaught (completed degree 1993)
2. William Patterson (completed degree 1995)
3. Hilde Snoeckx (completed degree 1995)
4. Scott Peacor (completed degree 1999)
5. Tara Rajaniemi (completed degree 2001)
6. Andrew Jacobson (completed degree 2001)
7. Andrea Dutton (completed degree 2003)
8. Luis Schiesari (completed degree 2004)
9. Jared DeForest (completed degree 2004)
10. Haeguen Chung (completed degree 2005)
11. Michela Arnaboldi (completed degree 2005)
12. Darryl Hondorp (completed degree 2006)
12. Nia Paul (University of Yaounde, Cameroon, completed degree 2007)
13. Haejin Han (completed degree 2007)
14. Nate Bosch (completed degree 2007)
15. Paul Steen (completed degree 2007)
16. Lori Ivan (completed degree 2008)
17. Franek Hasiuk (completed degree 2008)
18. Maria Marcano (completed degree 2010)
19. Clay Cressler (completed degree 2010)
20. Dan Rucinski (completed degree 2013)
21. Beth Sparks-Jackson (completed degree 2014)
22. Karthik Anantharaman (completed degree 2014)
23. Collin Ward (completed degree 2015)
24. Ian Winkelstern (completed degree 2016)
25. Mary Catherine O'Leary
26. Adrianna Trusiak

27. Jennifer Bowen
28. Derek Smith
29. Wenbo Zhou
30. Kristel Sanchez

Educational Outreach (e.g., NSF-funded Research Experience for Teachers programs)

1. Randy Warrilow, NSF Research Experience for Teachers (RET) Fellow. Summer 2006.
2. Sally Cresido, NSF Research Experience for Teachers (RET) Fellow. Summer 2008.
3. Bruce Takerka, NSF PolarTrec (Teachers and Researchers Exploring and Collaborating) Fellow. Fellowship held summer 2013.
4. Regina Brinker. NSF PolarTrec (Teachers and Researchers Exploring and Collaborating) Fellow. Fellowship held summer 2014.
5. Lauren Watel. NSF PolarTrec (Teachers and Researchers Exploring and Collaborating) Fellow. Fellowship held summer 2014.
6. D. J. Kast. NSF PolarTrec (Teachers and Researchers Exploring and Collaborating) Fellow. Fellowship held summer 2016.
7. David Walker. NSF PolarTrec (Teachers and Researchers Exploring and Collaborating) Fellow. Fellowship held summer 2019.

Service (at the University of Michigan):

Department

- | | |
|-------------|---|
| 2019 – | Member, Executive Committee, Department of Ecology and Evolutionary Biology |
| 2019 | Member, Departmental Nominating Committee |
| 2018 | Chair, Tenure Review Panel |
| 2015 – 2017 | Member, EEB Graduate Affairs Committee |
| 2013 – 2015 | Chair, EEB Promotions and Merit Committee |
| 2012 – 2013 | Member, EEB Promotions and Merit Committee |
| 2008 – 2011 | Associate Chair, Department of Ecology and Evolutionary Biology |
| 2010 – 2011 | Chair, EEB Cluster position Search Committee, Microbial Ecology |
| 2009 – 2010 | Chair, EEB Microbial Ecologist Search Committee |
| 2008 – 2009 | Chair, EEB Microbial Ecologist Search Committee |
| 2007 | Member, EEB Promotions and Merit Committee |
| 2005 – 2008 | Chair, Ph.D. Preliminary Examination Standing Committee |
| 2003 – 2004 | Member, Department Executive Committee. |
| 2001 – 2003 | Member, Department Curriculum Committee. |
| 2002 – 2003 | Chair, Seminar Committee |
| 2001 – 2002 | Chair, Ph.D. Preliminary Examination Standing Committee. |
| 2001 | Chair, Committee to produce an EEB 5-year Plan |
| 1999 | Editor, Department's publication on "Graduate Studies in Biology" |
| 1998 – 2000 | Member, Department Executive Committee |
| 1998 – 2000 | Member, Standing Preliminary Exam Committee, EEOB |
| 1998 – 1999 | Member, Committee to produce an EEOB 5-year Planning Document |

- 1998 Editor, Department's publication on "Graduate Studies in Biology"
 1998 Member, Introductory Biology Review Committee
 1995 – 1997 Chair, Seminar Committee
 1994 – 1995 Chair, Ph.D. Admissions Committee
 1993 – 1994 Chair, Ph.D. Admissions Committee
 1993 Member, Avian and Molluscan Biologist Search Committee
 1993 Editor, Department's publication on "Graduate Studies in Biology"
 1992 – 1993 Member, Ph.D. Admissions Committee

College and University

- 2019 Member, Promotion Evaluation Committee, School of Environment and Sustainability
 2016 Member, Search Committee for a faculty position in the School of Natural Resources and the Environment
 2015 Member, College Safety Committee, Literature, Science and the Arts
 2015 Member, Search Committee for a faculty position in the School of Natural Resources and the Environment
 2014 – Member, Burroughs-Wellcome Training Grant, Microbiome Science, Program Advisory Committee
 2013 – Member, Center for Microbial Sciences, Steering Committee
 2008 – 2017 Member, President's Microbial Ecology Cluster Hires, Steering Committee
 2007 – 2008 Member, College of Literature, Science, Arts. Divisional Evaluation Committee for Promotion
 2006 – 2007 Member, Office of the Vice President committee on the University of Michigan Great Lakes Initiative
 2003 – Faculty Associate, Program in the Environment (LSA & SNRE)
 2002 Member, Search Committee for faculty position in School of Natural Resources and Environment (SNRE)
 2000 Member, Office of the Vice President Search Committee to select an Associate Vice President for Research
 1999 – 2003 Member of Executive Committee, University of Michigan Biological Station
 1999 Member, Joint Committee of the College of Literature, Science, and Arts and the School of Natural Resources on establishing an Environmental Major on Campus
 1998 – 2000 Member, President's Commission on Life Sciences at the University of Michigan
 1996 Member, Office of the Vice President for Research Committee on Research Publications at the University of Michigan
 1996 – 1997 Member, Provost's Committee on Environmental Studies at the University of Michigan (PAGE)
 1995 – 1996 Member, Office of the Vice President for Research Committee on Aquatic and Environmental Research at the University of Michigan
 1995 – 1997 Member, Oversight Committee on the move of the Center of Great Lakes and Aquatic Studies from North to Central Campus
 1994 – 1998 Member, Great Lakes Seminar Committee (U of M, GLERL, CGLAS)
 1993 – 1997 Member, Great Lakes Studies Council (Heads: Bill Kelly, Homer Neal, Vice Presidents for Research)