



Cary Institute
of Ecosystem Studies

Kathleen C. Weathers

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Education:

1986-1993 Rutgers University, Piscataway, New Jersey
Ph.D., Ecology
1981-1983 Yale University, New Haven, Connecticut
M.F.S., Forest Science
1974-1978 Albion College, Albion, Michigan
B.A. (*cum laude*)

Professional Positions:

2009- 6/2010 Program Director, Ecosystems Cluster, National Science Foundation, Arlington, VA
2006-present Senior Scientist, Cary Institute of Ecosystem Studies, Millbrook, New York
2008-present Research Director, Lake Sunapee Station
2010-present Bates College Adjunct Faculty
2006-present Graduate Faculty, Rutgers University, New Brunswick, New Jersey
2004-present Visiting Scholar, Dartmouth College, Hanover, NH
2004-2007 Graduate Faculty, University of Maine, Orono, Maine
2004-2006 Senior Scientist, Head of Laboratory Services, Institute of Ecosystem Studies Millbrook, New York
2004-2005 Visiting Scientist, Lake Sunapee Association, Sunapee, NH
2004 Scientist, Head of Laboratory Services, Institute of Ecosystem Studies, Millbrook, New York (50:50 Administration/Research)
1999-present Graduate Faculty, Graduate Committee, Bard College Center for Environmental Policy
1999-2004 Associate Scientist, Head of Laboratory Services, Institute of Ecosystem Studies, Millbrook, New York (50:50 Administration/Research)
1995-present Faculty, Program in Biogeochemistry and Environmental Change, Cornell University
1994-2002 Graduate Faculty, Graduate Committee, Bard College Graduate Program in Environmental Studies
1994-1999 Forest Ecologist, Head of Laboratory Services, Institute of Ecosystem Studies, Millbrook, New York (50:50 Administration/Research)
1988-1994 Forest Ecologist, Manager of Laboratory Facilities, Institute of Ecosystem Studies, Millbrook, New York (75:25 Administration/Research)
1984-1986 Coordinator, Cloud Water Project, Institute of Ecosystem Studies, Millbrook, New York

1982, 1983 Research Assistant, Yale University, Appalachian Mountain Club, New Haven, Connecticut

Selected Professional Honors:

Marie Tharp Fellow, Columbia University/Lamont-Doherty Earth Observatory
Fellow, American Association for the Advancement of Science (AAAS)
Rolf Eliassen Award (achievement in linking science to management and policy)

Research Interests and Activities:

Whether in air, on land, in freshwaters or the sea, my research program focuses on how biology affects the geochemical cycling of nutrients and pollutants, especially in heterogeneous landscapes that have undergone human disturbance, such as climate change, anthropogenic pollution, and introduced species.

Currently, I and my faculty and student collaborators are working in freshwater lakes and streams in the northeastern United States where toxic cyanobacterial blooms (www.lakesunapee.org) and mercury loading are affecting freshwater resources; at the ocean-atmosphere-terrestrial interface in Chile, Mexico and California; and across eastern North America, including the mountains of the eastern United States (Catskill, White, Adirondack and Great Smoky Mountains). I have used empirically based, GIS-statistical modeling approaches, along with field work, experimental manipulations and paleoecology to examine ecosystem functions in complex terrain. I am also working at the research-education-outreach interface, in partnership with the Lake Sunapee Protective Association (www.lakesunapee.org), and the Global Lakes Observatory Network (GLEON; www.gleon.org) and affiliated social, environmental and computer scientists to generate real time data on lake ecosystem function, and interpret them for and with citizen scientists, educators, and managers.

Selected Publications:

(asterisk denotes undergraduate, graduate, postdoc, or research support staff authors at the time the manuscripts were drafted)

Weathers, K.C. and A. *Ponette-González. *In press*. Atmospheric Deposition. *In* Forest Hydrology and Biogeochemistry: Synthesis of Past Research and Future Directions. D.F. Levia, D. E. Carlyle-Moses and T. Tanaka (Eds) Springer, Ecological Studies Series.

*Ponette-González, A. K.C. Weathers, and L. Curran. *In press*. Tropical land-cover change alters spatial patterns of ion fluxes to canopies and soils: evidence from a human-modified mountain landscape in eastern Mexico. *Ecological Applications*.

Pouyat, R.V., K.C. Weathers, R. Haueber, G. Lovett, A. Bartuska, L. Christenson*, S.E.G. Findlay, R. Gropp, N. Lynn, H. Menninger*, E. Rosi-Marshall. *In press*. The role and challenge of Federal agencies in the application of scientific knowledge: acid deposition policy and forest management as examples. *Frontiers in Ecology and Environment*.

Mitchell, M., G., G.M. Lovett, S. Bailey, F. Beall, D. Burns, D. Buso, T.A. Claire, F. Courchesne, L. Duchesne, C. Eimers, I. Fernandez, D. Houle, D. Jeffries, G. Likens, M. Moran, C. Rogers, D. Scwhede, J. Shanley, K.C. Weathers, R. Vet. *In press*. Comparisons of watershed sulfur budgets in southeast Canada and northeast US: New approaches and implications. *Biogeochemistry*.

*Weand, M.P., M.A. Arthur, G.M. Lovett, F. Sikora, K.C. Weathers. 2010. The phosphorous status of northern hardwoods differs by species but is unaffected by nitrogen fertilization. *Biogeochemistry* 97: 159-181.

*Ponette-González, A., K.C. Weathers and L.M. Curran. 2010. Land cover, rain and fog seasonality, and El Niño Southern Oscillation alter water inputs across a tropical montane landscape in Veracruz, Mexico. *Global Change Biology* 16:946-963.

*Thomas, R.Q., C.D. Canham, K.C. Weathers and C.L. Goodale. 2010. Nitrogen deposition increases regional carbon storage and shifts competitive balance among trees. *Nature Geoscience* 3: 13-17.

Findlay, S., W.H. McDowell, D. Fischer*, M.L. Pace, N. Caraco, S.S. Kaushal*, and K.C. Weathers. 2010. Total carbon analysis may overestimate organic carbon content of fresh waters in the presence of high dissolved inorganic carbon. *Limnology and Oceanography – Methods* 8:196-201.

*Carey, C.C., K.C. Weathers and K.L. Cottingham. 2009. Increases in phosphorus at the sediment-water interface may influence the initiation of cyanobacterial blooms in an oligotrophic lake. *Verh. Internat. Verein. Limnol.* 30: (8) 1185-1188.

*Kelly, V.R., K.C. Weathers, G.M. Lovett, and K.C. Weathers. 2009. Effect of climate change between 1984 and 2007 on precipitation chemistry at a site in northeastern USA. *Environmental Science and Technology*. 43: 3461-3466.

Ewing, H.A., K.C. Weathers, P.H. Templer, T.E. Dawson, M.K. Firestone, A. Elliott*, and V. Boukili*. 2009. Fog Water and Ecosystem Function: Heterogeneity in a California Redwood Forest. *Ecosystems*.12: 417-433.

Lovett, G.M., T.Tear, D. Evers, S.E.G. Findlay, B.J. Cosby, J. Dunscomb, C.Driscoll and K.C. Weathers. 2009. Effects of air pollution on ecosystems and biological diversity in the eastern United States. *Annals of the New York Academy of Sciences*. 1162: 99-135.

Robertson, G.P., V.H. Dale, O.C. Doering, S.P. Hamburg, J.M. Melillo, M.M. Wander, W.J. Parton, P.R. Adler, J. Barney, R.M. Cruse, C.S. Duke, P.M. Fearnside, R.F. Follett, H.K. Gibbs, J. Goldemberg, D. Mladenhoff, D. Ojima, and M.W. Palmer, A. Sharpley, L. Wallace, K.C. Weathers, J.A. Wiens, W.W. Wilhelm. 2008. Sustainable biofuels redux. *Science* 322: 49-50.

- *Christenson, L.M., G.M. Lovett, K.C. Weathers, and M.A. Arthur. 2009. The influence of tree species, nitrogen fertilization, and soil C:N ratio on gross soil nitrogen transformations. *Soil Science Society of America Journal*.
- *Hancock, J.E., M.A. Arthur, K.C. Weathers, and G.M. Lovett. 2008. Carbon cycling along a gradient of beech bark disease impact in the Catskill Mountains, New York. *Can. J. For Res.* 38: 1267-1274.
- *Nelson, S.J., K.B. Johnson*, K.C. Weathers, C.S. Loftin, I. Fernandez, J.S. Kahl and D.P. Krabbenhoff. 2008. A comparison of winter mercury accumulation at a forested and no-canopy sites measured with different snow-sampling techniques. *Applied Geochemistry* 23:384-398.
- *Kelly, V.R., G.M. Lovett, K.C. Weathers, S.E.G. Findlay, D.L. Strayer, D.J. Burns and G.E. Likens. 2008. Long-term sodium chloride retention in a rural watershed: legacy effects of road salt on stream water concentrations. *Environmental Science and Technology* 42:410-415.
- *Gutiérrez, Á.G., *O. Barbosa, D.A. Christie, E. del-Val, H.A. Ewing, C.G. Jones, P.A. Marquet, K.C. Weathers, and J. Armesto. 2008. Regeneration patterns and persistence of the fog-dependent Fray Jorge Forest in semiarid Chile during the past two centuries. *Global Change Biology* 14:161-176.
- *Uriarte, M., H.A. Ewing*, V.T. Eviner, and K.C. Weathers. 2007. Scientific culture, diversity and society: suggestions for the development and adoption of a broader value system in science. *BioScience* 57:71-78.
- Weathers, K.C., G.E. Likens, and T.J. Butler. 2006. Acid rain. Pp. pp. 1507-1522. *In: W. Rom* (ed.). *Environmental and Occupational Medicine*, 4th edition. Lippincott- Raven and Wilkins Publishers, Philadelphia.
- Fenn, M.E., J.O. Sickman, A. Bytnerowicz, D.W. Clow, N.P. Molotch, J.E. Pleim, G.S. Tonnesen, K.C. Weathers, P.E. Padgett, and D.H. Campbell. 2006. Methods for measuring atmospheric nitrogen deposition inputs in arid and montane ecosystems of western North America. *In: A.H. Legge* (ed.), *Developments in Environmental Science Series: Relating Atmospheric Source Apportionment to Vegetation Effects: Establishing Cause Effect Relationships*. Elsevier, Amsterdam, *In press*.
- Weathers, K.C., S.M. Simkin*, G.M. Lovett, and S.E. Lindberg. 2006. Empirical modeling of atmospheric deposition in mountainous landscapes. *Ecological Applications* 16:1590-1607.
- *del-Val, E., J.J. Armesto, O. Barbosa*, D.A. Christie*, A.G. Gutiérrez*, C.G. Jones, P.A. Marquet, and K.C. Weathers. 2006. Rain forest islands in the Chilean semiarid region: fog-dependency, ecosystem persistence and tree regeneration. *Ecosystems* 9:598-608.

- Lovett, G.M., C.D. Canham, M.A. Arthur, K.C. Weathers, and R.D. Fitzhugh. 2006. Forest ecosystem responses to exotic pests and pathogens in eastern North America. *BioScience*, 56:395-405.
- *Templer, P.H., M.A. Arthur, G.M. Lovett and K.C. Weathers. 2007. Plant and Soil Natural Abundance ¹⁵N: Indicators of relative rates of nitrogen cycling in temperate forest ecosystems. *Oecologia*. 153: 399-406.
- Groffman, P.M., J.S. Baron, T. Blett, A.J. Gold, I. Goodman, L.H. Gunderson, B. Levinson, M. Palmer, H.W. Paerl, G.D. Peterson, N.L. Poff, D.W. Rejeski, J.F. Reynolds, M.G. Turner, K.C. Weathers, and J. Wiens. 2006. Ecological thresholds: An important concept with no practical application, or the key to successful environmental management? *Ecosystems* 9:1-13.
- Lovett, G.M., C.G. Jones, M.G. Turner, and K.C. Weathers. 2005. Ecosystem function in heterogeneous landscapes. *In*: Lovett, G.M., C.G. Jones, M.G. Turner, and K.C. Weathers (eds.). *Ecosystem Function in Heterogeneous Landscapes*. Springer-Verlag, NY.
- Lovett, G.M., C.G. Jones, M.G. Turner, and K.C. Weathers. Conceptual frameworks: Plan for a half-built house. 2005. *In*: Lovett, G.M., C.G. Jones, M.G. Turner, and K.C. Weathers (eds.). *Ecosystem Function in Heterogeneous Landscapes*. Springer-Verlag, NY.
- Fitzgerald, N., and K.C. Weathers. 2005. Comparison of trace metal variations in buffered and poorly-buffered streams in the Shawangunk Mountains, NY. 2005. *Northeastern Geology and Environmental Science* 27: 113-122.
- *Kelly, V.R., G.M. Lovett, K.C. Weathers, and G.E. Likens. 2005. Trends in atmospheric ammonium concentrations in relation to atmospheric sulfate and local agriculture. *Environmental Pollution* 135:363-369.
- Smith, M.F., V.T. Eviner, K.C. Weathers, M. Uriarte*, H.A. Ewing*, J.M. Jeschke*, P.M. Groffman, and C.G. Jones. 2005. Creating Individual Awareness about Responsible Conduct in Research: A Case Study of One Institution's Approach for Researchers and Administrators. *SRA International Journal* 36:21-25.
- *Templer, P.H., G.M. Lovett, K.C. Weathers, S.E.G. Findlay, and T.E. Dawson. 2005. Influence of tree species on ¹⁵N sinks and forest N retention in the Catskill Mountains, New York, USA. *Ecosystems* 8:1-16.
- *Cadenasso, M., S.T.A. Pickett, and K.C. Weathers. 2004. Effects of landscape boundaries on the flux of nutrients, detritus, and organisms. *In*: G.A. Polis, M.E. Power, and G. Huxel (eds.). *Food Webs at the Landscape Level*. University of Chicago Press, Chicago, Illinois. pp. 154-168.

- *Cadenasso, M.L., K.C. Weathers, and S.T.A. Pickett. 2004. Integrating food web and landscape ecology: subsidies at the regional scale. *In: G. A. Polis, M. E. Power, and G. Huxel (eds.). Food Webs at the Landscape Level. University of Chicago Press, Chicago, Illinois. pp. 263-267.*
- Driscoll, C.T., G.B. Lawrence, A.J. Bulger, T.J. Butler*, C.S. Cronan, C. Eagar, K.F. Lambert, G.E. Likens, J.L. Stoddard, and K.C. Weathers. 2004. Acidic deposition in the northeastern United States: Sources and inputs, ecosystem effects and management strategies. Pp. 159-190. *In: J.M. Gunn, R.J. Steedman, and R.A. Ryder (eds.). Boreal Shield Watersheds, Section III: Biological Effects and Management Reactions. Lewis Publishers.*
- Lovett, G.M., K.C. Weathers, and M.A. Arthur. 2004. The influence of tree species on nitrogen cycling in the Catskill Mountains, New York. *Biogeochemistry* 67:289-308.
- *Simkin, S.M., D.N. Lewis*, K.C. Weathers, G.M. Lovett, and K. Schwarz*. 2004. Determination of sulfate, nitrate and chloride in throughfall using ion-exchange resins. *Water, Air and Soil Pollution* 153: 343-354.
- Aber, J.D., E.S. Bernhardt*, F. Dijkstra*, R.H. Gardner, K.H. Macneale*, W.J. Parton, S.T.A. Pickett, D.L. Urban, and K.C. Weathers. 2003. Standards of practice for review and publication of models: Summary of discussion. Pp. 204-210. *In: C.D. Canham, J.J. Cole, and W.K. Lauenroth (eds.). Models in Ecosystem Science. Princeton University Press, Princeton, New Jersey.*
- *Cadenasso, M.L., S.T.A. Pickett, K.C. Weathers, S.S. Bell, T.L. Benning, M.M. Carreiro, and T. Dawson. 2003. An Interdisciplinary and Synthetic Approach to Ecological Boundaries. *BioScience* 53:717-722.
- *Cadenasso, M.L., S.T.A. Pickett, K.C. Weathers, and C.G. Jones. 2003. A framework for a theory of boundaries. *BioScience* 53:750-758.
- Caraco, N.F., J.J. Cole, G.E. Likens, G.M. Lovett, and K.C. Weathers. 2003. Variation in NO₃ export from flowing waters of vastly different sizes: Does one model fit all? *Ecosystems* 6:344-352.
- *Griffin, J.M., G.M. Lovett, M.A. Arthur, and K.C. Weathers. 2003. The distribution and severity of beech bark disease in the Catskill Mountains, NY. *Canadian Journal of Forest Research* 33:1754-1760.
- Hogan, K. and K.C. Weathers. 2003. Psychological and ecological perspectives on the development of systems thinking. Pp. 233-260. *In: A.R. Berkowitz, C. H. Nilon, and K.S. Hollweg (eds.). Understanding Urban Ecosystems: A New Frontier for Science and Education. Springer-Verlag, New York. 523pp.*

- Mitchell, M.J., G. Mc Gee, P. McHale, and K.C. Weathers. 2003. Experimental design and instrumentation for analyzing solute concentrations and fluxes for quantifying biogeochemical processes in watersheds. Pp. 15-21. *In: Methodology paper series of the 4th International Conference on ILTER in East Asia and Pacific Region, Ulaanbaatar-Hatgal, Mongolia. 2001. ILTER Network. (www.esf.edu/hss/mongolia).*
- *Kelly, V.R., G.M. Lovett, K.C. Weathers, and G.E. Likens. 2002. Trends in atmospheric concentration and deposition compared to regional and local pollutant emissions at a rural site in southeastern New York, USA. *Atmospheric Environment* 36:1569-1575.
- Lovett, G.M., K.C. Weathers, and M.A. Arthur. 2002. Control of nitrogen loss from forested watersheds by soil C:N ratio and tree species composition. *Ecosystems* 5:712-718.
- Driscoll, C.T., G. Lawrence, A. Bulger, T. Butler, C. Cronan, C. Eagar, K. Lambert, G. Likens, J. Stoddard, K. Weathers. 2001. Acidic deposition in the northeastern US: Sources, inputs, ecosystem effects, and management strategies. *BioScience* 51:180-198.
- Lovett, G.M., K.C. Weathers, and M.A. Arthur. 2001. Is nitrate in stream water an indicator of forest ecosystem health in the Catskills. Pp. 23-30. *In: M.S. Adams (ed.). Catskill Ecosystem Health. Purple Mountain Press, Fleischmanns, New York.*
- Weathers, K.C., M.L. Cadenasso*, and S.T.A. Pickett. 2001. Forest edges as nutrient and pollutant concentrators: Potential synergisms between fragmentation, forest canopies, and the atmosphere. *Conservation Biology* 15:1506-1514.
- *West, J., S.E.G. Findlay, D. Burns, K.C. Weathers, and G.M. Lovett. 2001. Catchment-scale variation in the nitrate concentrations of groundwater seeps in the Catskill Mountains, New York, USA. *Water, Air and Soil Pollution* 132:389-400.
- Lovett, G.M., K.C. Weathers, and W. Sobczak*. 2000. Nitrogen saturation and retention in forested watersheds of the Catskill Mountains, NY. *Ecological Applications* 10:73-84.
- Weathers, K.C., G.M. Lovett, G.E. Likens, and N.F.M. Caraco. 2000. Cloudwater inputs of nitrogen to forest ecosystems in southern Chile: Forms, fluxes and sources. *Ecosystems* 3:590-595.
- Weathers, K.C., G.M. Lovett, G.E. Likens, and R. Lathrop. 2000. The effect of landscape features on deposition to Hunter Mountain, Catskill Mountains, New York. *Ecological Applications* 10:528-540.
- Weathers, K.C. 1999. The importance of cloud and fog to the maintenance of ecosystems. *Trends in Evolution and Ecology* 14:214-215.
- Weathers, K.C. and G.E. Likens. 1998. Acid rain. Pp. 1549-1561. *In: W. Rom (ed.). Environmental and Occupational Medicine, 3rd edition. Lippincott-Raven Publishers, Philadelphia.*

- Weathers, K.C. and G.M. Lovett. 1998. Acid deposition research and ecosystem science: synergistic successes. Pp. 195-219. *In: M.L. Pace and P.M. Groffman (eds.). Successes, Limitations, and Frontiers in Ecosystem Science. VII Cary Conference. Springer-Verlag, New York.*
- Weathers, K.C., G.M. Lovett, G.E. Likens, and N.F.M. Caraco. 1998. Clouds in southern Chile: Whence come the nutrients? Pp. 313-315. *In: R.S. Schemenauer and H. Bridgman (eds.). First International Fog Conference, Vancouver, BC, July 1998.*
- Weathers, K.C. and G.E. Likens. 1997. Clouds in southern Chile: An important source of nitrogen to nitrogen-limited ecosystems? *Environmental Science and Technology* 31:210-213.
- Weathers, K.C., G.M. Lovett, and G.E. Likens. 1995. Cloud deposition to a spruce forest edge. *Atmospheric Environment* 29:665-672.
- *Shultz, A.S., M. Begemann, D.A. Schmidt, and K.C. Weathers. 1993. Longitudinal trends in pH and aluminum chemistry of the Coxing Kill, Ulster County, N.Y. *Water, Air and Soil Pollution* 69:113-125.
- Weathers, K.C., G.M. Lovett, and G.E. Likens. 1992. The influence of a forest edge on cloud deposition. Pp. 1415-1423. *In: S.E. Schwartz and W.G.N. Slinn (eds.). Proceedings of the Fifth International Conference on Precipitation Scavenging and Resuspension. Hemisphere Publishing Corp.*
- Kimball, K.D., R. Jagels, G. Gordon, K.C. Weathers, and J. Carlisle*. 1988. New England coastal fog and mountain cloud water chemistry. *Water, Air and Soil Pollution* 39:383-393.
- Weathers, K.C., G.E. Likens, F.H. Bormann, S.H. Bicknell, B.T. Bormann, B.C. Daube, Jr., J.S. Eaton, J.N. Galloway, W.C. Keene, K.D. Kimball, W.H. McDowell, T.G. Siccamo, D. Smiley, and R. Tarrant. 1988. Cloud water chemistry from ten sites in North America. *Environmental Science and Technology* 22:1018-1026.
- Weathers, K.C., G.E. Likens, F.H. Bormann, J.S. Eaton, K.D. Kimball, J.N. Galloway, T.G. Siccamo, and D. Smiley. 1988. Chemical concentrations in cloud water from four sites in the eastern United States. Pp. 345-357. *In: M.H. Unsworth and D. Fowler (eds.). Acid Deposition at High Elevation Sites. Kluwer Academic Publishers.*
- *Daube, B.C., Jr., K.D. Kimball, P. Lamar*, and K.C. Weathers. 1987. Two new ground-level cloud water sampler designs that reduce rain contamination. *Atmospheric Environment* 21:893-900.
- Weathers, K.C., G.E. Likens, F.H. Bormann, J.S. Eaton, W.B. Bowden, J.L. Anderson, D.A. Cass, J.N. Galloway, W.C. Keene, K.D. Kimball, P. Huth, and D. Smiley. 1986. A regional acidic cloud/fog event in the eastern United States. *Nature* 319:657-658.

Weathers, K.C. and T.G. Siccama. 1986. A comparison of nutrient concentrations in two poisonous and three non-poisonous species of sumac (*Rhus* spp.). *American Midland Naturalist* 116:209-212.

Books Under Contract

Weathers, K.C., D.L. Strayer, and G.E. Likens (eds.). *Fundamentals of Ecosystem Science*, Academic Press (2011).

Letters, Book Reviews and Reports

Lovett, G.M., T.R. Tear with B.J. Cosby, C.T. Driscoll, J.K Dunscomb, D.C. Evers, S.E.G. Findlay, H. Hooper, K.F. Lambert, F. Lowenstein, K.C. Weathers and A. White. 2008. Air pollution impacts on ecosystems and biological diversity in the Eastern United States.

Likens, G.E., K.C. Weathers, D.C. Buso, and T.J. Butler. 1998. Solving the acid rain problem. *Science* 282:1991.

Uriarte, M.L., K.C. Weathers, and V.T. Eviner. 2006. Power games limit science and reflect archaic values. *Nature* 439:18.

Weathers, K.C. 1993. Review of *The Earth in Transition: Patterns and Processes of Biotic Impoverishment*, G.M. Woodwell, ed. *Quarterly Review of Biology* 68:129-130.

Eaton, J.S., K.C. Weathers, and G.E. Likens. 1986. An interlaboratory comparison between the Illinois State Water Survey and the Institute of Ecosystem Studies. 24 pp.

Leadership: Conferences, Meetings and Workshops

Ecological Basis of Biofuels (Steering Committee), Ecological Society of America Workshop, March 2008

Institute of Ecosystem Studies Board-of-Trustees, *Presidential Search Committee*, **member**, 2006-2007.

What good is GLEON? *A Workshop to Explore Buoy Data as a Tool to Link Outreach, Education and Research*, **Convener**, New London, New Hampshire, 13 November 2006.

Fogfest 2005. *Workshop on fog research in redwood forests, CA*. **Co-leader**, Berkeley, CA, December 2005.

Ecological Circuitry Collaboratory, *Final synthesis workshop*, **Co-leader**, Minneapolis, MN, 18-4 November 2005.

Ecological Society of America, *Workshop on modeling in ecology*. **Co-leader**, 90th Annual Meeting, ESA. Montreal, Canada, August, 2005.

Lake Science: Regional Connections and Vision: *A workshop of education and research professionals from northern New England*, **Convener, Leader**, 4-5 April 2005, New London, New Hampshire.

NEON Planning Committee, Research Infrastructure, Facilities Infrastructure Committee, **Co-Chair**, 3 meetings, 2004, 2005.

Institute of Ecosystem Studies Board-of-Trustees, *Visions Committee*, **member**, 2005.

Ecological Society of America, **Co-leader**, 89th Annual Meeting, *The mechanics of integrating ecological science and public policy*. Portland, OR. August 2004.

The Nature Conservancy and Institute of Ecosystem Studies, **Co-organizer**, *Workshop on Air Pollution and Biodiversity*. Millbrook, NY. May 2004.

Cary Conference X, *Ecosystem function in heterogeneous landscapes*. **Co-chair**. Institute of Ecosystem Studies, Millbrook, NY. April 2003.

New York State Energy Research and Development Authority (NYSERDA), *Acid Rain Research*, **Co-chair**, Ecosystem Response Session, October 2003.

An international workshop on fog, trees, ecosystem functioning and biodiversity of relict temperate rain forest patches in Fray Jorge National Park, Chile. **Co-convener**. La Serena, Chile. May 2003.

Structure and Function of Boundaries in Ecological Mosaics: A Workshop on the status and opportunities for integrated research, **Co-leader**, Institute of Ecosystem Studies, Millbrook, NY. October 2000.

Acid Rain: The Ecological Response, **Co-organizer**, Washington, DC. 1999.