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Education:

B.S. Biology, Union College, 1975
Ph.D. Dartmouth College, Biology/Plant Ecology, 1981

Professional Positions:

Senior Scientist, Cary Institute of Ecosystem Studies, 2004-present
Adjunct Professor, The University at Albany, 2004-present
Graduate Faculty in Ecology, Rutgers University, 1989-present
Scientist, Institute of Ecosystem Studies, 1995-2004
Associate Scientist, Institute of Ecosystem Studies, 1989-1995
Assistant Scientist, Institute of Ecosystem Studies, 1985-1989
Research Associate, University of Tennessee, 1983-1985
Postgraduate Research Fellow, Oak Ridge National Lab., 1981-1983

Recent Professional Activities:

Chair, Steering Committee, Northeastern Ecosystem Research Cooperative (2000-present)
Associate Editor, *Biogeochemistry*, 2007-present
Co-chair, Nature Conservancy/IES Workshop on the Effects of Air Pollution on Biodiversity, 2004
Chair, Steering Committee, Tenth Cary Conference, 2002-2003
Chair, Gordon Conference on Forested Catchments, 1999-2001

Research Interests and Activities:

My research interests primarily involve forest ecology, biogeochemistry, and the effects of various stressors on forest ecosystems. At present, my principal research projects focus on: (1) the effects of atmospheric pollutant deposition on forests, soils and streams; (2) the role of tree species in influencing forest nutrient cycling and mediating the responses of forests to atmospheric deposition; (3) the effects of introduced pests on forest nutrient cycling; and (4) patterns of atmospheric deposition of nutrients and pollutants at the landscape and regional scale.

30 Recent Publications:

Christenson, L.M., M.J. Mitchell, P.M. Groffman and G.M. Lovett. Winter climate change implications for decomposition in Northeastern forests: comparisons of sugar maple litter to herbivore fecal inputs. *Global Change Biology* (In press).

Katz, D.S.W., G.M. Lovett, C.D. Canham, and C.M. O'Reilly. Legacies of land-use history diminish over 22 years in a forest in southeastern New York. *J. Torrey Botanical Society* (In press).

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

Peltzer, D.A., R.B. Allen, G.M. Lovett, D. Whitehead and D.A. Wardle. 2010. Effects of biological invasions on forest carbon sequestration. *Global Change Biology* 16: 732-746.

Lovett, G.M , T. H. Tear, D. C. Evers, S.E.G. Findlay, B. J. Cosby, J. K. Dunscomb, C.T. Driscoll and K. C. Weathers. 2009. Effects of air pollution on ecosystems and biological diversity in the eastern United States. *The Year in Ecology and Conservation Biology, 2009: Ann. N.Y. Acad. Sci.* 1162: 99–135.

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

Christenson, L.M., G.M. Lovett, K. C. Weathers, 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* 73:638-646.

Evans, C., C. Goodale, S. Caporn, N. Dise, B. Emmett, I. Fernandez, C. Field, S. Findlay, G. Lovett, H. Meeseburg, F. Moldan, and L. Sheppard. 2008. Does elevated nitrogen deposition or ecosystem recovery from acidification drive increased dissolved organic carbon loss from upland soil? A review of evidence from field nitrogen addition experiments. *Biogeochemistry* 91:13-35.

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. *Canadian Journal of Forest Research* 38:1267-1274.

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 streamwater concentration. *Environmental Science & Technology* 42:410-415.

Templer, P. H., M. A. Arthur, G. M. Lovett, and K. C. Weathers. 2007. Plant and soil natural abundance delta N-15: indicators of relative rates of nitrogen cycling in temperate forest ecosystems. *Oecologia* 153:399-406.

- Lovett, G.M., D.A. Burns, C.T. Driscoll, J.C. Jenkins, M.J. Mitchell, L. Rustad, J. B. Shanley, G.E. Likens, and R. Haeuber. 2007. Who needs environmental monitoring? *Frontiers in Ecology and Environment* 5:253-260 .
- Wallace, Z.P., G.M. Lovett, J.E. Hart, and B. Machona. 2007. Effects of nitrogen saturation on tree growth and death in a mixed-oak forest. *Forest Ecology and Management* 243:210-218..
- 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.
- Lovett, G.M., J. J. Cole, and M.L. Pace. 2006. Is net ecosystem production equal to ecosystem carbon accumulation? *Ecosystems* 9:152-155.
- Lovett, G.M, C.G. Jones, M.G. Turner, and K.C. Weathers (editors). 2005. *Ecosystem Function in Heterogeneous Landscapes*. Springer-Verlag, NY.
- 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.
- 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 in forests of the Catskill Mountains, New York, USA. *Ecosystems* 8:1-16.
- Lovett, G.M., G.E. Likens, D.C. Buso, C.T. Driscoll, and S.W. Bailey. 2005. The biogeochemistry of chlorine at Hubbard Brook, New Hampshire, USA. *Biogeochemistry* 72:191-232.
- Lovett, G.M., K.C. Weathers, M.A. Arthur, and J.C. Schultz. 2004. Nitrogen cycling in a northern hardwood forest: Do species matter? *Biogeochemistry* 67:289-308.
- Lovett, G.M., and M.J. Mitchell. 2004. Sugar maple and nitrogen cycling in the forests of eastern North America. *Frontiers in Ecology and the Environment* 2:81-88.
- Fitzhugh, R.D., L.M. Christenson, and G.M. Lovett. 2003. The fate of NO₂⁻N-15 tracer under different tree species of the Catskill Mountains, New York. *Soil Sci. Soc. Am. J.* 67:1257-1265.
- Fitzhugh, R.D., G.M. Lovett and R.T. Venterea. 2003. Biotic and abiotic immobilization of ammonium, nitrite, and nitrate in soils developed under different tree species in the Catskill Mountains, New York, USA *Global Change Biology* 9:1591-1601.

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.

Venterea, R.T., G.M. Lovett, and P.M. Groffman. 2003. Landscape patterns of soil nitrate production in a northern hardwood-conifer forest. *Soil Science Soc Am. J.* 67:527-539.

Lovett G.M., L.M Christenson., P.M., Groffman C.G Jones., J.E. Hart and M.J. Mitchell. 2002. Insect defoliation and nitrogen cycling in forests. *Bioscience* 52, 335-341.

Lovett, G.M., Weathers, K.C., and M.A. Arthur. 2002. Control of nitrogen loss from forested watersheds by soil carbon:nitrogen ratio and tree species composition. *Ecosystems* 5:712-718.

Lilleskov, E. A., T. J. Fahey, T. R. Horton, and G. M. Lovett. 2002. Belowground ectomycorrhizal fungal community change over a nitrogen deposition gradient in Alaska. *Ecology* 83:104-115.

Lovett, G.M., M.M. Traynor, R.V. Pouyat, M.M. Carreiro, W.X. Zhu, and J.W. Baxter. 2000. Atmospheric deposition to oak forests along an urban-rural gradient. *Environmental Science and Technology* 34:4294-4300.

Lovett, G.M., K.C. Weathers, and W.V. Sobczak. 2000. Nitrogen saturation and retention in forested watersheds of the Catskill Mountains, NY. *Ecological Applications* 10:73-84.