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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  
Editorial Board, *Biogeochemistry*  
Editorial Board, *Ecosystems*  
Chair, Scientific Coordinating Committee, Hubbard Brook Ecosystem Study

**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:**

Lovett, G.M. and C.L. Goodale. 2011. A new conceptual model of nitrogen saturation

- based on experimental nitrogen addition to an oak forest. *Ecosystems* 14:615-631.
- Mitchell, M., G. Lovett, S. Bailey, F. Beall, D. Burns, D. Buso, T. Clair, F. Courchesne, L. Duchesne, C. Eimers, I. Fernandez, D. Houle, D. Jeffries, G. Likens, M. Moran, C. Rogers, D. Schwede, J. Shanley, K. Weathers, and R. Vet. 2011. Comparisons of watershed sulfur budgets in southeast Canada and northeast US: new approaches and implications. *Biogeochemistry* 103:181-207.
- Pouyat, R. V., K. C. Weathers, R. Hauber, G. M. Lovett, A. Bartuska, L. Christenson, J. L. D. Davis, S. E. G. Findlay, H. Menninger, E. Rosi-Marshall, P. Stine, and N. Lymn. 2010. The role of federal agencies in the application of scientific knowledge. *Frontiers in Ecology and the Environment* 8:322-328.
- Weand, M. P., M. A. Arthur, G. M. Lovett, R. L. McCulley, and K. C. Weathers. 2010. Effects of tree species and N additions on forest floor microbial communities and extracellular enzyme activities. *Soil Biology & Biochemistry* 42:2161-2173.
- Christenson, L.M., M.J. Mitchell, P.M. Groffman and G.M. Lovett. 2010. Winter climate change implications for decomposition in Northeastern forests: comparisons of sugar maple litter to herbivore fecal inputs. *Global Change Biology* 16:2589-2601.
- Lovett, G.M., M.A. Arthur, K. C. Weathers and J.M. Griffin. 2010. Long-term changes in forest carbon and nitrogen cycling caused by an introduced pest/pathogen complex. *Ecosystems* 13: 1188-1200.
- Katz, D.S.W., G.M. Lovett, C.D. Canham, and C.M. O'Reilly. 2010. Legacies of land-use history diminish over 22 years in a forest in southeastern New York. *J. Torrey Botanical Society* 137:236-251.
- 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. Meesenburg, 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.
- 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.
- 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.
- 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.
- Lovett, G.M., C.G. Jones, M.G. Turner, and K.C. Weathers. Ecosystem function in heterogeneous landscapes. 2005. Pp 1-4 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. 2005. Conceptual frameworks: Plan for a half-built house. Pp. 463-470 In: Lovett, G.M., C.G. Jones, M.G. Turner, and K.C. Weathers (eds.). *Ecosystem Function in Heterogeneous Landscapes*. Springer-Verlag, NY.
- Ellison, A. M., M. S. Bank, B. D. Clinton, E. A. Colburn, K. Elliott, C. R. Ford, D. R. Foster, B. D. Kloeppel, J. D. Knoepp, G. M. Lovett, J. Mohan, D. A. Orwig, N. L. Rodenhouse, W. V. Sobczak, K. A. Stinson, J. K. Stone, C. M. Swan, J. Thompson, B. Von Holle, and J. R. Webster. 2005. Loss of foundation species: consequences for the structure and dynamics of forested ecosystems. *Frontiers in Ecology and the Environment* 3:479-486.
- Templer, P.H., G.M. Lovett, K.C. Weathers, S.E.G. Findlay and T.E. Dawson. 2005. Influence of tree species on <sup>15</sup>N sinks in forests of the Catskill Mountains, New York, USA. *Ecosystems* 8:1-16.
- Driese, K.L., W.A. Reiners, G.M. Lovett and S.M. Simkin. 2004. A vegetation map for the Catskill Park, NY, derived from multi-temporal LandSat Imagery and GIS Data. *Northeastern Naturalist* 11:421-442.
- 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.