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Education:

1955 - 1957	Manchester College	B.S.	(Zoology)
1957 - 1959	University of Wisconsin-Madison	M.S.	(Zoology)
1959 - 1962	University of Wisconsin-Madison	Ph.D.	(Zoology)

Honorary Degrees: Manchester College [D.Sc., 1979]; Rutgers University [D.Sc., 1985]; Plymouth State University, NH [D.Sc. 1989]; Miami University [D.Sc. 1990]; Union College [D. Humane Letters, 1991]; Institut für Bodenkultur, Vienna, Austria [Doctoral, H.C., 1992]; Marist College [D.Sc., 1993]; Wageningen Agricultural University, The Netherlands [D.Sc., 1998], University of Connecticut, Storrs [D. Sc., 2004].

Professional Positions:

July 1982 - June 1983	Chairman, Section of Ecology and Systematics, Cornell University
Jan. 1983 - Sept. 1983	Charles A. Alexander Professor of Biological Sciences, Section of Ecology and Systematics, Cornell University
Sept. 1983 - <i>present</i>	Adjunct Professor, Department of Ecology and Evolutionary Biology, Cornell University
Sept. 1983 - Nov. 1993	Vice President, The New York Botanical Garden, The Bronx, New York
Sept. 1983 - Nov. 1993	Director, Institute of Ecosystem Studies; and Director, Mary Flagler Cary Arboretum, Millbrook, New York
Nov. 1993 - <i>present</i>	Director and President, Institute of Ecosystem Studies
April 2000 - <i>present</i>	G. Evelyn Hutchinson Chair in Ecology, IES
March 1984 - <i>present</i>	Professor, Department of Biology and EEB, Yale University
March 1985 - <i>present</i>	Professor, Graduate Field of Ecology, Rutgers University
Sept. 1985 - <i>present</i>	Fellow, Timothy Dwight College, Yale University
May 2003 - <i>present</i>	Adjunct Professor, Department of Biological Sciences, University at Albany, State University of New York
Nov. 2004 - <i>present</i>	Distinguished Research Professor, Department of Ecology and Evolutionary Biology, University of Connecticut, Storrs

Selected Professional Honors:

- Guggenheim Fellowship; 1972-1973.
- Election to American Academy of Arts and Sciences, 1979.

- U.S. Forest Service 75th Anniversary Award, for significant contributions to forestry and conservation, U.S. Department of Agriculture; 1980.
- Election to National Academy of Sciences, 1981.
- First G.E. Hutchinson Award for Excellence in Research, presented by the American Society of Limnology and Oceanography; October 1982.
- Regents Medal of Excellence, Bicentennial of Board of Regents and the University of the State of New York; October 1984.
- First International ECI Prize in Limnetic Ecology, The Ecology Institute; April 1988.
- Election to The Royal Swedish Academy of Sciences, 1988.
- 1990 AIBS Distinguished Service Award, American Institute of Biological Sciences; August 1990.
- 1993 Tyler Prize, The World Prize for Environmental Achievement; December 1993. (with F. H. Bormann)
- 1994 Australia Prize for Science and Technology, The Parliament House, Canberra, Australia; April 1994.
- Election to The Royal Danish Academy of Sciences and Letters, 1994.
- Einar Naumann-Augustus Thienemann Medal, Societas Internationalis Limnologiae; August 1995.
- Eminent Ecologist, Ecological Society of America; August 1995.
- 1997 R.A. Vollenweider Award and Lectureship in Aquatic Sciences [granted annually to an eminent freshwater scientist for global contribution to advancement of aquatic sciences], National Water Research Institute and Canada Centre for Inland Waters; March 1998.
- AIBS Lifetime Achievement Award, American Institute of Biological Sciences; March 2000.
- Election to Austrian Academy of Sciences; 2000.
- Huxley Medal, Institute of Biology, London, UK; April 2001.
- President, Societas Internationalis Limnologiae (SIL); 2001–2004; 2004–2007.
- President, American Institute of Biological Sciences; 2002.
- National Medal of Science, 2001; Awarded, June 2002.
- Election as Lifetime Member, International Water Academy, Norway; 2003.
- Blue Planet Prize, The Asahi Glass Foundation, Tokyo, Japan; 2003.
- Miegunyah Fellowship, University of Melbourne, Australia; 2004.
- Science Leadership Award, U.S. Forest Service 100th Anniversary, U.S. Department of Agriculture; 2005.

Research Interests and Activities:

- Dr. Likens' research interests are focused on long-term, multidisciplinary studies of forest, stream and lake ecosystems in the Hubbard Brook Experimental Forest in the White Mountains of New Hampshire. To see more information about these and other research projects, visit: http://www.ecostudies.org/people_sci_likens.html

Selected Publications (from more than 450 publications):

- Likens, G. E., F. H. Bormann, N. M. Johnson, D. W. Fisher and R. S. Pierce. 1970. Effects of forest cutting and herbicide treatment on nutrient budgets in the Hubbard Brook watershed-ecosystem. *Ecol. Monogr.* 40(1):23-47.
Science Citation Index and the Social Sciences Citation Index identified Likens et al. *Ecological Monographs* 40:23 [1970], as one of the most cited items in its field; Citation Classic in Current Contents 12(36):28, 1981
- Fisher, S. G. and G. E. Likens. 1973. Energy flow in Bear Brook, New Hampshire: an integrative approach to stream ecosystem metabolism. *Ecol. Monogr.* 43(4):421-439
- Likens, G. E. and F. H. Bormann. 1974. Acid rain: a serious regional environmental problem. *Science* 184(4142):1176-1179.
- Likens, G. E., F. H. Bormann, R. S. Pierce and W. A. Reiners. 1978. Recovery of a deforested ecosystem. *Science* 199:492-496.
- Bormann, F. H. and G. E. Likens. 1979. *Pattern and Process in a Forested Ecosystem*. Springer-Verlag New York Inc. 253 pp.
- Likens, G. E. (ed.). 1985. *An Ecosystem Approach to Aquatic Ecology: Mirror Lake and its Environment*. Springer-Verlag New York Inc. 516 pp.
- Likens, G. E. 1989. Some aspects of air pollution on terrestrial ecosystems and prospects for the future. *Ambio* 18:172-178.
- Likens, G. E. 1992. *The Ecosystem Approach: Its Use and Abuse. Excellence in Ecology, Book 3*. Ecology Institute, Oldendorf-Luhe, Germany. 166 pp.
- Hedin, L. O., L. Granat, G. E. Likens, T. A. Buishand, J. N. Galloway, T. J. Butler and H. Rodhe. 1994. Steep declines in atmospheric base cations in regions of Europe and North America. *Nature* 367:351-354.
- Likens, G. E., C. T. Driscoll, D. C. Buso, T. G. Siccama, C. E. Johnson, D. F. Ryan, G. M. Lovett, T. Fahey and W. A. Reiners. 1994. The biogeochemistry of potassium at Hubbard Brook. *Biogeochemistry* 25:61-125.
- Likens, G. E. and F. H. Bormann. 1995. *Biogeochemistry of a Forested Ecosystem*. Second Edition. Springer-Verlag New York, Inc. 159 pp.
- Likens, G. E., C. T. Driscoll and D. C. Buso. 1996. Long-term effects of acid rain: response and recovery of a forest ecosystem. *Science* 272:244-246.

- Likens, G. E., S. L. Tartowski, T. W. Berger, D. G. Richey, C. T. Driscoll, H. G. Frank and A. Klein. 1997. Transport and fate of trifluoroacetate in upland forest and wetland ecosystems. *Proc. National Academy of Sciences* 94:4499-4503.
- Weathers, K. C. and G. E. Likens. 1997. Clouds in southern Chile: An important source of nitrogen to nitrogen-limited ecosystems? *Environ. Sci. Technol.* 31(1):210-213.
- Likens, G. E. 1998. Limitations to intellectual progress in ecosystem science. pp. 247-271. In: M. L. Pace and P. M. Groffman (eds.). *Successes, Limitations and Frontiers in Ecosystem Science. 7th Cary Conference, Institute of Ecosystem Studies, Millbrook, New York.* Springer-Verlag New York, Inc.
- Likens, G. E., C. T. Driscoll, D. C. Buso, T. G. Siccama, C. E. Johnson, G. M. Lovett, T. J. Fahey, W. A. Reiners, D. F. Ryan, C. W. Martin and S. W. Bailey. 1998. The biogeochemistry of calcium at Hubbard Brook. *Biogeochemistry* 41(2):89-173.
- Likens, G. E. 1999. The science of nature, the nature of science: Long-term ecological studies at Hubbard Brook. *Proc. American Philosophical Society* 143(4):558-572.
- Larison, J. R., G. E. Likens, J. W. Fitzpatrick and J. G. Crock. 2000. Cadmium toxicity among wildlife in the Colorado Rocky Mountains. *Nature* 406:181-183.
- Likens, G. E. 2000. A long-term record of ice cover for Mirror Lake, New Hampshire: effects of global warming? *Verh. Internat. Verein. Limnol.* 27(X): (In Press)
- Wetzel, R. G. and G. E. Likens. 2000. *Limnological Analyses.* Third Edition. Springer-Verlag New York Inc. 429 pp.
- Butler, T. J., G. E. Likens and B. J. B. Stunder. 2001. Regional-scale impacts of Phase I of The Clean Air Act Amendments in the USA: the relation between emissions and concentrations, both wet and dry. *Atmospheric Environment* 35(6):1015-1028.
- Driscoll, C. T., G. B. Lawrence, A. J. Bulger, T. J. Butler, C. S. Cronan, C. Eagar, K. Fallon Lambert, G. E. Likens, J. L. Stoddard and K. C. Weathers. 2001. Acidic deposition in the northeastern United States: sources and inputs, ecosystem effects, and management strategies. *BioScience* 51(3):180-198.

- Likens, G. E. 2001. Biogeochemistry, the watershed approach: some uses and limitations. In: Frontiers of Catchment Biogeochemistry. CSIRO Land and Water, Canberra, Australia. *Marine and Freshwater Research* 52(1):5-12.
- Likens, G. E. 2001. Ecosystems: Energetics and Biogeochemistry. pp. 53-88. In: W. J. Kress and G. Barrett (eds.). A New Century of Biology. Smithsonian Institution Press, Washington and London.
- Likens, G. E., T. J. Butler and D. C. Buso. 2001. Long- and short-term changes in sulfate deposition: Effects of The 1990 Clean Air Act Amendments. *Biogeochemistry* 52(1):1-11.
- Bernhardt, E. S. and G. E. Likens. 2002. Dissolved organic carbon enrichment alters nitrogen dynamics in a forest stream. *Ecology* 83(6):1689-1700.
- Likens, G. E., C. T. Driscoll, D. C. Buso, M. J. Mitchell, G. M. Lovett, S. W. Bailey, T. G. Siccama, W. A. Reiners and C. Alewell. 2002. The biogeochemistry of sulfur at Hubbard Brook. *Biogeochemistry* 60(3):235-316.
- Likens, G. E., C. T. Driscoll, D. C. Buso, M. J. Mitchell, G. M. Lovett, S. W. Bailey, T. G. Siccama, W. A. Reiners and C. Alewell. 2002. The biogeochemistry of sulfur at Hubbard Brook. *Biogeochemistry* 60(3):235-316.
- Likens, G. E. 2004. Biogeochemistry: Some opportunities and challenges for the future. *Water, Air and Soil Pollution: Focus* 4(2-3):5-24.
- Likens, G. E. 2004. Some perspectives on long-term biogeochemical research from the Hubbard Brook Ecosystem Study. *Ecology* 85(9):2355-2362.
- Likens, G. E., D. C. Buso, B. K. Dresser, E. S. Bernhardt, R. O. Hall, Jr., K. H. Macneale and S. W. Bailey. 2004. Buffering an acidic stream in New Hampshire with a silicate mineral. *Restoration Ecology* 12(3):419-428.