

## STEPHEN A. NORTON

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E-mail: Norton@Maine.Edu  
Education: A.B. Geology Princeton University 1962  
M.A., Ph.D. Geology Harvard University 1963, 1967

### Professional Experience

2008-present Professor Emeritus in the School of Earth and Climate Sciences, Climate Change Institute, University of Maine (  
1968-2008 Assistant (1968-1972), Associate (1972-1977), Professor of Earth  
Sciences  
1979-1983 Chair of Geological Sciences, University of Maine (again during 1993-  
1999)  
1983, 1986-7 Sabbatical, Norwegian Institute for Water Research, Senior Visiting  
Scientist.  
1984, 1984-6 Associate Dean and Interim Dean of the College of Arts and Sciences,  
University of Maine  
1972-1975 Geologist with the Maine Geological Survey  
1961-65, 1967-1972 Geologist with the United States Geological Survey

### Research Interests

His research was, and continues to be, in the field of aquatic environmental geochemistry, with the interaction of water, humans, and geologic materials as his specialty. He continues his research at the University and is currently studying the chemistry of aluminum, iron, and phosphorus – how they interact and control biological productivity in Maine lakes, and REE mobility.

### Recent peer-reviewed publications (of 228) – Last five years

Amirbahman, A., Lake, B., and **Norton, S. A.**, 2013, Seasonal phosphorus dynamics in the surficial sediment of two shallow temperate lakes: A solid phase and pore-water study. *Hydrobiologia*, 701, 65-77.

Mineau, M. M., Rigsby, C. M., Elya, D. T., Fernandez, I. J., **Norton, S. A.**, Ohno, T., Valette, H. M., and Simon, K. S., 2013, Chronic catchment nitrogen enrichment and stoichiometric constraints on the bioavailability of dissolved organic matter from leaf leachate: *Fresh Water Biology*, 58, 2, 248–260.

Novák, M., Jacobson, G. L., **Norton, S. A.**, Stepanova, M. , Grimm, E. C., Jackova1, I., and Buzek1, F., 2013, Variation in sulfur isotopes from continental and marine aerosols in a 60,000-year sediment core from Lake Tulane, central Florida, USA: *Chem. Geol.* 349-350, 110-116.

Boyle, J. F., Chiverrell, R. C., **Norton, S. A.**, and Plater, A. J., 2013, A leaky model of long-term soil phosphorus dynamics: *Global Biogeochem. Cycles*. DOI: 10.1002/gbc.20039.

- Norton, S. A.**, Kopáček, J., and Fernandez, I. J., 2014, Acidification and Acid Rain: in Holland, H. D. and Turekian K. K. (eds.), *Treatise on Geochemistry*, 11, 379-414, London: Elsevier.
- Kopáček, J., Hejzlar, J., Kaňa, J., **Norton, S.**, and Stuchlík, E., 2015, Effects of acidic deposition on in-lake phosphorus availability: A lesson from lakes recovering from acidification. *Environ. Sc. Tech.*, 49, 2895-2903.
- Norton, S. A.**, Kopáček, J., Jacobson, G. L., and Navratil, T., 2016, A comparative study of long-term Hg and Pb sediment archives. *Environ. Chem.*, 13, 517-527.  
<http://dx.doi.org/10.1071/EN15114>.
- Norton, S. A.**, Pierret, M-C, Kopáček, J., Perry, R., and Handley, M., 2016, Long-term evolution of leaching and lake sediment sequestration of rare earth elements from two deglaciated mountain watersheds. *J. Paleolim.* 55, #3, 209-222.
- Kopáček, J., Kaňa, J., Bičárová, S., Fernandez, I. J., Hejzlar, J., Kahounová-Hynštová, M., **Norton, S. A.**, Stuchlík, E., 2017, Climate change increases calcium leaching from granitic alpine catchments: *Envir. Sci. Tech.*
- Doolittle, H. A., **Norton, S. A.**, Bacon, L. C., Ewing, H. A., and Amirbahman, A., 2018, The internal and watershed controls on hypolimnetic sediment phosphorus release in Lake Auburn, Maine, USA: *Lake Reservoir Manag.*,  
<https://doi.org/10.1080/10402381.2018.1423588>
- Sutherland, J., **Norton, S.**, Short, J., and Navitsky, C., 2018, Salinization and recovery of Lake George, New York (USA) Tributary Soils and Streams from Road Salting: *Science of the Total Environ.*, 637-638, 282-294.
- Kifner, L. H., Calhoun, A. J. K., **Norton, S. A.**, and Amirbahman, A., in press, 2018, Methane and carbon dioxide dynamics within four vernal pools in Maine, USA. *Biogeochemistry*.
- Navratil, T., Novakova, T., Shanley, J., Rohovec, J., Matouscova, S., Vancova, M., and **Norton, S.**, in press, 2018, Larch tree rings as a tool for reconstructing 20<sup>th</sup> century central European atmospheric mercury trends: *Environ. Sci. Tech.*