

STEPHEN A. NORTON
Department of Earth Sciences
Bryand Global Sciences Center
University of Maine
Orono, Maine 04469-5790

Phone: 207-581-2156 (Office); Fax: 207-581-2202 (Earth Sciences)

E-mail: Norton@Maine.Edu

Education: A.B. Geology Princeton University 1962
M.A. Geology Harvard University 1963
Ph.D. Geology Harvard University 1967

Professional Experience:

2008- Professor Emeritus of Earth 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 On leave, Norwegian Institute for Water Research, Senior Visiting Scientist.
1984, 1985-6 Associate Dean and Dean of the College of Arts and Sciences, University of Maine
1972-1975 Geologist with the Maine Geological Survey
1967-72 Geologist with the United States Geological Survey
1961-65 Geologist with the United States Geological Survey

Recent related peer-reviewed publications, of 200+

- Norton, S. A., 2007, Atmospheric Metal Pollutants – Archives, Methods, and History: *Water, Air, Soil Poll. Focus.*, 93-98.
- Norton, S. A., Wilson, T., Handley, M., and Osterberg, E. C., 2007, Atmospheric deposition of cadmium in the northeastern USA: *Applied Geochemistry*, 22, 1217-1222.
- Rosfjord, C. H., Webster, K. E., Kahl, J. S., Norton, S. A., Fernandez, I. J., and Herlihy, A., 2007, Alteration of base cation biogeochemistry by widespread increases in chloride in northeastern U.S. lakes: *Environ. Sci. Technol.*, 41, 7688-7693.
- Kopáček, J., Hejzlar, J., and Norton, S. A., 2008, Proton production by transformations of aluminium and iron in lakes: *Water Research*, 42, 1220-1228.
- Goss, H. V. and Norton, S. A., 2008, Contrasting chemical response to artificial acidification of three acid-sensitive streams in Maine, USA.: *Sci. Tot. Environ.*, 404, 245-252.
- Norton, S. A., Coolidge, K., Amirbahman, A., Kopáček, J., and Bouchard, R. J., 2008, Speciation of Al, Fe, and P in recent sediment of three Maine lakes, USA: *Sci. Tot. Environ.*, 404, 276-283.
- Wilson, T. A., Norton, S. A., Lake, B., Amirbahman, A., 2008, Sediment geochemistry of Al, Fe, and P for two oligotrophic Maine lakes during a period of acidification and recovery: *Sci. Tot. Environ.*, 404, 269-275.
- SanClements, M. D., Fernandez, I. J., and Norton, S. A., 2009, Soil and sediment phosphorus fractions in a forested watershed at Acadia National Park, ME, USA. *For. Ecol. Manag.*, 258, 2318-2325.
- Navrátil, T., Rohovec, J., Amirbahman, A., Norton, S. A., and Fernandez, I. J., 2009, Controls of natural amorphous aluminum hydroxide on sulfate and phosphate anions in sediment-solution systems: *Water, Air, and Soil Poll.*, 201, 87-98.

Kopáček, J., Hejzlar, J., Kaňa, J., Norton, S. A., Porcal, P., Turek, J., 2009, Trends in aluminium export from a glaciated mountain area to surface waters: Effects of soil development, atmospheric acidification, and nitrogen-saturation: *J. Inorg. Biochemistry*, 103, 1439-1448.

Current Synergistic activities

Research - Working with the Louis Pasteur University, Czech Geological Survey, The Czech National Academy, and The Czech Hydrobiological Institute on the collaborative projects “Abiotic controls on the trophic status of oligotrophic surface waters” and “Mechanisms Controlling Metal and Phosphorus Dynamics in an Experimentally Acidified Watershed in Maine”. Board of Editors, *Environmental Monitoring and Assessment* (1993- present). Co-Organizer, BIOGEOMON2012 (in Maine). Co-Editor, “The Bear Brook Watershed in Maine: The Second Decade”

Collaborators – Last 48 months

A. Amirbahman, University of Maine; R. Bouchard, Maine DEP; K. Coolidge, Portland, Maine; B. J. Cosby, University of Virginia; A. Dieffenbacher-Krall, University of Maine; C. T. Driscoll, Syracuse University; G. Evans, Maine DEP; J. Farmer, Univ. Edinburgh, Scotland; I. Fernandez, University of Maine; H. Goss, USEPA; T. Haines, Orono, Maine (ret.); M. Handley, University of Maine; J. Hejzlar, A., Czech Republic; J. Herlihy, U. S. EPA; K. Johnson, University of Maine; J. Kahl, Plymouth State University, NH; N. Kamman, Vermont DEP; J. Kaste, William and Mary College; J. Kopáček, Czech Hydrobiological Institute; B. Lake, University of Maine; Laudon, H, Umeå, Sweden; J. Lawler, US EPA; V. Majer, Czech Geol. Survey; McGee, C. J., Univ. Maine; T. Navrátil, Czech Acad. Sci.; S. Nelson, University of Maine; S. Ohno, University of Maine; E. Osterberg, University of Maine; J. Parker, Washington; E. Perry, Houston, Texas; M.-C. Pierret-Neboit, France; P. Porcal, Czech Hydrobiological Institute; R. Reinhardt, location unknown; Rohovec, J, Czech Acad. Sci.; F. Roos-Barraclough, Switzerland; C. Rosfjord, West Virginia; L. Rustad, U.S Forest Service, Durham, NH; M. SanClements, CSU, CO; W. Shotyk, Univ. Heidelberg; P. J. Sherman, University of Maine; J. Stoddard, USEPA; J. Szillery, Bangor, Maine; M. Vach, Czech Geological Survey; K. Webster and A. White, University of Maine; T. Wilson, University of Maine.

Thesis Advisees – Last five years

M.Sc. or M.Sc.T.: E. Klingler, D. Martin, M. Laird, T. Wilson, H. Goss, D. Huntress, R. Perry, D. Johnson, and H. Webber.

Principal advisor on 31 additional M.Sc. theses, and an additional 51 M.Sc. and Ph.D. committees.

Post-Doctoral Fellows – Last five years

2005-2006 Petr Porcal, Hydrobiological Institute, Czech Republic

2007-2008 Tomas Navrátil, Czech Acad. Sci., Prague, Czech Republic

2009-2010 Marie-Clair Pierret-Neboit, Louis Pasteur Institute, Univ. Strasbourg

Graduate Advisors (M.Sc. and Ph.D.)

James Thompson (retired) and Marland Billings (deceased), 1963, 1967, Harvard University.