

Jonathan J. Cole

Cary Institute of Ecosystem Studies
Box AB, 2801 Sharon Turnpike
Millbrook, NY 12545
Phone: (845) 677-5343; fax: (845) 677-5976
E-mail: colej@caryinstitute.org

Professional Preparation

Amherst College, MA	Biology	B.A. <i>magna cum laude</i> 1976
Cornell University	Ecology	Ph.D. 1982

Appointments

July 2014 -	Distinguished Senior Scientist, <i>Emeritus</i> , Cary Institute of Ecosystem Studies
2010 – 2014	Distinguished Senior Scientist, Cary Institute of Ecosystem Studies
2008 – 2013	G. Evelyn Hutchinson Chair in Ecosystem Studies
1983 – 2010	Assistant Scientist, Associate Scientist, Scientist, Senior Scientist, Cary Institute of Ecosystem Studies
1983 – 1996	Executive Director, Hubbard Brook Scientific Advisory Committee
1982 – 1983	Noyes Postdoctoral Fellow, Marine Biological Laboratory, Woods Hole
1981 – 1982	Postdoctoral Fellow, Department of Geology, Woods Hole Oceanographic Institute

Selected Publications (from about 210)

- Cole, J.J. 2013. *Freshwater ecosystems and the carbon cycle*. In: Kinne O (ed) Excellence in ecology. Book 18. International Ecology Institute, Oldendorf/Luhe 146 pp.
- Wilkinson, G., M.L. Pace and J. J. Cole 2013. Terrestrial dominance of organic matter in north temperate lakes. *Global Biogeochem. Cycles* 27:1-9
- Cole J.J. and C.T. Solomon, 2012. Terrestrial support of zebra mussels and the Hudson River food web: A multi-isotope, Bayesian analysis. *Limnol. Oceanogr* 57(6), 2012, 1802–1815
- Carpenter, S.R., J.J. Cole, M.L. Pace, R. Batt, W.A. Brock, T. Cline, J. Coloso, J.R. Hodgson, J.F. Kitchell, D.A. Seekell, L. Smith, and B. Weidel. 2011. Early warnings of regime shifts: A whole-ecosystem experiment. *Science* 332:1079-1082.
- Cole, J.J., S.R. Carpenter, J.F. Kitchell, M.L. Pace, C.T. Solomon, and B. Weidel. 2011. Strong evidence for terrestrial support of zooplankton in small lakes based on stable isotopes of carbon, nitrogen, and hydrogen. *PNAS* 108(5):1975-1980.
- Cole, J.J., A. Finzi, and E.A. Holland (Guest Editors). 2011. Coupled Biogeochemical Cycles: Special Issue. *Frontiers of Ecology and the Environment* 9(1):1-80.
- Caraco, N.F., J.E. Bauer, J.J. Cole, S. Petsch, and P.A. Raymond. 2010. Millennia aged organic carbon subsidies to a modern river food web. *Ecology* 91(8):2381-2389.
- Cole, J.J., Y.T. Prairie, N.F. Caraco, W.H. McDowell, L.J. Tranvik, R.G. Striegl, C.M. Duarte, P. Kortelainen, J.A. Downing, J. Middleburg, and J. Melack. 2007. Plumbing the global carbon cycle: Integrating inland waters into the terrestrial carbon budget. *Ecosystems* 10:171-184.
- Cole, J.J., S.R. Carpenter, M.L. Pace, M.C. Van de Bogert, J.L. Kitchell, and J.R. Hodgson. 2006. Differential support of lake food webs by three types of terrestrial organic carbon. *Ecology Letters* 9:558-568.
- Pace, M.L., J.J. Cole, S.R. Carpenter, J.F. Kitchell, J.R. Hodgson, M. Van de Bogert, D.L. Bade, E.S. Kritzberg, and D. Bastviken. 2004. Whole lake carbon-13 additions reveal terrestrial support of aquatic food webs. *Nature* 427:240-243.

- Raymond, P.A. and J. J. Cole. 2003. Increase in the export of alkalinity from North America's largest river. *Science* 302:88-91.
- Caraco, N. F., J. J. Cole, P. A. Raymond, D. L. Strayer, M. L. Pace, S. E. G. Findlay and D. T. Fischer. 1997. Zebra mussel invasion in a large turbid river: Phytoplankton response to increased grazing. *Ecology* 78:588-602
- Cole, J.J., N.F. Caraco, G.W. Kling, and T.W. Kratz. 1994. Carbon dioxide supersaturation in the surface waters of lake. *Science* 265:1568-1570.

Selected Honors and Awards

- Member – *National Academy of Sciences* 2014-
- Member – *American Academy of Arts and Sciences* 2010-
- Elected Fellow – *American Geophysical Union (AGU)* 2011;
- Elected Fellow- *American Association for the Advancement of Science (AAAS)* 1996
- President – *American Society of Limnology and Oceanography (ASLO)* 2004-2006
- *Ecology Institute Prize (EIP)* 2003 in limnetic ecology
- *ISI Highly Cited Researcher* 2006-present
- Member, *International Water Academy*, 2000-present

Cole is a biogeochemist who works in aquatic ecosystems. Concentrating currently on lakes and rivers Cole previously worked in marine systems while in Woods Hole. Cole is interested in the fates of terrestrial organic matter once it enters aquatic systems and has been demonstrating that inland waters play a significant role in the global carbon cycle. Cole has been an Associate Editor for a number of scientific journals including: *Limnology and Oceanography*; *Freshwater Reviews*; *Ecosystems*, and *Hydrobiologia*, and has been the Reviews Editor for *Limnology and Oceanography: Reviews*.