Colleen M. Iversen
Scientist
Oak Ridge National Laboratory, Environmental Sciences Division
Phone: (865) 241-3961
Email: iversencm@ornl.gov

Education and Training

2008	University of Tennessee, Ecology and Evolutionary Biology, Ph.D.
2004	University of Notre Dame, Biological Sciences, M.S.
1997	Hope College, Biological and Environmental Sciences, B.S.

Research and Professional Experience

2010-Present	Staff Scientist. Oak Ridge National Laboratory, Environmental Sciences Division, Oak Ridge, TN, USA. I am an ecosystem ecologist who uses a variety of field and laboratory techniques to understand and predict how ecosystems are shaped by climatic change. Specifically, I work at the root-soil interface to investigate how atmospheric and climatic change alters belowground carbon and nutrient cycling.
2008-2010	Post-doctoral research associate. Oak Ridge National Laboratory, Environmental Sciences Division, Oak Ridge, TN, USA.
2007-2008	Marvin L. Wesely Graduate Research Environmental Fellow. Global Change Education Program, Department of Energy.

Publications

1. Warren JM, Iversen CM, Garten CT, Norby RJ, Childs J, Brice DJ, Evans RM, Gu L, Thornton PE, Weston DJ. 2011. Timing and magnitude of carbon partitioning through a young loblolly pine (*Pinus taeda* L.) stand using ^{13}C labeling and shade treatments. *Tree Physiology*. doi: 10.1093/treephys/tpr129.
2. Iversen CM, Murphy MT, Allen MF, Childs J, Eissenstat DM, Lilleskov EA, Sarjala TM, Sloan VL, Sullivan PF. Advancing the use of minirhizotrons in wetlands. *Plant and Soil*, DOI 10.1007/s11104-011-0953-1.
3. Iversen CM, Hooker TD, Classen AT, Norby RJ (2011). Net mineralization of N at deeper soil depths as a potential mechanism for sustained forest production under elevated [CO_2]. *Global Change Biology* 17: 1130-1139.
4. Garten CT, Iversen CM, Norby RJ (2011). Litterfall ^{15}N abundance indicates declining soil nitrogen availability in a free air CO_2-enrichment experiment. *Ecology* 92:133-139.
5. Norby RJ, Warren JM, Iversen CM, Medlyn BE, McMurtrie RE (2010). CO2 enhancement of forest productivity constrained by limited nitrogen availability. *Proceedings of the National Academy of Sciences, USA* 107: 19368-19373.
6. Iversen CM, Bridgham SD, Kellogg LE (2010). Scaling plant nitrogen-use and uptake efficiencies in response to nutrient addition in peatlands. *Ecology* 91: 693-707.
7. Iversen CM (2010). Digging deeper: Fine root responses to rising atmospheric [CO_2] in forested ecosystems. *New Phytologist* 186: 346-357.
8. O'Brien SL, Iversen CM (2009). Missing links in the root-soil organic matter continuum. *New Phytologist* 184: 513-516.
9. Iversen CM, O'Brien SL (2010). Organized Oral Session 3. Missing links in the root–soil organic matter continuum. *Bulletin of the Ecological Society of America* 91: 54-64.
10. Franklin O, McMurtrie RE, Iversen CM, Crous KY, Finzi A, Tissue DT, Ellsworth DS, Oren R, Norby RJ (2009). Forest fine-root production and nitrogen use under elevated CO_2: contrasting responses in evergreen and deciduous trees explained by a common principle. *Global Change Biology* 15: 132-144.

11. Iversen CM, Norby RJ (2008). Nitrogen limitation in a sweetgum plantation: Implications for carbon allocation and storage. *Canadian Journal of Forest Research* 38: 1021-1032**.**
12. Iversen CM, Ledford J, Norby RJ (2008). CO_2 enrichment increases carbon and nitrogen input from fine roots in a deciduous forest. *New Phytologist*: 179: 837-847.
13. Finzi AC, Norby RJ, Calfapietra C, Gallet-Budynek A, Gielen B, Holmes WE, Hoosbeek MR, Iversen CM, Jackson RB, Kubiske MB, Ledford J, Liberloo M, Oren R, Polle A, Pritchard S, Zak DR, Schlesinger WH, Ceulemans R (2007). Increases in nitrogen uptake rather than nitrogen-use efficiency support higher rates of temperate forest productivity under elevated CO_2. *Proceedings of the National Academy of Sciences, USA* 104: 14014-14019.

Synergistic Activities

1. Organizer: "Advancing minirhizotron use to examine ephemeral root dynamics in peatland and high carbon ecosystems". Small workshop hosted at Oak Ridge National Laboratory in October, 2010, and funded by the Department of Energy, Office of Science and New Phytologist Trust.
2. Co-organizer: "Missing links in the root-soil organic matter continuum". Organized oral session at the annual Ecological Society of America meeting, August, 2009 in Albuquerque, NM, USA.
3. Ad-hoc reviewer for: *Acta Oecologica; Biological Invasions; Canadian Journal of Forest Research; Global Biogeochemical Cycles; Global Change Biology; Journal of Ecology; New Phytologist; Oecologia; Plant and Soil; Soil Science Society of America Journal; Tree Physiology*; National Science Foundation; National Institute for Climate Change Research; Department of Energy, Office of Science.
4. Public tours: Oak Ridge National Laboratory Free-Air CO_2-Enrichment experiment.
5. Public outreach: Local NPR interview; web cast for Oak Ridge Associated Universities; part of a feature story in the *ORNL Review;* presentation of "Ecosystems" and "Greenhouse effect" concepts to 3rd grade classrooms and Environmental Club in Sevierville, TN, USA; built decomposition columns with 6th, 7th, 8th-graders at Cherokee Middle School, Kingston, TN, USA.
6. Society memberships: Ecological Society of America, Soil Ecology Society.

Collaborators and Co-Editors

CT Garten, L Gu, PJ Hanson, RJ Norby, P Thornton, JM Warren, D Weston, SD Wullschleger (Oak Ridge National Laboratory); JD Jastrow, R Matamala, SL O'Brien (Argonne National Laboratory); AT Classen (University of Tennessee, Knoxville); TD Hooker (Utah Geological Survey);
JK Keller (Chapman University); SD Bridgham (University of Oregon); BE Medlyn (Macquarie University); RE McMurtrie (University of New South Wales); LE Kellogg (University of Minnesota); O Franklin (International Institute for Applied Systems Analysis); KY Crous (Australian National University); AC Finzi (Boston University); DS Ellsworth, DT Tissue (University of Western Sydney); R Oren (Duke University); DR Zak (University of Michigan); C Calfapietra (Institute of Agro-Environmental and Forest Biology, Italy); A Gallet-Budynek (French National Institute for Agricultural Research); WE Holmes (University of California, Davis); MR Hoosbeek (Wageningen University); RB Jackson (Duke University); MB Kubiske (USDA Forest Service); RJM Ceulemans, B Gielen, M Liberloo (University of Antwerp); A Polle (University of Gottingen); S Pritchard (College of Charleston); WH Schlesinger (Institute of Ecosystem Studies); AK Bauers (Washington State University); CT Chapin (National Park Service); TR Filley (Purdue University)

Graduate and Postdoctoral Advisors

M.S. Advisor: Dr. Scott D. Bridgham (University of Oregon, formerly University of Notre Dame)
Ph.D. co-Advisors: Dr. Richard J. Norby (Oak Ridge National Laboratory) and Dr. Aimée T. Classen (University of Tennessee, Knoxville)
Postdoctoral Advisor: Dr. Richard J. Norby