

Neil Pederson, Assistant Professor

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Education

Ph. D. in Forest Ecology and Climate Change (2005). Columbia University Department of Earth and Environment Science (DEES), New York, NY

Dissertation Title: Climatic Sensitivity and Growth of Southern Temperate Trees in the Eastern US: Implications for the Carbon Cycle. Dissertation Advisors: Drs. Edward Cook and Gordon Jacoby

M. S. in Forest Ecology (1994). Auburn University School of Forestry and Wildlife Sciences, Auburn, AL

Thesis Title: Stand and Spatial Age Distribution in an Old-Growth Loblolly Pine Floodplain Forest. Thesis Advisors: Dr. Robert H. Jones and Rebecca R. Sharitz

B. S. in Ecosystems and Forest Biology (1990). S.U.N.Y. College of Environmental Science and Forestry, Syracuse, NY

A. A. S. in Mathematics (1988). SUNY Morrisville State College, Morrisville, NY

Positions Held

2005-present Assistant Professor, Dept. Biological Sciences, Eastern Kentucky University
1999-2005 Graduate Research Assistant, Dept. of Earth & Env. Science, Columbia University
1997-1999 Senior Research Assistant, Tree-Ring Lab., Lamont-Doherty Earth Obs., Columbia U.
1997 Forester, Wagner Forest Management LTD., Derby, VT
1996-1997 Forester, USDA Forest Service - Forest Inventory and Analysis, St. Johnsbury, VT
1994-1996 Forest Ecology Research Tech. III, J.W. Jones Ecological Research Center, Newton, GA.
1991-1994 Grad. Research Asst., School of Forestry, Auburn University, Auburn, AL
1990 Research Assistant, SUNY-ESF, Syracuse, NY & Luquillo National Forest, Puerto Rico

Teaching Experience

2005-present Asst. Professor, EKU. Classes: *Intro. Biology* (non-majors), *Principles of Biology*, *Conservation of Wildlife Resources* (non-majors), *Undergraduate Seminar*, *Forest Ecology*, *Topics in Ecology & Evolution*, *Ecology for Teachers*, *Ecology of Old-growth Forests*, *Dynamics of Ecosystems*, *Graduate Seminar*
2001 Teaching Assist. Columbia University. Classes: *Wetlands and Climate Change*, *Life systems*.

Peer-review Publications

Refereed

Bhuta, A.R., L.M. Kennedy and N. Pederson. *Accepted*. Climate-radial growth relationships of northern latitude range margin Longleaf pine (*Pinus palustris* P. Mill) in the Atlantic Coastal Plain of southeastern Virginia. Tree-Ring Research.
Cook, E.R. and N. Pederson. *Accepted*. Uncertainty, emergence, and statistics in dendrochronology. Book chapter from the conference "Tree Ring and Climate: Sharpening the Focus."
Black, B.A., J.J. Colbert and N. Pederson. 2008. Relationships between radial growth rates and lifespan within diverse tree species. *Ecoscience* 15(3): 349-357.
Pederson, N., J.M. Varner and B.J. Palik. 2008. Canopy disturbance and tree recruitment over two centuries in a managed longleaf pine landscape. *Forest Ecology and Management* 254: 85-95.
Pederson, N., A.W. D'Amato and D.A. Orwig. 2007. Central hardwood natural history from dendrochronology: maximum ages of rarely studied species. Proc. 15th Central Hardwood Conference. University of Tennessee. Knoxville, TN. Feb. 27-Mar. 1, 2006. USDA For. Ser. So. Res. St. e-Gen. Tech. Rep. SRS-101. pp 695-701.

- Hopton, H.M. and N. **Pederson**. **2005**. Climate Sensitivity of Atlantic White Cedar at Its Northern Range Limit. Atlantic White Cedar: Ecology, Restoration and Management, Proceedings of the Arlington Echo Symposium. June 2-4 2003. Millersville, MD. USDA For. Ser. Gen. Tech. Rep. SRS-91. pp 22-30.
- Pederson**, N., E.R. Cook, G.C. Jacoby, D.M. Peteet, and K.L. Griffin. **2004**. The influence of winter temperatures on the annual radial growth of six northern-range-margin tree species. *Dendrochronologia* 22: 7-29.
- Jacoby, G., N. **Pederson** and R. D'Arrigo. **2003**. Temperature and precipitation in Mongolia based on dendroclimatic investigations. *Chinese Science Bulletin* 48 (14): 1474-1479.
- Pederson**, N., G.C. Jacoby, R. D'Arrigo, B. Buckley, C. Dugarjav, and R. Mijiddorj. **2001**. Hydrometeorological Reconstructions for Northeastern Mongolia Derived from Tree Rings: AD 1651-1995. *J. Clim.* 14: 872-881.
- D'Arrigo, R., G. Jacoby, D. Frank, N. **Pederson**. **2001**. Spatial response to major volcanic events on or about AD 536, 934 and 1258: frost rings and other dendrochronological evidence from Mongolia. *Climatic Change* 49: 239-246.
- D'Arrigo, R., G. Jacoby, D. Frank, N. **Pederson**, B. Buckley, B. Nachin, R. Mijiddorj and C. Dugarjav. **2001**. 1738 years of Mongolian temperature variability inferred from a tree-ring width chronology of Siberian pine. *Geophys. Res. Lett.* 28: 543-546.
- D'Arrigo, R., G. Jacoby, N. **Pederson**, D. Frank, B. Buckley, B. Nachin, R. Mijiddorj and C. Dugarjav. **2000**. Mongolian Tree Rings, Temperature Sensitivity and Reconstructions of Northern Hemisphere Temperature. *The Holocene* 10 (6): 669-672.
- Meldahl, R.S., N. **Pederson**, J.S. Kush, and J.M. Varner, III. **1999**. Dendrochronological investigations of climate and competitive effects on longleaf pine growth. In R. Wimmer and R E Vetter (eds.) *Tree Ring Analysis: Biological, Methodological and Environmental Aspects*. CABI Pub. Wallingford, UK. pp. 265-285.
- Pederson**, N., R.H. Jones, and R.R. Sharitz. **1997**. Age structure of old-growth loblolly pine stands in a floodplain forest. *J. Torrey Bot. Soc.* 124(2): 111-123.
- Palik, B.J., R.J. Mitchell, G. Houseal, and N. **Pederson**. **1997**. Competitive effects of overstory structure and seedling response in a longleaf pine woodland ecosystem. *Can. J. For. Res.* 27(9): 1458-1464.
- Palik, B.J. and N. **Pederson**. **1996**. Overstory mortality and canopy disturbances in longleaf pine ecosystems. *Can. J. For. Res.* 26(11): 2035-2047.

Proceedings Edited

- Jacoby, G.C. and N. **Pederson** (eds.) **2001**. Proceedings of the Meeting on Mongolian Paleoclimatology and Environmental Research, Lamont-Doherty Earth Obs., Palisades, NY, 113 p.

Selected Unrefereed Articles & Reports

- Pederson**, N., J.S. Kush, R.S. Meldahl, and W.D. Boyer. **2000**. Longleaf pine cone crops and climate: a possible link. Proceedings of the Tenth Biennial Southern Silvicultural Research Conference, February 1999.
- Pederson**, N., L. Neel, and J. Kush. **1997**. Ecosystem management ideas for the longleaf pine ecosystem. First Annual Meeting of the Longleaf Pine Alliance. September 1996. Mobile, AL.
- Pederson**, N., E. Everham, and J.M. Sahn. **1991**. Natural disturbance simulation for the Luquillo Experimental Forest. In: Concern Toward Our Environment. J. McCloud, (ed.) Proc. of the Computer Simulation Soc.

Data Bank Contributions

- 2009 - **Pederson**, N., D. Griffin, J. Riddle. Tree-Ring Data from Savage Gulf State Natural Area, TN. International Tree-Ring Data Bank. IGBP PAGES/World Data Center-A for Paleoclimatology Data Contribution Series to TN029. NOAA/NGDC Paleoclimatology Program. Boulder, CO, USA.
- 2007 - **Pederson**, N., et al. Oldest-known *Liriodendron tulipifera*. Oldlist: A Database of Maximum Tree Ages - <http://www.rmtrr.org/oldlist.htm>.
- 2005 - **Pederson**, N., et al. Oldest-known *Acer rubrum*, *Betula lenta*, *Carya ovata*, *Liriodendron tulipifera*, *Magnolia acuminata*, *Quercus alba* and *Q. montana*. Oldlist: A Database of Maximum Tree Ages - <http://www.rmtrr.org/oldlist.htm>.
- 1999 - Jacoby, G.C., R. D'Arrigo, B.M. Buckley, N. **Pederson**. Tree-Ring Data from Mongolia. International Tree-Ring Data Bank. IGBP PAGES/World Data Center-A for Paleoclimatology Data Contribution Series to MONG004. NOAA/NGDC Paleoclimatology Program. Boulder, CO, USA.
- 1999 - **Pederson**, N., B.M. Buckley, B.Nachin and G.C. Jacoby. Oldest-known *Larix sibirica* - Siberian larch. Oldlist: A Database of Maximum Tree Ages - <http://www.rmtrr.org/oldlist.htm>

- 1997 - **Pederson**, N.. Tree-Ring Data, Georgia Longleaf Pine. International Tree-Ring Data Bank. IGBP PAGES/World Data Center-A for Paleoclimatology Data Contribution Series # 97-003. NOAA/NGDC Paleoclimatology Program. Boulder, CO, USA.
- 1997 - Kush, J. , N. **Pederson**, and R. Meldahl. Tree-Ring Data, Alabama Longleaf Pine. International Tree-Ring Data Bank. IGBP PAGES/World Data Center-A for Paleoclimatology Data Contribution Series # 97-005. NOAA/NGDC Paleoclimatology Program. Boulder, CO, USA.

Research Funding & Grants

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|------|-----------|---|
| 2008 | \$569,754 | ‘Collaborative Research: Fire, Climate and Forest History in Mongolia’. <i>National Science Foundation</i> . In collaboration with Dr. Amy Hessl of West Virginia University and Dr. Peter Brown of Rocky Mountain Tree Ring Research [\$378,616 to ECU]. |
| 2006 | \$ 11,161 | ‘A Pilot Study of Individual-tree and Ecosystem Level Carbon Sequestration in High and Low Elevation, Mixed-Mesophytic Forests of the Great Smoky Mountains’. <i>University Research Committee. Eastern Kentucky University</i> . |
| 2006 | \$ 4,965 | ‘Drought History of Three Ponds and Blanton Forest Preserves: Investigation of an East-West Drought Gradient across Kentucky’. <i>Kentucky Nature Preserves Commission</i> . |
| 2005 | \$ 26,841 | ‘Using dendrochronology to confirm old-growth forest, and reconstruct climatic and hydrologic sensitivity of Atlantic white-cedar at the Buckridge Coastal Reserve, NC’. <i>North Carolina Dept. of Coastal Management</i> , (w/ Dr. Ben Poulter, Duke University). |
| 2002 | \$ 6,000 | ‘Dendrochronological Analysis of Suwannee River Basin Tree Species’, <i>Suwannee River Water Management District</i> , Florida (w/ J.M. Varner, III) |
| 2001 | \$ 57,600 | ‘An Experimental Study to Explore the Relationship of Ecosystem Carbon Uptake Eddy-Flux Measurements and Tree Growth: A Tree-Ring Analysis Approach’, <i>U.S. Dept. of Energy</i> . Global Change Education Program, Fellowship. |
| 2000 | \$ 4,175 | ‘Age Model Constraint of a Northern Hudson River Valley Bog Sediment Core’, Climate Center of Lamont-Doherty Earth Observatory, (w/ Dr. Dorothy Peteet). |
| 2000 | \$ 21,000 | ‘High Resolution Millennial Scale History of Hudson Valley, NY Forests: Climatic and Environmental Influences on Carbon Storage’, <i>NASA Earth System Science Fellowship Program</i> , (w/ Dr. Dorothy Peteet). |
| 2000 | \$ 5,000 | ‘Miniconference on Mongolian Paleoclimatology and Environmental Research’, <i>Climate Center of Lamont-Doherty Earth Observatory</i> , (w/ Dr. Gordon Jacoby). |
| 1992 | \$ 5,000 | ‘Disturbance history and establishment of loblolly pine in the Congaree Swamp. <i>U.S. National Park Service Research Grant</i> , (w/ Dr. Robert H. Jones). |

Honors and Awards

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| 2003- 2005 | Sigma Xi National Scientific Research Society |
| 2001- 2002 | Teaching Assistant Of the Year, Dept. of Earth & Env. Science, Columbia U. |
| 2000 | Young Scientist Travel Scholarship, Int. Conf. on Dendrochronology in Mendoza, Argentina. |
| 1992 | Xi Sigma Pi - Forestry National Honor Society |
| 1988 | N.J.C.A.A. Academic All-American in Lacrosse |

Service and Community Activities

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| March ‘09 - present | Scientific Advisory Committee, Floracliff Nature Sanctuary |
| March ‘08 - present | Project manager, scientific advisor to “Save Kentucky’s Hemlocks”:
http://www.kyhemlocks.org/ |
| Summer 2008 | Established annual Old-growth Forest Internship at ECU’s Lilley-Cornett Woods in collaboration with the Division of Natural Areas |
| June 2007 | Organized and co-convened conference on Old-Growth Forests in the Commonwealth of Kentucky. Pine Mtn. State Resort Park. June 2007. |
| June 2007 | Group Leader, North American Dendroecological Fieldweek, Smoky Mtns. |
| Fall 2006 - present | Member of Kentucky’s Forest Health Task Force |

Fall 2006	Established ' <i>Eastern OLDLIST</i> ' – an online database for well-documented maximum ages for species found in eastern North America –more than 13,000 page visits http://people.eku.edu/pedersonn/oldlisteast/
Spring 2006	Started annual Natural History Lecture series as a part of Earth Days in the Cumberlands, Eastern Kentucky University
June 2006	Co-group leader, International Dendrochronological Fieldweek, Mongolia
2004 - 2005	Board member, Greenbrook Nature Sanctuary, Tenafly, NJ
Fall 2000	Co-convened conference on Mongolian Paleoclimate and Environment at LDEO
Summer 2000	Co-lead and group leader, 1 st Dendrochronological Fieldweek, Ulaanbaatar, Mongolia

Newsletter Articles

- Pederson, N.** 2009. Old Trees in the Inner Bluegrass Region of Kentucky: November 2008. Bulletin of the Eastern Native Society. 4(1): 9-10.
- Pederson, N.** 2009. Floracliff's Old Trees: Rays of hope for the Inner Bluegrass Region. Newsletter of Floracliff Nature Sanctuary. Winter 2009 edition.
- Pederson, N.** 2008. Ring width patterns of a chestnut oak (*Quercus montana*) from Lilley Cornett Woods, KY: An example of accelerated growth in old trees across the eastern US - A brief overview of a sample for the paleoclimate exhibit of the American Museum of Natural History. In: The Lady Slipper - newsletter of the Kentucky Native Plant Society. Summer 2008.

Selected Personal and Lab Academic Presentations Since Summer '05 – remainder on my web page

- Tomko, N.D. and E.E. Pyland. 2009. Two Uncommonly Climate-Sensitive Tree Populations in a Warm, Moist Geographic Location. Undergraduate Presentation Showcase. ECU. April 10th, 2009.
- Pederson, N. 2009. Was there a Megadrought in eastern Kentucky during the mid-1700s? Annual meeting of the Kentucky Wildlife Society. February, Barren River State Park. Invited Talk.
- Eaton, R., G. Brosi, D. Stockwell and N. Pederson. 2008. Development of a 313-year *Quercus montana* chronology in Powell County, Kentucky. Annual Meeting of the Kentucky Academy of Sciences, Lexington, KY, November, 2008.
- Pederson, N. 2008. Forest Trees: Arboreal Agents of Environmental Change. University of Dayton Department of Biology Seminar Series. Invited Seminar.
- Pederson, N. 2008. The Paleoclimatological Power of Biodiversity: Drought Bakes the NYC Apple & is a Boon for Mr. Daniel? Dept. Bio. Science Departmental Seminar Series, Eastern Kentucky U.
- Pederson, N., T. Evans, and K. Tackett. 2008. Images of a death spiral: Decline of hemlock woolly-adelgid infected trees. University of Kentucky's Annual Spring Symposium. May 9th.
- Tackett, K. N. Pederson and S. Clark. 2008. Age structure of two hemlock-dominated ravines and adjacent upland oak-hardwood forests within the Cumberland Plateau Region. Annual Meeting of the Association of Southeastern Biologists. April 16-19, 2008. Spartanburg, SC.
- Evans, T., T. Blythe, C. Lattin, K. Tackett and N. Pederson. 2008. Effects of Climate and Geography on the Radial Growth of Seven Eastern Tree Species. Annual Meeting of the Association of Southeastern Biologists. April 16-19, 2008. Spartanburg, SC.
- Pederson, N., Patsy Clinton, Jessica Dorzinsky, Jane Foster, Alexis Reed, Saskia van de Gevel, Jodi Axelson and Daniel Griffin. Influence of Climate and Land-Use History upon Carbon Sequestration in Great Smoky Mountains, USA. Annual Meeting of the Assoc. of American Geographers. April 15-19, 2008. Boston, MA.
- Pederson, N., E.R. Cook and K. Vranes. 2008. The Paleoclimatological Power of Biodiversity: 500 yrs of New York City Watershed Drought. Annual Meeting of the Association of American Geographers. April 15-19, 2008. Boston, MA.
- Pederson, N. and B. Black. 2008. The Relation Between Growth Rate & Longevity in Trees: a Biological Law? University of Kentucky's EcoLunch. March 28th, 2008.
- Pederson, N., J.M. Varner, III and B.J. Palik. 2007. Disturbance History of a Managed Longleaf Pine Landscape and the Potential Role of Climate. Annual Meeting of the Kentucky Academy of Sciences, Louisville, KY, November 9th-10th, 2007.

- Pederson, N., A. D'amato, D. Orwig, D. Luthringer, E. Frank, A. Kelly, S.L. Van De Gevel, R.D. Griffin, J. Axelson, K.S.K. Beal, C. Bois, P. Clinton, J. Dorzinsky, J.M. Dyer, J. Foster, H. Gamper, K. Hrinkevich, S. Mohan, M. Nesius, A. Reed, J. Riddle, D. Twedt and L.J. Winship. 2007. Natural History of Trees: Divining Life-history Traits Through Dendrochronology. Annual Meeting of the Kentucky Academy of Sciences, Louisville, KY, November 9th-10th, 2007.
- Blythe, T., C. Ford and N. Pederson. 2007. Changes in water use efficiency and xylem production of two *Pinus strobus* plantations. Ann. Meeting of the Kentucky Acad. of Sciences, Louisville, KY, Nov. 9th-10th, 2007.
- Blythe, T., T. Evans, C. Lattin, K. Tackett and N. Pederson. 2007. Effects of Climate and Geography on the Radial Growth of Seven Eastern Tree Species. Annual Meeting of the Kentucky Academy of Sciences, Louisville, KY, November 9th-10th, 2007.
- Tackett, K., N. Pederson and S. Clark. 2007. Searching for potential old-growth forest in the Cumberland Plateau Region: Comparison of age structure in hemlock-dominated ravines and adjacent upland oak-hardwood forests within Cane Creek WMA, Laurel County, Kentucky. Annual Meeting of the Kentucky Academy of Sciences, Louisville, KY, November 9th-10th, 2007.
- Blythe, T. and N. Pederson. 2007. Radial Growth of Southernmost and Northeasternmost Populations of *Quercus Montana* (Chestnut Oak). 2007 National Collegiate Honors Council's Annual Conference -"Creative Tensions, Challenging Environments." Denver, Colorado, October 31 – November 4, 2007.
- Pederson, N. 2007. The Interconnected Values of Old-growth Forests & Tree-Ring Research. First Meeting of the Kentucky Old-Growth Forest Society. Jun 15th & 16th. Oral Presentation.
- Pederson, N. 2007. Accelerated Growth Rates in Old Trees: the seemingly unimportance of CO₂. University of Kentucky's Annual Spring Symposium. May 11th. Oral Presentation.
- Pederson, N. 2007. The Living Dead, Overachieving Elderly and Other Revelations Through Talkative Trees. The Ohio State University School of Natural Resources Seminar Series. May 9th. Invited Talk.
- Munger, J. W., S. Urbanski, C. Barford, S. Wofsy, C. Kucharik, E. Pyle, J. Budney, K. McKain, N. Pederson, D. Fitzjarrald, and M. Czikowsky. "Trends in CO₂ Exchange at Harvard Forest". U.S. North American Carbon Program Investigators Meeting. Jan 22-24, 2007. Colorado Springs, CO. Poster.
- Pederson, N. 2006. Old-Growth Trees: One Foot in the Grave? American Society of Consulting Arborists Annual Conference, Napa, California, December 4th, 2006. Invited Presentation.
- Pederson, N. 2006. Paleoclimatic and Neo-paleoecological Applications for Kentucky's Mesonet. Annual Meeting of the Kentucky Academy of Sciences, Morehead, KY, November 10th, 2006. Invited Presentation.
- Pederson, N. 2006. Zombie Maples, Day-Walking Pines and Old Trees on 'Supplements': Forest Secrets Revealed Through Tree-Ring Analysis. University of Kentucky Department of Forestry Seminar Series, November 8th, 2006. Invited Presentation.
- Pederson, N. 2006. Changes in Climate Sensitivity and Growth Rates of Trees Across the Hudson River Valley. Changing Climate and Its Consequences In The Hudson River Valley: Past, Present, and Future. NASA/Goddard Institute for Space Studies, New York, NY, Nov 2nd, 2006. Invited Talk.
- Pederson, N. 2006. Nothing Venture, Nothing Gained: Tree-ring Analysis in Temperate Hardwood Forests. Chinese Academy of Sciences' Institute of Botany, Beijing, China, July 1st, 2006. Invited Presentation.
- Pederson, N. 2006. An Introduction to Tree Ring Analysis. West-China Alpine Botanical Garden Dujiayang City, Sichuan Province, China. June 2006. Invited Presentation.
- Pederson, N. E.R. Cook, H.M. Hopton, G.C. Jacoby and K. Griffin. 2006. Evidence of Accelerated Growth in Old Trees: A 'New' Sink for Old Carbon? 7th International Dendrochronological Conference, Beijing, China. June 16th, 2006. Oral Presentation.
- Pederson, N., B. Poulter, M. Evans. 2006. Locating potential old-growth forests in the commonwealth of Kentucky. 7th Eastern Old-Growth Conference. Little Rock, AR.
- Pederson, N., T. D'Amato and D. Orwig. 2006. Natural history from dendrochronology: maximum ages and canopy persistence of rarely studied hardwood species. 15th Central Hardwood Conference. Knoxville, TN.
- Pederson, N. 2005. Temperature Sensitivity, Accelerated Growth Rates in Old Trees and zombie Maples: Dendro-discoveries in the Eastern US. Laboratory of Tree Ring Research, University of Arizona [Invited].
- Pederson, N., E.R. Cook, H.M. Hopton and G.C. Jacoby. 2005. Evidence of Accelerated Growing of Old Trees: a New Sink for Old Carbon. 5th North American Forest Ecology Workshop, Aylmer, Quebec, Can. June 2005.

Selected Community Talks

Organization	Where	When	Title
Floracliff Nature Sanctuary	Fayette, Co., KY	Apr. 26, '09	Trees as Environmental Historians (a hike)
KY Native Plant Society	Natural Bridge, KY	Apr. '09	Stalking the Hidden Ancients, Hidden Right in Front of Your Eyes! (a hike)
KY Native Plant Society	Natural Bridge, KY	Apr. '09	The Value of Old-growth Forests to Mr. Boone & You
LDEO Annual Open House	Palisades, NY	Oct. '03-'04	Hiking the History of Eastern U.S. Dendrochronology
Battle Creek Cypress Swamp Sanctuary	Calvert County, MD	August 2004	Snow Pack: A Winter Blanket for Southern Trees?
League of Naturalists	Bear Mountain St. Park, NY	March 2004	Winter Temperatures and Tree Growth in the Hudson River Valley: Implications for the Carbon Cycle
Vermont County Foresters Annual Meeting	St. Johnsbury, VT	Fall 2003	Experimental Study of Carbon Uptake and Tree-Ring Estimates of Growth
ADK Mtn. Club	Glens Falls, NY	March 2003	Northern Hudson Valley Forests: Crossroads of Today, Gateway for the Future
NY Forest Owners Ann. Meeting	Syracuse, NY	Spring 2002	The Fluid Forests of New York and New England: Evolution of Forests in Response to Climatic changes
Geological Society of Washington	Washington, D.C.	April 2001	Trees rock! The value of tree-ring research in studying Earth and environmental history
Fairbanks Museum and Planetarium	St. Johnsbury, VT	March 12, 1999	Climate Change from a Tree's Perspective
Brighton State Park	Island Pond, VT	Summer 1998	The Value of Old-Growth Forests

Thesis and Dissertation Advisors

E.R. Cook, Lamont-Doherty Earth Observatory, Columbia University (PhD)

G.C. Jacoby, Lamont-Doherty Earth Observatory, Columbia University (PhD)

D. Peteet, Lamont-Doherty Earth Observatory, Columbia University (PhD)

R.H. Jones, Virginia Polytechnical University (MS)

R.R. Sharitz, Savannah River Ecology Laboratory, University of Georgia (MS)