

CURRICULUM VITAE

JOHN M. LHOTKA

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EDUCATION

Doctorate of Philosophy, 2006. Silviculture, Auburn University
Dissertation: Predicting light transmittance and seedling growth across a gradient of riparian forest canopy structures

Master of Science, 2001. Forest Resource Management, Southern Illinois University
Thesis: The effects of soil scarification on oak regeneration in upland and bottomland forests of southern Illinois

Bachelor of Science, *Summa Cum Laude*, 1999. Forestry, Southern Illinois University

PROFESSIONAL EXPERIENCE

Associate Professor of Silviculture, University of Kentucky, Department of Forestry, Lexington, KY, July 2014 to present

Assistant Professor of Silviculture, University of Kentucky, Department of Forestry, Lexington, KY, June 2007 to June 2014

Research Associate, Auburn University, School of Forestry and Wildlife Sciences, Auburn, AL, June 2006 to April 2007

Graduate Research Assistant, Auburn University, School of Forestry and Wildlife Sciences, Auburn, AL, May 2003 to May 2006

Forester (GS-9), USDA Forest Service, Rocky Mountain Research Station, Moscow, ID, July 2001 to March 2003

Graduate Research Assistant, Southern Illinois University, Department of Forestry, Carbondale, IL, August 1999 to May 2001

Intern Forester, Tennessee Valley Authority, Land Between The Lakes, Golden Pond, KY, June 1999 to August 1999

Field Research Technician, Southern Illinois University, Department of Forestry, Carbondale, IL, May 1998 to August 1998

RESEARCH

Extramural Research (\$672,591)

Stringer, J.W., **J.M. Lhotka**, M. Contreras, and M.J. Lacki. 2016-2019. Silvicultural treatments and effects on vertical and horizontal stand structure in forested ecosystems of eastern Kentucky: Response of *Myotis* bats during the staging and maternity seasons. Imperiled Bat Conservation Fund (IBCF), U.S. Fish and Wildlife Service, Kentucky Ecological Services Field Station. \$150,935. J.M. Lhotka co-PI

Lhotka, J.M., C.D. Barton, and J.W. Stringer. 2015-2017. Effect of grading technique on productivity of high-value tree species in reforested surface mine lands. U.S. Department of Interior, Applied Science Program Cooperative Agreements Related to Coal Mining and Reclamation. \$174,765. J.M. Lhotka PI

Lacki, M.J., J.W. Stringer, **J.M. Lhotka**, and M. Contreras. 2014-2017. Effect of silvicultural treatments on vertical stand structure in forested ecosystems of the Appalachian Mountain Region: Implications for foraging and roosting behavior of *Myotis* bats during the staging, maternity, and swarming seasons. The Forestland Group, LLC. \$150,000. J.M. Lhotka co-PI

Lhotka, J.M. Crosswalk and develop GIS mapping applications and accomplishment monitoring geospatial database. 2010-2011. Commonwealth of Kentucky, Energy and Environment Cabinet, Division of Forestry. \$6,000. J.M. Lhotka PI

Lhotka, J.M. and J.W. Stringer. Evaluating seedling development, stand structure, and understory microenvironment six growing seasons following midstory removal. 2009-2010. USDA Forest Service, Southern Research Station, Forestry Research (Federal Domestic Assistance Number: 10.652). \$14,435. J.M. Lhotka PI

J.M. Lhotka directed two M.S. students (Parrott and Craig) whose work was supported by this project. To date, this research has resulted in two M.S. theses, one refereed journal article, one non-refereed proceedings paper, and four presentations at professional meetings

Barton, C.D., **J.M. Lhotka**, R.C. Warner, C.T. Agouridis, D.H. Graves and S. Fei. 2008-2010. Techniques for establishing woody biomass plantations on surface mines as feedstocks for energy production. Kentucky Governors Office of Energy Policy: Energy R&D Program (08-GOEP-01). \$170,773. J.M. Lhotka co-PI

J.M. Lhotka directed M.S. student (Brinks) completing the project. This research has resulted in one M.S. thesis, one refereed journal article, one refereed proceedings paper, and three presentations at professional meetings

Lhotka, J.M. and J.W. Stringer. Evaluating seedling development, stand structure, and understory microenvironment six growing seasons following midstory removal. 2008. USDA Forest Service, Southern Research Station, Forestry Research (Federal Domestic Assistance Number: 10.652). \$5,683. J.M. Lhotka PI

J.M. Lhotka supervised field technician supported by this project. Project yielded one refereed proceedings paper

Other Research Efforts

Lhotka, J.M., A.W. D'Amato, C.D. Nelson, and A.G. Abbott. 2017 to present. Quantifying the effects of climate, silvicultural disturbance, and genetics on the temporal growth response of white oak

J.M. Lhotka is co-PI coordinating the integration tree-ring analysis, long-term plot data, and genetic sampling to understand how white oak climate-growth relationships are affected by thinning method and genetic relatedness among the sample tree population.

Yang, J., **J.M. Lhotka**, and M.A. Contreras. 2016 to present. Microscale spatial heterogeneity of tree mortality in response to macroscale climatic water stress and forest stand development in Appalachia.

J.M. Lhotka is co-PI on the spatially-explicit modeling effort to understand tree mortality in response to forest stand development, site conditions, and climate change in Appalachian forests.

Lhotka, J.M. 2013 to present. Silvicultural approaches to enhance the resiliency of oak-dominated forests to disturbance

University of Kentucky Agricultural Experiment Station Project KY009027

Lhotka, J.M. and T.F. Hutchinson. 2013 to present. Modeling long-term stand density and growth relationships in upland oak stands of Ohio and Kentucky

J.M. Lhotka is the PI directing the analysis of four USDA Forest Service stand density studies that include fifty years of tree growth and yield data

Lhotka, J.M. and J.W. Stringer. 2012 to present. Formulating an expanding-gap irregular shelterwood (*Femelschlag*) system for oak dominated stands

J.M. Lhotka is the project PI and is leading the development of a gap-based silvicultural practice designed to help address the oak regeneration issues present within the Central Hardwood Forest Region of the US. J.M. Lhotka was co-Major Advisor of the M.S. student (Patterson) involved with the project

Lhotka, J.M. 2008 to 2013. Use of underplanting to enhance the health and sustainability of oak-dominated ecosystems in Kentucky and the Central Hardwood Region

University of Kentucky Agricultural Experiment Station Project KY009022

Other Funding Sources (\$8,457)

Lhotka, J.M. Research Activity Award, \$570, Spring 2017, awarded by University of Kentucky, College of Agriculture, Food, and Environment

Lhotka, J.M. and S. Fei. Barnhart Fund Award, \$1,000, 2010, awarded by University of Kentucky, College of Agriculture

Lhotka, J.M. Research Activity Award, \$1,500, Spring 2009, awarded by University of Kentucky, College of Agriculture

Lhotka, J.M. Research Activity Award, \$3,700, Fall 2008, awarded by University of Kentucky, College of Agriculture

Lhotka, J.M. Research Activity Award, \$1,000, Spring 2008, awarded by University of Kentucky, College of Agriculture

Lhotka, J.M. Research Activity Award, \$687, Fall 2007, awarded by University of Kentucky, College of Agriculture

Other Research Proposals Submitted

Selected Extramural Submitted Not Funded

Barton, C.D. C.T Agouridis, K. Jacobson, **J.M. Lhotka**, T.O. Ochuodho. 2017. Integrated Agroenergy Production Systems for Economic and Ecological Transition on Rural Marginal Land. National Science Foundation, CBET-Track 3 Innovations at the Nexus of Food, Energy and Water Systems (NSF 17-530). \$2,489,772.

Stringer, J.W., **J.M. Lhotka**, M. Contreras, C.D. Barton, C.T. Agouridis, and D. Colliver. 2016. Developing a Sustainable Woody Bioenergy System for the Appalachian Coal Basins. Subaward part of Montana Tech of the University of Montana (J.P. Downey, Project Director) EPSCoR Track-2 project titled "RII Track-2 FEC: Center for Sustainable Rural Development". Research Infrastructure Improvement Program: Track-2 Focused EPSCoR Collaborations (NSF 16-511). \$1,109,393

Carlson, J.E., **J.M. Lhotka**, S. Schlarbaum, K.L. Shumaker, J.L. Wegrzyn. 2015. Landscape genomics of responses to environmental stress and forest management activities in oak-dominated forests. National Science Foundation, Plant Genome Research Project (15-548). \$3,959,657 (\$983,204 subaward to co-PI **J.M. Lhotka**)

Lhotka, J.M. and S.J. Price. 2015. Summer undergraduate fellowships in the science and management of Appalachian forest ecosystems. NIFA Agricultural and Food Research Initiative (USDA-NIFA-AFRI-004797), Undergraduate Research and Extension Experiential Learning Fellowship. \$286,012

Keyser, T.L., C.C. Kern, C.R. Webster, **J.M. Lhotka**, and S.J. Price. 2014. Sustaining productivity and a diversity of species with management strategies based on natural disturbance and ecological theory. FY 2014 National Institute of Food and Agriculture, Agriculture and Food Research Initiative (AFRI): Foundational Program (USDA-NIFA-AFRI-004412). \$491,070 (\$195,437 subaward to co-PIs S.J. Price and **J.M. Lhotka**)

Graduate Student Advising and Committee Service

Completed Graduate Students (7)

Clinton Patterson, M.S. Forest and Natural Resource Sciences, 2017, co-Major Advisor with J.W. Stringer

Thesis: Initial understory response to gap-based regeneration methods for mature upland oak forests

Currently: Forester, Berea College Forest

Russell Cunningham, M.S. Forestry, 2015, co-Major Advisor with G.A. Stainback

Thesis: Effects of regeneration opening size and simulated crop tree release on volume yields and economic value in oak-dominated stands

Currently: Forester, Domtar Paper Company

Prativa Shrestha, M.S. Forestry, 2013, co-Major Advisor with G.A. Stainback

Thesis: Carbon life-cycle and economic analysis of forest carbon sequestration and woody bioenergy production

Publications: One non-refereed proceedings paper

Currently: Ph.D. student, Mississippi State University

Jared Craig, M.S. Forestry, 2012, Major Advisor

Thesis: Effects of midstory removal and shoot clipping on the growth and development of three oak species

Publications: One refereed proceedings paper, one non-refereed extended abstract, one refereed journal article in revision

Currently: Forester, Ohio Division of Forestry

Zachary Leitch, M.S. Forestry, 2012, Major Advisor

Thesis: Private landowner intent to supply forest biomass for energy in Kentucky

Publications: One refereed journal article

David Parrott, M.S. Forestry, 2011, Major Advisor

Thesis: Effects of midstory removal on black oak (*Quercus velutina*) and white oak (*Quercus alba*) regeneration

Publications: Two refereed journal articles, one refereed proceedings paper

Currently: Forester, Ohio Division of Forestry

Joshua Brinks, M.S. Forestry, 2010, Major Advisor

Thesis: Two year response of a woody biofuel plantation to intensive management on a reclaimed surface mine in eastern Kentucky

Publications: Two refereed journal articles, one refereed proceedings paper

Currently: Graduate Fellow and Ph.D. student, Penn State University

Current Graduate Students (4)

Joseph Frederick, M.S. Forest and Natural Resource Sciences, co-Major Advisor with C.D. Barton

Zachary Hackworth, M.S. Forest and Natural Resource Sciences, co-Major Advisor with J.J. Cox

Wesley Dement, M.S. Forest and Natural Resource Sciences, co-Major Advisor with C.D. Barton

Philip Arant, M.S. Forest and Natural Resource Sciences,, co-Major Advisor with M.J. Lacki

Graduate Committee Service (17)

Thirteen M.S. students, University of Kentucky, Department of Forestry

One M.S. student, University of Kentucky, Department of Biology

One Ph.D. student, University of Kentucky, Department of Geography

One Ph.D. student, University of Kentucky, Department of Biology

One Ph.D. student, Auburn University, School of Forestry and Wildlife Sciences

Graduate Student Awards (7)

David Parrott (2011), Jared Craig (2012), Prativa Shrestha (2013), Forestry Graduate Student Awards for Excellence in Research, Academic Performance, and Service, awarded by the University of Kentucky Department of Forestry

David Parrott, Outstanding Graduate Student Poster Award, 2011, awarded at the 16th Biennial Southern Silviculture Research Conference

David Parrott, Student Travel Scholarship, 2011, awarded by the 16th Biennial Southern Silviculture Research Conference committee

David Parrott, Outstanding Student Paper Award, 2010, awarded at 17th Central Hardwood Forest Conference

Joshua Brinks, Second Place Poster Presentation, 2009 University of Kentucky Graduate Student Interdisciplinary Conference

Research Staff Supervision

David Parrott, Laboratory Technician Senior, August 2011 to March 2013

Publications: Two refereed journal articles, one extension publication

PUBLICATIONS

† Indicates corresponding author

Underline indicates graduate student or technician who participated under my supervision

JIF denotes journal impact factor from Journal Citation Reports® published by Thomson Reuters

Refereed Journal Articles (29)

Kara, F. †, E.F. Loewenstein, **J.M. Lhotka**, J.S. Kush. In Press. A Gingrich style stocking chart for longleaf pine (*Pinus palustris* Mill.) Forests. *Forest Science* (Accepted April, 21 2017) (*JIF*: 1.702)

Lhotka, J.M.[†] 2017. Examining growth relationships in *Quercus* stands: An application of individual-tree models developed from long-term thinning experiments. *Forest Ecology and Management* 385: 65-77. (*JIF*: 2.826)

Lhotka, J.M.[†], D.L. Parrott, and C.M. Ruffner. 2016. A dendroecological investigation of an upland oak-dominated forest within the Grand Prairie region of Illinois. *Natural Areas Journal* 36(3): 310-322. (*JIF*: 0.659)

Nepal, S., M. Contreras[†], G.A. Stainback, and **J.M. Lhotka**. 2015. Quantifying the effects of biomass market conditions and policy incentives on economically feasible sites to establish dedicated energy crops. *Forests* 6(11): 4168-4190. (*JIF*: 1.449)

Lhotka, J.M.[†] and E.F. Loewenstein. 2015. Comparing individual-tree approaches for predicting height growth of underplanted seedlings. *Annals of Forest Science* 72(4): 469-477. (*JIF*: 1.536)

Shrestha, P., G.A. Stainback[†], P. Dwivedi, and **J.M. Lhotka**. 2015. Economic and life-cycle analysis of forest carbon sequestration and wood-based bioenergy offsets in the central hardwood region of United States. Submitted to *Journal of Sustainable Forestry* 34(3): 214-232. (*JIF*: n/a)

Nepal, S., M. Contreras[†], **J.M. Lhotka**, and G.A. Stainback. 2014. A spatially explicit model to identify suitable sites to establish dedicated woody energy crops. *Biomass and Bioenergy* 71: 245-255. (*JIF*: 2.975)

Craig, J.M., **J.M. Lhotka**[†], and J.W. Stringer. 2014. Evaluating initial responses of natural and underplanted oak reproduction and a shade tolerant competitor to midstory removal. *Forest Science* 60(6): 1164-1171. (*JIF*: 1.523)

J.M. Lhotka[†], and J.W. Stringer. 2013. Forest edge effects on *Quercus* reproduction within naturally regenerated mixed broadleaf stands. *Canadian Journal of Forest Research* 43(10):911-918. (*JIF*: 1.559)

Catron, J.F., G.A. Stainback[†], **J.M. Lhotka**, J.W. Stringer, and L. Hu. 2013. Financial and management implications of producing energywood in upland oak stands in Kentucky. *Northern Journal of Applied Forestry* 30(4):164-169. (*JIF*: 0.435)

Parrott, D.L., **J.M. Lhotka**[†], and J.W. Stringer. 2013. The effect of soil scarification on *Quercus* seedling establishment within upland stands of the Northern Cumberland Plateau. *Northern Journal of Applied Forestry* 30(3):125-130. (*JIF*: 0.435)

Leitch, Z.J., **J.M. Lhotka**[†], G.A. Stainback, and J.W. Stringer. 2013. Private landowner intent to supply woody feedstock for bioenergy production. *Biomass and Bioenergy* 56:127-136. (*JIF*: 2.975)

- Lhotka, J.M.**[†], and E.F. Loewenstein. 2013. Development of three underplanted hardwood species seven years following midstory removal. *Southern Journal of Applied Forestry* 37(2):81-90. (*JIF*: 0.320)
- Lhotka, J.M.**[†] 2013. Effect of gap size on mid-rotation stand structure and species composition in a naturally regenerated mixed broadleaf forest. *New Forests* 44(3):311-325. (*JIF*: 1.636)
- Catron, J., G.A. Stainback[†], P. Dwivedi, and **J.M. Lhotka**. 2013. Bioenergy development in Kentucky: A SWOT-ANP analysis. *Forest Policy and Economics* 28:38-43. (*JIF*: 1.638)
- Parrott, D.L., **J.M. Lhotka**[†], J.W. Stringer, and D.N. Dillaway. 2012. Seven-year effects of midstory removal on natural and underplanted oak reproduction. *Northern Journal of Applied Forestry* 29(4):182-190. (*JIF*: 0.435)
- Parrott, D.L., **J.M. Lhotka**[†], S. Fei, and B.S. Shouse. 2012. Improving woody biomass estimation efficiency using double sampling. *Forests* 3(2):179-189. (*JIF*: 1.094)
- Lhotka, J.M.**[†] 2012. Height-diameter relationships in sweetgum (*Liquidambar styraciflua*) dominated stands. *Southern Journal of Applied Forestry* 36(2):98-106. (*JIF*: 0.320)
- Parrott, D.L., J.S. Brinks, and **J.M. Lhotka**[†]. 2012. Designing Nelder wheel plots for tree density experiments. *New Forests* 43(2):245-254. (*JIF*: 1.636)
- Lhotka, J.M.**[†], and E.F. Loewenstein. 2011. An individual-tree diameter growth model for managed uneven-aged oak-shortleaf pine stands in the Ozark Highlands of Missouri, USA. *Forest Ecology and Management* 261:770-778. (*JIF*: 2.826)
- Brinks, J.S., **J.M. Lhotka**[†], C.D. Barton, R.C. Warner, and C.T. Agouridis. 2011. Effects of fertilization and irrigation on American sycamore and black locust planted on a reclaimed surface mine in Appalachia. *Forest Ecology and Management* 261:640-648. (*JIF*: 2.826)
- Lhotka, J.M.**[†], and E.F. Loewenstein. 2009. Effect of midstory removal on understory light availability and the 2-year response of underplanted cherrybark oak seedlings. *Southern Journal of Applied Forestry* 33(4):171-177. (*JIF*: 0.320)
- Lhotka, J.M.**[†], and E.F. Loewenstein. 2008. An examination of species-specific growing space utilization. *Canadian Journal of Forest Research* 38(3):470-479. (*JIF*: 1.559)
- Lhotka, J.M.**[†], and E.F. Loewenstein. 2008. Influence of canopy structure on the survival and growth of underplanted seedlings. *New Forests* 35(1):89-104. (*JIF*: 1.636)
- Lhotka, J.M.**[†], and E.F. Loewenstein. 2007. A weighted relative density model applied to loblolly pine (*Pinus taeda* L.) stands. *African Journal of Agricultural Research* 2(7):300-304. (*JIF*: n/a)

Lhotka, J.M.[†], and E.F. Loewenstein. 2006. Indirect measures for characterizing light along a gradient of mixed-hardwood riparian forest canopy structures. *Forest Ecology and Management* 226(1-3):310-318. (*JIF*: 2.826)

Zaczek, J.J.[†], and **J.M. Lhotka**. 2004. Seedling reproduction established with soil scarification within an oak overwood after overstory removal. *Northern Journal of Applied Forestry* 21(1):5-11. (*JIF*: 0.435)

Lhotka, J.M.[†], and J.J. Zaczek. 2003. Effects of scarification disturbance on the seedling and midstory layer in a successional mixed-oak forest. *Northern Journal of Applied Forestry* 20(2):85-91. (*JIF*: 0.435)

Lhotka, J.M.[†], and J.J. Zaczek. 2003. Soil scarification effects on oak reproduction in two mixed-oak bottomland stands of Southern Illinois. *Southern Journal of Applied Forestry* 27(3):164-171. (*JIF*: 0.320)

Publications in Review (3)

Yang, Y., W.H. Cai, J. Yang, M. White, **J.M. Lhotka**. In Review. Dynamics of post-fire aboveground carbon in a chronosequence of Chinese boreal larch forests. Submitted to *Ecological Monographs* in November 2017.

Lhotka, J.M.[†], R.A. Cunningham, and J.W. Stringer. In Review. Effect of silvicultural gap size on long-term species recruitment, growth, and volume yields in upland *Quercus* dominated stands. Submitted to *Forestry* October 6, 2017

Agha, M., B.D. Todd, B. Augustine, **J.M. Lhotka**, L.J. Fleckenstein, M. Lewis, C. Patterson, J.W. Stringer, S.J. Price[†]. In Review. Effects of gap-based silviculture on thermal biology of a terrestrial reptile. Submitted to *Wildlife Research* August 15, 2017

Books and Edited Volumes (1)

Fei, S., **J.M. Lhotka**, J.W. Stringer, K.W. Gottschalk, and G.W. Miller (eds.). 2011. Proceedings of the 17th Central Hardwood Forest Conference. USDA Forest Service, Newtown Square, PA. General Technical Report NRS-P-778. 678 p

Conference proceedings included 60 refereed research papers and 17 extended abstracts

Refereed Conference Proceedings (5)

Craig, J.M., **J.M. Lhotka**[†], and J.W. Stringer. 2013. Response of naturally regenerated and underplanted white oak (*Quercus alba* L.) seedlings six years following midstory removal. P. 365-372 in Proceedings, 18th Central Hardwood Forest Conference., Miller, G.W., T.M. Schuler, K.W. Gottschalk, J.R. Brooks, S.T. Grushecky, B.D. Spong, and J.S. Rentch (eds.). USDA For. Ser., Northern Research Station, Newtown Square, PA. Gen. Tech. Rep. NRS-P-117.

Brinks, J.S., **J.M. Lhotka**[†], and C.D. Barton. 2011. One-year response of American sycamore (*Platanus occidentalis* L.) and black locust (*Robinia pseudoacacia* L.) to granular fertilizer applications on a reclaimed surface mine in eastern Kentucky. P. 306-313 in

Proceedings of the 17th Central Hardwood Forest Conference, Fei, S., J.M. Lhotka, J.W. Stringer, K.W. Gottschalk, and G.W. Miller (eds.). USDA Forest Service, Northern Research Station, Newtown Square, PA. General Technical Report NRS-P-78

Parrott, D.L., J.M. Lhotka[†], and J.W. Stringer. 2011. Effects of midstory removal on underplanted black oak and white oak in the western Cumberland Plateau. P. 270-276 *in* Proceedings of the 17th Central Hardwood Forest Conference, Fei, S., J.M. Lhotka, J.W. Stringer, K.W. Gottschalk, and G.W. Miller (eds.). USDA Forest Service, Northern Research Station, Newtown Square, PA. General Technical Report NRS-P-78

Lhotka, J.M.[†], and J.J. Zaczek. 2003. The development of oak reproduction following soil scarification - implications for riparian forest management. P. 199-202 *in* Proceedings 13th Central Hardwood Forest Conference, Van Sambeek, J.W., J.O. Dawson, J. Ponder, F., E.F. Loewenstein, and J.S. Fralish (eds.). USDA Forest Service, North Central Research Station, St. Paul, MN. General Technical Report NC-234

Ruffner, C.M.[†], A. Trieu, S. Chandy, M.D. Davis, D. Fishel, G. Gipson, **J. Lhotka**, K. Lynch, P. Perkins, S.L. van de Gevel, W. Watson, and E. White. 2003. From savanna to campus woodlot: the historical ecology of farm woodlots in Southern Illinois. P. 333-342 *in* Proceedings 13th Central Hardwood Forest Conference, Van Sambeek, J.W., J.O. Dawson, J. Ponder, F., E.F. Loewenstein, and J.S. Fralish (eds.). USDA Forest Service, North Central Research Station, St. Paul, MN. General Technical Report NC-234.

Non-Refereed Conference Proceedings (5)

Lhotka, J.M.[†], and E.F. Loewenstein. 2013. A comparison of canopy structure measures for predicting height growth of underplanted seedlings. P. 289-293 *in* Proceedings of the 15th Biennial Southern Silvicultural Research Conference, Guldin, J.M. (ed.). USDA Forest Service, Southern Research Station, Asheville, NC. e-General Technical Report SRS-175

Cotton, C., C. Barton[†], **J. Lhotka**, P. Angel, and D. Graves. 2012. Evaluating reforestation success on a surface mine in Eastern Kentucky. P. 16-23 *in* National Proceedings: Forest and Conservation Nursery Associations - 2011, Haase, D.L., J.R. Pinto, and L.E. Riley (eds.). USDA Forest Service, Rocky Mountain Research Station, Fort Collins, CO. Proceedings RMRS-P-68

Lhotka, J.M.[†], and E.F. Loewenstein. 2006. Initial response of underplanted yellow poplar and cherrybark oak seedlings to four levels of mechanical midstory removal. P. 275-278 *in* Proceedings of the 13th Biennial Southern Silvicultural Research Conference, Conner, K.F. (ed.). USDA Forest Service, Southern Research Station, Asheville, NC. General Technical Report SRS-92

Lhotka, J.M.[†], J.J. Zaczek, and R.T. Graham. 2004. The influence of soil scarification on oak reproduction: Review and management considerations. P. 292-294 *in* Upland Oak Ecology Symposium: History, Current Conditions, and Sustainability, Spetich, M.A. (ed.). USDA Forest Service, Southern Research Station, Asheville, NC. General Technical Report SRS-73

Lhotka, J.M.[†], and J.J. Zaczek. 2002. The use of soil scarification to enhance oak regeneration in a mixed-oak bottomland forest of southern Illinois. P. 401-404 *in* Proceedings of the 11th Biennial Southern Silvicultural Research Conference, Outcalt, K.W. (ed.). USDA Forest Service, Southern Research Station, Asheville, NC. General Technical Report SRS-48

Extended Abstracts in Non-Refereed Conference Proceedings (1)

Craig, J.M., J.M. Lhotka[†], and J.W. Stringer. In Press. Six-year effect of midstory removal on white oak growth and biomass distribution and seedling response one year post-clipping. *in* Proceedings of the 17th Biennial Southern Silvicultural Research Conference. USDA Forest Service, Southern Research Station, Asheville, NC. General Technical Report

Extension Publications (2)

Parrott, D.L.[†], J.M. Lhotka, and J.W. Stringer. 2012. Using midstory removal to enhance oak development. Kentucky Woodlands Magazine 7(2):16-17

Lhotka, J.M.[†] and J.W. Stringer. 2008. Improving oak regeneration through soil scarification and underplanting. Forest Landowner 67(6):38-39

TEACHING AND ADVISING

Extramural Funding

Bullard, S.H., D.W. Cremeans, T.L. Cushing, S. Fei, **J.M. Lhotka**, and L.R. Lhotka. 2008-2010. Reviving traditional forestry with HP technology. 2008 HP Technology for Teaching Higher Education Award. \$77,000

J.M. Lhotka assumed the project director role in May 2009 and taught the two primary courses involved in this project, FOR 350 and FOR 480

Courses Taught

FOR 350 - Silviculture (4 credits)

Semester	Enrollment	Course Evaluation* (College Mean)	Teaching Evaluation* (College Mean)
Fall 2017	15	-	-
Fall 2016	12	4.73 (4.23)	4.82 (4.35)
Fall 2015	10	Not Available [#]	Not Available
Fall 2014	18	3.82 (3.37)	3.91 (3.42)
Fall 2013	23	3.6 (3.5)	3.6 (3.5)
Fall 2012	19	3.8 (3.4)	3.9 (3.4)
Fall 2011	18	3.5 (3.4)	3.5 (3.5)
Spring 2011	12	3.7 (3.4)	3.7 (3.5)
Spring 2010	10	4.0 (3.4)	3.9 (3.4)

Spring 2009	17	3.5 (3.3)	3.4 (3.4)
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*Scale 0 to 5 from 2016 to present, 0 to 4 prior to 2016
 #Not available – Scores not reported by UK when < 5 surveys are completed

FOR 358 - Silvicultural Practices (3 credits)

Semester	Enrollment	Course Evaluation* (College Mean)	Teaching Evaluation* (College Mean)
Spring 2017	11	Not Available [#]	Not Available
Spring 2016	8	Not Available [#]	Not Available
Spring 2015	14	3.89 (3.35)	3.89 (3.45)
Spring 2014	18	3.77 (3.31)	3.85 (3.39)
Spring 2013	20	3.9 (3.5)	4.0 (3.5)
Spring 2012	16	3.9 (3.4)	3.8 (3.5)

*Scale 0 to 5 from 2016 to present, 0 to 4 prior to 2016
 #Not available – Scores not calculated by UK when < 5 surveys are completed

FOR 480 - Integrated Resource Management (5 credits). Co-taught (50% responsibility) with J.M. Ringe (2009 to 2015) and T.L. Cushing (2008)

Semester	Enrollment	Course Evaluation* (College Mean)	Teaching Evaluation* (College Mean)
Spring 2017	9	Not Available [#]	Not Available
Spring 2016	14	3.4 (3.35)	3.6 (3.48)
Spring 2015	17	3.58 (3.35)	3.75 (3.45)
Spring 2014	20	3.5 (3.31)	3.72 (3.39)
Spring 2013	16	3.9 (3.4)	3.9 (3.5)
Spring 2012	11	3.9 (3.4)	3.7 (3.5)
Spring 2011	9	3.9 (3.4)	4.0 (3.5)
Spring 2010	17	3.9 (3.4)	3.9 (3.4)
Spring 2009	14	3.7 (3.3)	3.8 (3.4)
Spring 2008	7	2.9 (3.3)	3.1 (3.3)

*Scale 0 to 5 from 2016 to present, 0 to 4 prior to 2016

FOR 770 – Ecology and Silviculture of Oak Dominated Forests (1 credit)

Semester	Enrollment	Course Evaluation* (College Mean)	Teaching Evaluation* (College Mean)
Fall 2014	7	3.4 (3.37)	3.4 (3.42)

*Scale 0 to 4

FOR 770 - Continuous Cover Forestry (1 credit)

Semester	Enrollment	Course Evaluation* (College Mean)	Teaching Evaluation* (College Mean)
Fall 2009	7	4.0 (3.3)	3.7 (3.4)

*Scale 0 to 4

FOR 399 - Field-based Education in Forestry

Fall 2010, Topic: Advanced forest inventory techniques, Enrollment: 1 (1 credit)

FOR 376 - Silvicultural Practices (2 credits)

Summer 2010, Co-instructor assisting during one week of this two week field course,
Enrollment: 12

Summer 2009, Co-instructor assisting during one week of this two week field course,
Enrollment: 14

FOR 599 - Independent Work in Forestry

Fall 2016, Topic: Advanced Silviculture, Enrollment: 2 (3 credits)

Spring 2016, Topic: Introduction to Tree-Ring Methods and Research, Enrollment: 1 (3 credits)

Spring 2011, Topic: Advanced Silviculture, Enrollment: 1 (3 credits)

Spring 2010, Topic: Advanced Silviculture, Enrollment: 2 (3 credits)

FOR 602 - Renewable Natural Resources in a Global Perspective (3 credits)

Fall 2017, Co-instructor responsible for two 50-minute class sessions, Enrollment: 11

Fall 2015, Co-instructor responsible for two 50-minute class sessions, Enrollment: 11

Fall 2013, Co-instructor responsible for two 50-minute class sessions, Enrollment: 16

Fall 2011, Co-instructor responsible for two 50-minute class sessions, Enrollment: 15

Fall 2009, Co-instructor responsible for two 50-minute class sessions, Enrollment: 9

FOR 781 – Special Problems in Forestry

Fall 2015, Topic: Critique of silvicultural research papers, Enrollment: 1 (1 credit)

Spring 2015, Topic: Silviculture of upland oak stands, Enrollment: 1 (1 credit)

FOR 791 - Research in Forestry

Fall 2011, Topic: Tree-ring analysis, Enrollment: 1 (2 credit)

Fall 2010, Topic: Design of tree density experiments, Enrollment: 1 (1 credit)

Guest Lectures

FOR 357 - Inventory and Measurements II

Introduction to TwoDog forest inventory software, February 3, 2012, February 15, 2013

FOR 375 - Forest Mensuration

Introduction to TwoDog forest inventory software, May 19-20, 2008, May 26-27, 2009,
May 25-26, 2010, May 23-24, 2011

FOR 425 - Forest Management

Introduction to growth and yield modeling, September 26, 2007, October 1, 2007, and September 24, 2008

Professional Development in Instructional Methodology

University of Kentucky Faculty Fellows Program (Cohort 6 – 2016 to 2017 academic year)

Undergraduate Student Research Mentorship

Eaton, D. 2016. The effect of silvicultural gap size on the growth rate of individual trees in a mixed broadleaf forest. Poster presented at the University of Kentucky Showcase of Undergraduate Scholars. April 27, 2016

Student Advising

2017: one forestry student

2014-2015: two forestry students

2013: Spring advising, one forestry student

2012: Summer advising, one forestry student

2009: Summer advising, one forestry student

PRESENTATIONS AND CONSULTATIONS

† Indicates presenter

Underline indicates graduate student or technician who participated under my supervision

Invited Presentations (15)

Lhotka, J.M. †, J.W. Stringer, J.M. Craig, and C.P. Patterson. Application of midstory removal to enhance oak regeneration potential within uniform and irregular shelterwood systems. Oak Symposium: Sustaining Oak Forests in the 21st Century through Science-based Management. October 24-26, 2017, Knoxville, TN

Lhotka, J.M. † Disturbance dynamics in upland oak forests with specific reference to the charcoal iron industry. 36th Annual Central States Forest Soils Workshop. October 12, 2016. Aurora, KY

Lhotka, J.M. † Forest community patterns and regeneration ecology of oak-dominated forests within Land Between the Lakes. 36th Annual Central States Forest Soils Workshop. October 11, 2016. Aurora, KY

Lhotka, J.M. † Advanced woodland management practices. University of Kentucky Forestry Extension, Woodland Owners Short Course. August 15, 2015. Versailles, KY

Lhotka, J.M. † Formulating an expanding-gap silvicultural system to address oak regeneration issues in the Central Hardwood Forest Region. University of Washington, School of Environmental and Forest Sciences, Advanced Silviculture Seminar (SEFS 526). April, 2 2015. Seattle, WA (via video conference)

Lhotka, J.M.[†] Forest edge effects on oak regeneration in gap-based silvicultural systems. Eastern Kentucky University, Department of Biology Seminar Series. February 13, 2015. Richmond, KY

Lhotka, J.M.[†] Forest edge effects on oak regeneration in gap-based silvicultural systems. University of Kentucky Department of Biology, Eco-Lunch Seminar Series. September 5, 2014. Lexington, KY

Lhotka, J.M.[†] Vegetation management and soils (1945 to 1975): Silvicultural systems. Priest River Experimental Forest Centennial Celebration. October 7, 2011. Priest River, ID

Lhotka, J.M.[†] Wood energy harvesting and woodlands – Costs and benefits for woodland owners. Biomass Harvesting in Kentucky Forestry Extension Workshops. Three presentations given on July 12, 13, and 14, 2011 in Princeton, London, and Morehead, KY, respectively

Lhotka, J.M.[†] Faster timber cruising using point double sampling. Association of Consulting Foresters Kentucky Chapter, Spring Continuing Education Program. April 28, 2011. Lexington, KY

Lhotka, J.M.[†] Management of oak in Kentucky. Conducted two field tours for the Association of Consulting Foresters of America, Inc. National Conference. June 29, 2010

Lhotka, J.M.[†] Unintended consequences of biomass harvesting. Kentucky-Tennessee Chapter of the Society of American Foresters Winter Meeting. January 28, 2010. Lexington, KY

Lhotka, J.M.[†] Predicting understory light transmittance and hardwood seedling growth across a canopy structure gradient. University of Missouri, Forestry Graduate Student Association seminar. October 3, 2008. Columbia, MO

Lhotka, J.M.[†] Soil scarification to improve oak establishment. Indiana Society of American Foresters, 2008 Summer Meeting. August 26, 2008. Columbus, IN

Lhotka, J.M.[†] Soil scarification to improve oak establishment. Oak Regeneration and Management Professional Forestry Workshop hosted by University of Kentucky – University of Tennessee Cooperative Extension Partnership. October 3-4, 2007. Lexington, KY

Oral Presentations (22)

Dement, W.[†], **J.M. Lhotka**, C.D. Barton, J.W. Stringer. An investigation of tree growth and colonization on a 19 year-old forestry reclamation site. National Association of Abandoned Mine Land Programs Conference, Lexington, KY, September 24, 2017

Dement, W.[†], **J.M. Lhotka**, C.D. Barton, J.W. Stringer. An investigation of tree growth and colonization on a 19 year-old forestry reclamation site. Joint Conference of the American

Society of Mining and Reclamation and Appalachian Regional Reforestation Initiative, Morgantown, WV, April 9, 2017

Lhotka, J.M.[†], R.A. Cunningham, and J.W. Stringer. Effect of silvicultural gap size on long-term species growth, stand yield, and economic value in upland *Quercus* dominated stands. Paper presented at the 10th IUFRO International Workshop on Uneven-aged Silviculture. Little Rock, AR, May 31 to June 2, 2016

Lhotka, J.M.[†] and J.W. Stringer. Forest edge effects on oak regeneration in gap-based silvicultural systems. Society of American Foresters National Convention. October 23-26, 2013. Charleston, SC

Lhotka, J.M.[†] and J.W. Stringer. Formulating an expanding-gap regeneration system for *Quercus* dominated stands. 9th North American Forest Ecology Workshop. June 17-20, 2013. Bloomington, IN

Lhotka, J.M.[†] Formulating an expanding gap system for *Quercus* dominated stands. University of Kentucky Department of Forestry seminar. November 26, 2012

Craig, J.M.[†], **J.M. Lhotka**, and J.W. Stringer. Response of naturally regenerated and underplanted white oak (*Quercus alba* L.) seedlings six years following midstory removal. 18th Central Hardwood Forest Conference. March 26-28, 2012. Morgantown, WV

Lhotka, J.M.[†] Wood energy harvesting and woodlands: Costs and benefits for Kentucky's forest resources. University of Kentucky Department of Forestry seminar. August 29, 2011

Brinks, J.S.[†], **J.M. Lhotka**, and C.D. Barton. Intensive management of a woody biofuel plantation on a reclaimed Appalachian surface mine. 8th North American Forest Ecology Workshop. June 19-23, 2011. Roanoke, VA

Lhotka, J.M.[†] Revisiting the 1960 size of opening oak regeneration study on Robinson Forest. University of Kentucky Department of Forestry seminar. September 13, 2010

Brinks, J.S.[†], **J.M. Lhotka**, and C.D. Barton. One year response of American sycamore (*Platanus Occidentalis*) and black locust (*Robinia Pseudoacacia*) to granular fertilizer applications on a reclaimed surface mine in Eastern Kentucky. 17th Central Hardwood Forest Conference. April 5-7, 2010. Lexington, KY

Parrott, D.L.[†], **J.M. Lhotka**, and J.W. Stringer. Effects of midstory removal on underplanted black oak (*Quercus velutina*) and white oak (*Quercus alba*) in Western Cumberland Plateau. 17th Central Hardwood Forest Conference. April 5-7, 2010. Lexington, KY

Lhotka, J.M.[†] and E.F. Loewenstein. A comparison of canopy structure measures for predicting height growth of underplanted seedlings. 15th Biennial Southern Silviculture Research Conference. November 17-20, 2008. Hot Springs, AR

Lhotka, J.M. and E.F. Loewenstein[†]. Diameter increment models for individual trees within upland oak stands managed using single-tree selection. 6th IUFRO Workshop of Uneven-aged Silviculture, Feasibility of Silviculture for Complex Stand Structures: Designing Stand Structures for Sustainability and Multiple Objectives. October 24-27, 2008. Shizuoka, Japan

Lhotka, J.M.[†] and E.F. Loewenstein. Individual tree based growing space model for quantitative management of uneven-aged stands. IFURO Natural Disturbance-Based Silviculture – Managing for Complexity conference. May 14-18, 2006. Rouyn-Noranda, Québec

Lhotka, J.M.[†] Silvicultural implications of forest canopy structure based light transmittance and seedling growth models. Southern Illinois University Department of Forestry seminar. April 12, 2006. Carbondale, IL

Loewenstein, N.J.[†], E.F. Loewenstein, **J.M. Lhotka** and B.J. Ostrom. Response of *Microstegium vimineum* and *Lonicera japonica* to continuous forest cover forestry practices. 7th annual Southeast Exotic Plant Pest Council symposium. May 3-5 2005. Birmingham, AL

Lhotka, J.M.[†] and E.F. Loewenstein. Initial response of underplanted yellow poplar and cherrybark oak seedlings to four levels of mechanical midstory removal. 13th Biennial Southern Silviculture Research Conference. February 28-March 4, 2005. Memphis, TN

Lhotka, J.M.[†] and J.J. Zaczek. The development of oak reproduction following soil scarification – Implications in riparian forest management. 13th Central Hardwood Forest Conference. April 1-3, 2002. Champaign, IL

Lhotka, J.M.[†] and J.J. Zaczek. Use of soil scarification to enhance oak regeneration in a mixed-oak bottomland forest of southern Illinois. 11th Biennial Southern Silviculture Research Conference. March 19-22, 2001. Knoxville, TN

Lhotka, J.M.[†] and J.J. Zaczek. The enhancement of oak regeneration through the use of mechanical incorporation of acorns in a mixed-oak upland forest in southern Illinois. 62nd Association of Southeastern Biologist annual meeting. April 4-7, 2001. New Orleans, LA

Lhotka, J.M.[†] and J.J. Zaczek. The use of soil scarification to enhance oak regeneration: Five-year results. 61st Association of Southeastern Biologist annual meeting. April 5-7, 2000. Chattanooga, TN

Poster Presentations (15)

Dement, W.[†], **J.M. Lhotka**, C.D. Barton, J.W. Stringer. Effect of grading on productivity of high-value tree species in Appalachian surface mines. 19th Biennial Southern Silviculture Research Conference, Blacksburg, VA, March 13, 2017

Dement, W.[†], **J.M. Lhotka**, C.D. Barton, J.W. Stringer. Effect of grading on productivity of high-value tree species in Appalachian surface mines. 2016 Tracy Farmer Institute for Sustainability and the Environment Forum, Lexington, KY, December 1, 2016

Dement, W.[†], **J.M. Lhotka**, C.D. Barton, J.W. Stringer. Effect of grading on productivity of high-value tree species in Appalachian surface mines. Society of American Foresters National Convention. Madison, WI, November 2, 2016

Patterson, C.P.[†], **Lhotka, J.M.** and J.W. Stringer. Initial understory response to gap-based regeneration methods for mature upland oak forests. 18th Biennial Southern Silvicultural Research Conference. March 2-5, 2015. Knoxville, TN

Lhotka, J.M.[†] and J.W. Stringer. Formulating an expanding-gap regeneration system for *Quercus* dominated stands. Society of American Foresters National Convention. October 24-27, 2012. Spokane, WA

Shaffer, J.D.[†], S.K. Gleeson, J.J. Cox, and **J.M. Lhotka**. The influence of grass competition and herbivory on native hardwood seedling establishment in the Inner Bluegrass of Kentucky. 97th Annual Ecological Society of America meeting. August 5-10, 2012. Portland, OR

Craig, J.M.[†] and **J.M. Lhotka**. Using the dendrochronology program library (dplR) to document the influence of environmental conditions and human disturbance on tree growth in a Kentucky forest. 18th Central Hardwood Forest Conference. March 26-28, 2012, Morgantown, WV

Parrott, D.L.[†], **J.M. Lhotka**, J.W. Stringer. Impact of ice damage on overstory canopy structure and oak reproduction established following midstory removal. 16th Biennial Southern Silviculture Research Conference. February 14-17, 2011. Charleston, SC

Brinks, J.S.[†], **J.M. Lhotka**, and C.D. Barton. Biomass accumulation in black locust and American sycamore on reclaimed surface mines in eastern Kentucky. University of Kentucky Graduate Student Interdisciplinary Conference. April 3, 2009. Lexington, KY

Lhotka, J.M.[†], M.R. Saunders, J.M. Kabrick, D.C. Dey. Regenerating oak dominated forests using irregular, gap-based silvicultural systems. 15th Biennial Southern Silviculture Research Conference. November 17-20, 2008. Hot Springs, AR

Lhotka, J.M. and J.J. Zaczek[†]. 2006. Scarification seeding of oak: Reproduction in three case studies. IUFRO Advances in Principles and Practices of Oak Silviculture and Genetics. September 24-27, 2006. Stevens Point, WI

Rawls, R.P.[†], **J.M. Lhotka**[†], E.F. Loewenstein, J.M. McDaniel, and M.F. Smidt. Stakeholder preferences among various forest management regimes at the wildland-urban interface. Emerging Issues along Urban/Rural Interfaces: Linking Science and Society conference. March 13-16, 2005. Atlanta, GA

Lhotka, J.M.[†], J.J. Zaczek, and R.T. Graham. The influence of soil scarification on oak reproduction: Review and management recommendations. Upland Oak Ecology Symposium: History, Current Conditions, and Sustainability. October 7-10, 2002. Fayetteville, AR

Graham, R.T.[†], T.B. Jain, and **J.M. Lhotka**. Physically and biologically enhancing residual decomposition. Joint Fire Sciences Program Principal Investigator Workshop. March 11-14, 2002. San Antonio, TX

Graham, R.T.[†], T.B. Jain, and **J.M. Lhotka**. Structural and fuel treatments for restoring old-growth ponderosa pine forests in the Interior West. Joint Fire Sciences Program Principal Investigator Workshop. March 11-14, 2002. San Antonio, TX

Consultations (6)

September 26, 2017: Day-long field visit to discuss white oak sustainability with three partnering companies Central Kentucky Forest Management, Elk Cave Timber, and Irish Distillers

August, 20 2013: Day-long field visit to Fort Knox Military Reservation to discuss upland hardwood management strategies with Department of Defense forestry staff and a consultant with Central Kentucky Forest Management

April 22, 2013: Discussed integration of forest inventory software and growth and yield models with Fogarty Forestry, LLC, Consultant from West Newbury, VT

November 18, 2009: Discussed gap-based regeneration approaches for upland oak stands with Kentucky Natural Lands Trust, Forest Steward from Berea, KY

April 6, 2009: Discussed techniques for reforestation of reclaimed surface mines with Chevron Mining Inc., Environmental Engineer from Berry, AL

October 23, 2008: Discussed methods for regenerating oak on productive sites in eastern Missouri with Missouri Department of Conservation, Resource Forester from Perry County, MO

SERVICE AND RECOGNITION

Editorships, Review Panels, Reviewer Service

Journal Reviewer: Canadian Journal of Forest Research, European Journal of Forest Research, Forest Ecology and Management, Forest Science, Forestry Chronicle, Journal of Forestry, Journal of the Torrey Botanical Society, New Forests, Northern Journal of Applied Forestry, Southern Journal of Applied Forestry

Guest Associate Editor, Forest Science, 2014-2017

Guest Associate Editor, Southern Journal of Applied Forestry, 2011

Co-Editor, 2010, Proceedings of the 17th Central Hardwood Forest Conference

Reviewed silviculture proposal for the McIntire-Stennis Cooperative Forestry Program at Southern Illinois University, 2009

Reviewed manuscripts for Proceedings of 16th Central Hardwood Forest Conference, 2007

Reviewed pre-proposals (18) and full-proposals (4) for the Southern Forest Research Partnership (SFRP) grant program, 2007

Reviewed proposals (11) for University of Kentucky, Precision Resource Management grant program, 2007

Professional Leadership and Service

Society of American Foresters (SAF) national Committee on Accreditation

Committee Chair: January 1, 2018 to present

Member: January 1, 2015 to present

Society of American Foresters (SAF) Eastern Kentucky Chapter, Chair Elect (2016), Chair (2017)

Affiliate Faculty Appointments

Affiliate Associate Professor, School of Forestry and Wildlife Sciences, Auburn University, Auburn, AL, November 2010 to present

Conference Planning

Member of organizing committee for Bioenergy Symposium associated with 2011 Kentucky Agricultural Summit. Conference held in Louisville, KY on November 17, 2011

Coordinator of meeting titled “Opportunities and Challenges of Woody Biomass for Meeting Kentucky’s Bioenergy Needs”. Event held in Lexington, KY on February 24, 2011

Co-Chair of the 17th Central Hardwood Forest Conference committee. Conference held in Lexington, KY on April 5 to 7, 2010

Professional Affiliations

Society of American Foresters (SAF)

Working Group D2 (Silviculture)

Silviculture Instructors Subgroup of Working Group D2

Media Highlights

USDA Forest Service People, Places, and Things May 3, 2013 newsletter highlighted UK forestry students’ visit to Coweeta Hydrologic Laboratory and Nantahala and Chattahoochee-Oconee National Forests as part of J.M. Lhotka’s Silvicultural Practices (FOR 358) field course

Pontiac Daily Leader, “Condition of Woods Studied”, July 26, 2012 by Luke Smucker, <http://www.pontiacdailyleader.com/article/20120726/NEWS/307269945>

University of Kentucky Cooperative Extension Service's "Growing Kentucky" TV program, HP Technology Grant, April 2009

Awards and Honors

A Teacher Who Made a Difference, University of Kentucky College of Education, April 26, 2014

Outstanding Young Alumnus Award, Southern Illinois University, Department of Forestry, 2007

The James Floyd Goggans Graduate Fellowship, For Excellence in Forest Biology Study and Research, 2005

USDA Certificate of Merit, Outstanding Contributions to National Fire Plan Studies, 2001

Outstanding Graduate Student Paper, 11th Biennial Southern Silviculture Research Conference, 2001

Dean's Certificate of Distinction, Southern Illinois University, College of Agriculture, 1997

Dean's List, Southern Illinois University, 1995-1996, 1996-1997, 1997-1998, 1998-1999 academic years

University Committee Service

Member: University of Kentucky, College of Agriculture, Food, and Environment, Undergraduate Curriculum Committee, August 2016 to present

Member, University of Kentucky, College of Agriculture, Food, and Environment, Faculty Council, May 2015 to August 2017

Chair: University of Kentucky, Department of Forestry, Undergraduate Program Committee, August 2016 to Present (*Member:* August 2010 to Present)

Member: University of Kentucky, Department of Forestry, Research Committee, August 2010 to Present (*Co-Chair* August 2014 to August 2016)

Chair: University of Kentucky, Department of Forestry, Tree Physiology faculty search committee, April 2017 to present

Chair: University of Kentucky, Department of Forestry, Forest Economics and Policy faculty search committee, December 2015 to June 2016

Chair: University of Kentucky, Department of Forestry, Forest Landscape Ecology faculty search committee, December 2013 to May 2014

Member: University of Kentucky, Department of Forestry, Graduate Program Committee, August 2007 to July 2009, August 2011 to July 2013, August 2015 to July 2017

Chair: University of Kentucky, Department of Forestry, Seminar Committee, August 2011 to December 2014

Member: University of Kentucky, College of Agriculture, Precision Resource Management Committee, April 2009 to February 2010

Other Service Activities

Forester and Naturalist badge educational programs for Cub Scout group, October 6 and 22, 2015, Lexington, KY

Lexington-Fayette Urban County Government Reforest the Bluegrass program
 Coordinator to recruit and train UK student volunteers, 2009, 2010, 2011
 Volunteer tree planting crew leader, April 2009, 2011

Faculty Marshal, Spring 2011 University of Kentucky graduation ceremony

PROFESSIONAL DEVELOPMENT

Professional Meetings Attended (41)

Society of American Foresters National Convention. Albuquerque, NM, November 16-18, 2017

Oak Symposium: Sustaining Oak Forests in the 21st Century through Science-based Management. October 24-26, 2017, Knoxville, TN

2017 UTIA and UK Grant Writers Workshop. March 16-17, 2017, Knoxville, TN

Society of American Foresters National Convention. Madison, WI, November 2 to 5, 2016

10th IUFRO International Workshop on Uneven-aged Silviculture. Little Rock, AR, May 31 to June 2, 2016

10th Biennial Conference on University Education in Natural Resources. March 13-15, 2014. Auburn, AL

Society of American Foresters National Convention. October 24-25, 2013. Charleston, SC

Society of American Foresters Silviculture Instructors Field Tour "Silviculture Matters: Silviculture from the Appalachian Mountains to the Atlantic Coastal Plain". October 19-23, 2013

9th North American Forest Ecology Workshop. June 17-20, 2013. Bloomington, IN

Central Appalachian Early-Career Scientist Retreat. May 1-3, 2013. University of Kentucky Robinson Forest, Clayhole, KY

Society of American National Convention. October 24-27, 2012. Spokane, WA

Society of American Foresters Silviculture Instructors Field Tour of Western Montana and Northern Idaho. October 20-24, 2012

Kentucky-Tennessee Chapter of the Society of American Foresters Winter Meeting. January 25-27, 2012. Lexington, KY

2011 Missouri Bioenergy Tour, co-sponsored by Kentucky Governor's Office of Agricultural Policy and Energy and Environment Cabinet. May 3-5, 2011

16th Biennial Southern Silviculture Research Conference. February 14-17, 2011. Charleston, SC

Society of American Foresters National Convention. October 28, 2010. Albuquerque, NM

Society of American Foresters Silviculture Instructors Field Tour of Northern New Mexico. October 24-27, 2010. Albuquerque, NM

Association of Consulting Foresters of America, Inc. National Conference. June 28-29, 2010. Louisville, KY

17th Central Hardwood Forest Conference. April 5-7, 2010. Lexington, KY

Invasive Species Conference. December 12-14, 2008. Lexington, KY

15th Biennial Southern Silviculture Research Conference. November 17-20, 2008. Hot Springs, AR

Society of American Foresters National Convention. November 6, 2008. Reno, NV

Society of American Foresters Silviculture Instructors Field Tour of the Sierra Nevada Mountains and Tahoe Basin. November 3-5, 2008. Reno, NV

16th Central Hardwood Forest Conference. April 8-9, 2008. Lafayette, IN

Society of American Foresters National Convention. October 24-26, 2007. Portland, OR

Society of American Foresters Silviculture Instructors Field Tour of Western Oregon and Washington. October 21-23, 2007

Scientific Foundations of Conservation Planning in the Cumberland Plateau and Mountains. November 13-14, 2007. Knoxville, TN

USDA/CSREES Grantsmanship Workshop. October 9-10, 2007. Washington, DC

Southern Hardwood Forestry Group field tour and meeting. April 2007. Selma, AL

Forest Inventory and Analysis data training workshop. March 1, 2007. Athens, GA

14th Biennial Southern Silviculture Research Conference. February 26-March 1, 2007. Athens, GA

IFURO Natural Disturbance-Based Silviculture: Managing for Complexity conference. May 14-18, 2006, Rouyn-Noranda, Québec

Emerging Issues along Urban/Rural Interfaces: Linking Science and Society conference. March 13-16, 2005, Atlanta, GA

13th Biennial Southern Silviculture Research Conference. February 28 - March 4, 2005. Memphis, TN

Upland Oak Ecology Symposium: History, Current Conditions, and Sustainability. October 7-10, 2002, Fayetteville, AR

13th Central Hardwoods Forest Conference. April 1-3, 2002. Champaign, IL

11th Biennial Southern Silviculture Research Conference. March 19-22, 2001. Knoxville, TN

62nd Association of Southeastern Biologist Annual Meeting. April 4-7, 2001. New Orleans, LA

61st Association of Southeastern Biologist Annual Meeting. April 5-7, 2000. Chattanooga, TN

60th Association of Southeastern Biologist Annual Meeting. April 14-16, 1999. Wilmington, NC

Society of American Foresters National Convention. September 11-15, 1999. Portland, OR