

CURRICULUM VITAE

JOHN M. LHOTKA

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University of Kentucky
Department of Forestry
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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

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

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

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 (\$196,891)

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. 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

Bradford, M.A. and K.R. Covey. 2013 to present. Yale University eastern forest methane assessment project.

J.M. Lhotka is a collaborating investigator managing the Kentucky field site in a forest methane assessment network that includes 24 research locations across the eastern US

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 is 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 (\$7,887)

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

Extramural Submitted and Under Evaluation by Sponsor

Stringer, J.W., **J.M. Lhotka**, M. Contreras, G.A. Stainback, R. Smith, and T. Mueller. 2013. Toyota sustainable biomass initiative. Toyota Motor Engineering & Manufacturing North America, Inc., K.M. Butt, Chief Environmental Officer. \$840,216

Extramural Submitted Not Funded

Price, S.J. and **J.M. Lhotka**. 2013. Integrated studies of disturbance in an Appalachian forest ecosystem, the University of Kentucky's Robinson Forest. National Science Foundation, Research Experiences for Undergraduates (NSF 13-542). \$350,721

Price, S.J. and **J.M. Lhotka**. 2012. REU site: Forest ecology and natural resource management in Appalachia. National Science Foundation, Research Experiences for Undergraduates (NSF 12-569). \$337,112

Lhotka, J.M., C.D. Barton, and L. Liang. 2012. Subward for Purdue University (S. Fei, Project Director) Coordinated Agricultural Project (CAP) titled “Optimizing climate change mitigation and adaptation in central hardwood forests”. Regional Approaches for Adaptation to and Mitigation of Climate Variability and Change (USDA-NIFA-AFRI-003537). \$778,906 (\$205,400 to J.M. Lhotka)

Lhotka, J.M., S. Fei, G.A. Stainback, and J. Schieffer. 2011. A fuzzy logic based GIS tool for locating economically viable energy crop plantations. Sun Grant Program, Southeastern Region, 2010 Competitive Grants Program. \$90,621

Lhotka, J.M., J.W. Stringer, and T. Conners. 2010. The effect of silvicultural practices on the yield of short rotation woody plantations in north-central Kentucky. Encapital Inc., Ron Reilly, CEO. \$209,500

Lhotka, J.M., C.D. Barton, C. Agouridis, and R.C. Warner. 2009. Using short-rotation technologies to enhance woody feedstock production on reclaimed surface mines in eastern Kentucky. Kentucky Renewable Energy Consortium, 2009 Competitive Grants Program. \$73,121

Lhotka, J.M., J.W. Stringer, M.A. Arthur, and E. Seekamp. 2009. Forest harvesting for renewable bioenergy in the central hardwood region: Impacts to forest ecosystem services and social barriers to implementation. FY 2009 Agriculture and Food Research Initiative Competitive Grants Program (USDA-CSREES-AFRI-002010), Managed Ecosystems program. \$498,952

Fei, S., C.D. Barton, M.A. Arthur, J.W. Stringer, and **J.M. Lhotka**. 2009. Spatial and temporal dynamics of invasive plants and their impact on ecosystem services in Robinson Forest following forest management. FY 2009 Agriculture and Food Research Initiative Competitive Grants Program (USDA-CSREES-AFRI-002010), Biology of Weedy and Invasive Species in Agroecosystems program. \$499,858

Lhotka, J.M., C.D. Barton, and J.W. Stringer. 2009. Effect of grading technique and forest thinning on productivity of high-value tree species in reforested surface mine lands. U.S. Department of Interior, 2009 National Technology Transfer Team Applied Science Program (DOI-SM-255-09). \$167,402

Stringer, J.W. and **J.M. Lhotka**. 2009. Hardwood Forestry Fund grant program. \$26,000

Lhotka, J.M., C.D. Barton, R.C. Warner, C.T. Agouridis, T.L. Cushing, S. Fei, M.D. Coleman. 2007. Techniques for enhancing productivity of woody feedstock plantations on reclaimed surface mines. USDA/DOE Biomass Research and Development Initiative (RD-RBP-Biomass-2007). \$732,590

Intramural Submitted Not Funded

Lhotka, J.M. 2010. Regenerating oak dominated forests using gap-based silvicultural systems. USDA-CSREES Precision Resource Management Phase VI Special Grant. \$49,858

Lhotka, J.M., M.A. Arthur, and R.L. Sherriff. 2008. Impact of forest harvesting on the invasion of non-native plant species. USDA-CSREES Precision Resource Management Phase IV Special Grant. \$74,716

Pre-proposals Submitted Not Invited

Lhotka, J.M., C.D. Barton, M.A. Contreras, G.A. Stainback, J.W. Stringer, and R.B. Rummer. 2012. Developing a sustainable woody bioenergy system for Appalachian coal basins. Biomass Research and Development Initiative (DE-FOA-0000657)

Lhotka, J.M., C.D. Barton, G. Halich, D. van der Lelie, and R.J. Rousseau. 2009. Enhancing woody feedstock production on reclaimed surface mines through application of short-rotation technologies, FY 2009 USDA/DOE Biomass Research and Development Initiative (DE-PS36-09GO99016)

Letter of Intent Submitted Not Invited

Stainback, G.A., J. Schieffer, **J.M. Lhotka**, and M. Contreras. A policy, economic, and spatial analysis of bioenergy feedstock production in northern Kentucky. FY 2012 Agriculture and Food Research Initiative Competitive Grants Program (USDA-NIFA-AFRI-A6122), Sustainable Bioenergy program

Lhotka, J.M., M.A. Arthur, and B.D. Lee. 2008. Impact of forest harvesting on the invasion of non-native weedy species. National Research Initiative Program (USDA-CSREES-NRI-001030), Biology of Weedy and Invasive Species in Agroecosystems program

Graduate Student Advising and Committee Service

Completed Graduate Students (5)

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: Laboratory Technician Senior, University of Kentucky

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 (2)

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

Clint Patterson, M.S. Forestry, co-Major Advisor with J.W. Stringer

Graduate Committee Service (12)

Nine 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, 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 (22)

Craig, J.M., **J.M. Lhotka**†, and J.W. Stringer. In Press. Evaluating initial responses of natural and underplanted oak reproduction and a shade tolerant competitor to midstory removal. *Forest Science* (Accepted: December 20, 2013). (*JIF*: 1.093)

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. Lowenstein. 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*: 2.766)

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*: 2.766)

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*: 2.766)

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)

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 2013	23	-	-
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)

*Scale 0 to 4

FOR 358 - Silvicultural Practices (3 credits)

Semester	Enrollment	Course Evaluation* (College Mean)	Teaching Evaluation* (College Mean)
Spring 2014	18	-	-
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 4

FOR 480 - Integrated Resource Management (5 credits). Co-taught (50% responsibility) with T.L. Cushing (2008) and J.M. Ringe (2009 to 2014)

Semester	Enrollment	Course Evaluation* (College Mean)	Teaching Evaluation* (College Mean)
Spring 2014	19	-	-
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 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

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 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 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

Student Advising

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 (8)

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 (19)

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 (11)

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 (5)

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, 2011, Southern Journal of Applied Forestry

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

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

Southern Hardwood Forestry Group

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

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

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

Member: University of Kentucky, Department of Forestry, Research Committee, August 2010 to Present

Member: University of Kentucky, Department of Forestry, Undergraduate Program Committee, August 2010 to Present

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

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

Other Service Activities

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 (35)

Society of American 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