

Curriculum Vitae

Amy Fulcher

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EDUCATION

University of Kentucky, Lexington, KY

Ph.D. Crop Science, May 2010

Dissertation: Modeling Water Use in Nursery Crops

Advisor: Robert L. Geneve

North Carolina State University, Raleigh, NC

M.S. Horticultural Science, May 1997

Thesis: Host Plant Resistance Among *Malus* Taxa to Japanese Beetle, European Red Mite, and Two-Spotted Spider Mite

Advisor: Thomas G. Ranney

Western Kentucky University, Bowling Green, KY

B.S. Agriculture, December 1994

Emphasis: Horticulture

Minor: Business Administration

Graduated Summa Cum Laude

PROFESSIONAL EXPERIENCE

Assistant Professor

**Sustainable Nursery Production and Landscape Management – University of Tennessee,
Department of Plant Sciences**

Knoxville, TN

November 2010 to present

Extension Associate for Nursery Crops - University of Kentucky, Department of Horticulture

Princeton, KY and Lexington, KY

April 2002 to October 2010

Hopkins County Extension Agent for Horticulture - University of Kentucky

Madisonville, KY

January 1997 to March 2002

GRANTSMANSHIP

Nationally Competitive

Zhu, H., **A. Fulcher**, G. Gao, K. Giles, D. Herms, C. Krause, P. Ling, D. Lockwood, G. Niu, E. Ozkan,

R. Rosetta, G. Schnabel, A. Shah, L. Zhao and R. Zondag. 2015. Advancement of Pesticide Spray Applications in Specialty Crop Production with Intelligent-Decision Technologies. USDA Specialty Crop Research Initiative. Requested \$3,991,828.

Clark, C., F. Walker, T. Papanicolaou, L. Lambert, D. Lambert, Hawkins, C. Boyer, and **A. Fulcher**. 2014-2017. Using Hydro-Economic Modeling to Optimally Allocate Water in the Humid Southeastern U.S. USDA NIFA. National Integrated Water Quality Program. Requested \$659,926.

Fulcher, A. and W. Klingeman. 2013. Understanding the Impact of Systemic and Contact Insecticides on Beneficial Insect Populations: Possible Implications for Scale Problems during Nursery Production. Center for Applied Nursery Research. Requested \$2,400, awarded \$2,000.

Fulcher, A. and W. Klingeman. 2011. Evaluation of the Effect of Systemic and Contact Insecticides on Natural Enemy Populations in a Woody Plant Production System: Implications for Enhanced Conservation Biological Control. Center for Applied Nursery Research. Requested \$2,000.

Stewart, R., G. Bi, R. Brumfield, M. Evans, T. Fernandez, **A. Fulcher**, R. Geneve, D. Kovacic, D. Lindsey, G. Niu, R. Schnelle, and S. Verlinden. 2010-2014. Impact and Social Acceptance of Selected Sustainable Practices in Ornamental Crop Production Systems. USDA Specialty Crops Research Initiative. Requested and awarded \$1,548,793.
<http://www.reeis.usda.gov/web/crisprojectpages/222423.html>

Johnson, D. (Co-PI & PD), P. Lucas, T. Coolong, R. Durham, **A. Fulcher**, C. Lee and L. Murdock. 2010-2013. IPM in Kentucky: Integrated Development and Delivery. USDA-NIFA. Awarded \$280,934. <http://www.reeis.usda.gov/web/crisprojectpages/223338.html>

Zhu, H., H. Ozkan, R. Derksen, M. Reding, C. Ranger, L. Cañas, J. Locke, C. Krause, S. Ernst, R. Zondag, **A. Fulcher**, and R. Rosetta. 2009-2014. Intelligent Spray Systems for Floral and Ornamental Nursery Crops. USDA Specialty Crops Research Initiative. Requested and awarded \$1,826,298.
<http://www.reeis.usda.gov/web/crisprojectpages/219988.html>

Johnson, D., P. Lucas, T. Coolong, **A. Fulcher**, C. Lee, G. Schwab, and L. Murdock. 2009-2010. An Integrated Pest Management Program for Kentucky. USDA CSREES. Requested \$195,799, awarded \$108,169.

Regionally Competitive

Chappell, M.R., S.K. Braman, J.-H. Chong, J. Derr, W. Dunwell, **A. Fulcher**, F. Hale, F. Hand, W. Klingeman, G. Knox, A. LeBude, C. Marble, J. Neal, N. Ward, S.A. White, J. Williams-

Woodward, and A. Windham. 2015-2016. IPM for Shrubs in Southeastern U.S. Nursery Production. USDA-NIFA, Southern Region IPM Center. Awarded \$39,532.

Fulcher, A. 2015. Interregional Research Project No. 4 (IR-4). Tennessee Liaison. \$2,500.

Fulcher, A. 2014. Interregional Research Project No. 4 (IR-4). Tennessee Liaison. \$3,000.

Fulcher, A., D. Cochran^M, and B. Leib. 2014. Mitigating Risk from Changing Irrigation Water Resources and Regulations. Southern Risk Management Education Center. \$36,118.

LeBude, A., K. Braman, N.W. Gauthier, J. Neal, M. Chappell, **A. Fulcher**, W. Klingeman III, J. Derr, G. Knox, C. Adkins, J.-H. Chong, W. Dunwell, S. Frank, F. Hale, S.A. White, J. Williams-Woodward, and A. Windham. 2014-2015. Experiential Nursery IPM Workshop Series to Enhance Grower Adoption and Extension Agent Facilitation. IPM Working Group and Capstone. \$39,982.

Fulcher, A. 2013. Interregional Research Project No. 4 (IR-4). Tennessee Liaison. \$3,000.

Cochran, D.^M, **A. Fulcher**, F. Hale, and A. Windham. 2012. Mitigating Risk with Systems-based Pest Management for Tennessee Nursery Owners, Producers, and Hispanic Work Force. Southern Risk Management Education Center.

White, S.A., **A. Fulcher**, J.-H. Chong, A. LeBude, C. Adkins, K. Braman, M. Chappell, J. Derr, W. Dunwell, S. Frank, F. Hale, W. Klingeman, G. Knox, J. Neal, N. Ward, A. Windham, and J. Williams-Woodward. 2013. IPM for Shrubs in Southeastern U.S. Nursery Production (Vol. I), a SNIPM Working Group Effort. Southern Region IPM Center, IPM Enhancement Program. Requested and awarded \$29,983.

Fulcher, A. 2012. Interregional Research Project No. 4 (IR-4). Tennessee Liaison. \$2,000.

Fulcher, A. 2012. Effect of Early Production Application of Plant Growth Regulators and Mechanical Techniques on Branch Architecture and Plant Quality of 'Limelight' Hydrangea. Interregional Research Project No. 4 (IR-4). \$6,000.

Fulcher, A. 2011 (partial year). Interregional Research Project No. 4 (IR-4). Tennessee Liaison. \$1,000.

Fulcher, A. 2011. Evaluation of PGR Materials for the Improvement of Hydrangea Branching Patterns. Interregional Research Project No. 4 (IR-4). \$8,000.

Fulcher, A., J. Chong, S. White, A. LeBude, W. Klingeman, M. Chappell, C. Adkins, K. Ivors, J. Neal, F. Hale, A. Windham, J. Williams-Woodward, K. Braman, and W. Dunwell. 2011.

Enhancing Nursery Crop Research and Extension with a Multi-State Working Group. IPM Enhancement Grant. Southern Region IPM Center. Requested and awarded \$24,232.

Fulcher, A. 2010. Efficacy of PGRs and Influence of Propagation Method on Branch Architecture of Container-Grown Shrubs. Interregional Research Project No. 4 (IR-4). \$4,200.

Fulcher, A., A. LeBude, J. Williams-Woodward, S. White, S. Frank, F. Hale, M. Chappell, W. Dunwell, C. Adkins, K. Ivors, K. Braman, A. Windham, and J. Chong. 2009. Multi-State Crop Profile and Pest Management Strategic Plan for Nursery Crops. IPM Enhancement Grant. Southern Region IPM Center. Requested and awarded \$18,744.

Fulcher, A. and B. Vaneva. 2008. Efficacy of PGRs on Branch Architecture of Container-Grown Shrubs. Interregional Research Project No. 4 (IR-4).

Fulcher, A. 2007. Efficacy of PGRs on Branch Architecture of Container-Grown Trees and Shrubs. Interregional Research Project No. 4 (IR-4). \$3,000.

State Competitive

Walker, F. and **A. Fulcher.** 2015-2017. Robinson Creek Restoration Project, Franklin County, Tennessee. Tennessee Department of Environment and Conservation. Awarded \$55,176.

Fulcher, A., D. Fare, M. Halcomb, F. Hale, C. Kimbro, J. Oliver, and A. Windham. 2012. Tennessee Master Nursery Program. Tennessee Department of Agriculture, Specialty Crop Block Grant. Awarded \$47,732.

Tree Board, City of Madisonville. 2000. North 41 Urban Curb and Gutter Project. Kentucky Division of Forestry Urban and Community Forestry Grant. Awarded \$7,875.

Internally Competitive

Fulcher, A. 2014. UTIA AgResearch Travel Grant. Awarded \$1,500. (D. Cochran)

Fulcher, A. 2013. UTIA AgResearch Travel Grant. Awarded \$1,500. (D. Cochran)

Fulcher, A. 2012. UTIA AgResearch Travel Grant. Awarded \$1,500. (E. Hagen)

Fulcher, A. and R. Schnelle. 2009. Use of the Whole-Tree, Mixed-Species Product, Forest Floor, as a Container Substrate for Herbaceous and Woody Crops. UK Department of Horticulture Nursery Landscape Mini-grant. Awarded \$3,500.

Fulcher, A. 2008. Influencing Branch Architecture of Container-Grown Trees and Shrubs. UK Department of Horticulture Nursery Landscape Mini-grant. Awarded \$2,500.

- Fulcher, A.** and R. Geneve. 2007. Effect of Conventional and Biorational Fungicides on *Rhizoctonia solani* in a Container Nursery Production System. UK Department of Horticulture Nursery Landscape Mini-grant. Awarded \$2,500.
- Fulcher, A.** 2007. Efficacy of PGRs on Branch Architecture of Container-Grown Trees and Shrubs. UK Department of Horticulture Nursery Landscape Mini-grant. Awarded \$2,500.
- Geneve, R., J. Buxton, **A. Fulcher**, and J. Norikane. 2006. Optimizing Pot-in-Pot Nursery Production for Kentucky Growers. New Crop Opportunities Center. Awarded \$45,913.
- Geneve, R., **A. Fulcher**, and J. Norikane. 2005. Development of a Novel Production System to Enhance the Survival and Growth of Flowering Dogwood, *Cornus florida*, a High Value Crop with Potential for Kentucky Producers. New Crop Opportunities Center. Awarded \$25,000.
- Fulcher, A.** and R. Geneve. 2005. Characterization of the Impact of Water Deficit on Two Dogwood Species and Their Hybrid as it Relates to the Development of a Use-Based, Sap Flow-Regulated Irrigation System for Pot-in-Pot Production. UK Department of Horticulture Nursery Landscape Mini-grant. Awarded \$3,000.
- Potter, D., B. Miller, **A. Fulcher**, D. Hayden, R. McNeil, K. Haynes, J. Hartman, and C. Redmond. 2005. Sustainable Management of Insect Pests and Diseases of Nursery Grown Maples in Kentucky. New Crop Opportunities Center. Awarded \$75,000.
- Fulcher, A.** and R. Geneve. 2004. Evaluation of Particle Film Technology as a Mechanism for Stress Reduction and Growth Enhancement of *Cornus florida* in High Light Nursery Production and Landscape Settings. U.K. Horticulture Department Nursery Landscape Mini-grant. Awarded \$2,500.
- Fulcher, A.**, W. Dunwell, R. McNeil, and D. Hayden. 2004-2008. IPM Nursery Crops Workshop Series. Kentucky Integrated Pest Management. Awarded \$48,083.
- Fulcher, A.** and J. Hartman. 2003. Evaluation of Black Knot Resistance among *Prunus* Taxa. UK Department of Horticulture Nursery Landscape Mini-grant. Awarded \$1,000.
- Fulcher, A.**, W. Dunwell, and R. McNeil. 2003. IPM for Nursery Production: Practical Techniques for Nursery Producers. Kentucky Integrated Pest Management. Awarded \$7,740.
- Fulcher, A.**, W. Dunwell, and R. McNeil. 2002. IPM for Nursery Production Workshop Series. Kentucky Integrated Pest Management. Awarded \$4,525.

U.K. Nursery and Landscape Program Group. 2002. Best Management Practices Workshop IV. Barnhart Fund for Excellence. Awarded \$1,000.

Fulcher, A. and R. Bessin. 2000. Seeds of Hope, Harvest of Pride Community Garden. Kentucky Integrated Pest Management. Awarded \$1,455.

Fulcher, A. and R. Durham. 1999. Seeds of Hope, Harvest of Pride Community Garden. Kentucky Integrated Pest Management. Awarded \$2,409.

Fulcher, A., G. Kelley, R. Bessin, and M. Rasnake. 1998. Hopkins County Field Day. Kentucky Integrated Pest Management. Awarded \$4,491.

Gifts

Total since joining UT Department of Plant Sciences: \$17,200.

PUBLICATIONS

Peer-Refereed Publications

(^MStudent/postdoc/research or extension associate mentored by Amy Fulcher, ^CCorresponding author)

Hagen, E.^M, **A. Fulcher**^C, and X. Sun. 2015. Determining optimum sensor orientation and depth within an 11.4 L container to estimate whole container volumetric water content. *Applied Engineering in Agriculture: Technical Note*. 31(4):597-603.

Fulcher, A.^C, N. Ward Gauthier, W. Klingeman, F.A. Hale and S.A. White. 2015. Blueberry culture and pest, disease, and abiotic disorder management during nursery production in the southeastern U.S.: A Review and Research Update. *Journal of Environmental Horticulture* 33(1):33-47.

Yeary, W.^M, **A. Fulcher**^C, W. Klingeman, J. Grant, and X. Sun. 2015. Responses of three natural enemy species to contact and systemic insecticide exposures in confined assays. *Journal of Entomological Science* 50(1):35-46.

Nambuthiri, S., R.L. Geneve, Y. Sun, X. Wang, R.T. Fernandez, G. Niu, G. Bi, and **A. Fulcher**. 2015. Substrate temperature in plastic and alternative nursery containers. *HortTechnology* 25(1):50-56. Special Issue: Alternative Containers.

Wang, X., R.T. Fernandez, B.M. Cregg, R. Auras, **A. Fulcher**, D.R. Cochran^M, G. Niu, Y. Sun, G. Bi, S. Nambuthiri, and R.L. Geneve. 2015. Multi-state evaluation of plant growth and water use in plastic and alternative nursery containers. *HortTechnology* 25(1):42-49. Special

Issue: Alternative Containers.

- Brumfield, R., A.J. DeVincentis, X. Wang, R.T. Fernandez, S. Nambuthiri, R.L. Geneve, A.K. Koeser, G. Bi, T. Li, Y. Sun, G. Niu, D. Cochran^M, and **A. Fulcher**. 2015. Economics of utilizing biodegradable containers in ornamental crop production systems. *HortTechnology* 25(1):17-25. Special Issue: Alternative Containers.
- Nambuthiri, S., **A. Fulcher**^C, A. Koeser, R. Geneve, and G. Niu. 2015. Moving towards sustainability with alternative containers for greenhouse and nursery crop production: A review and research update. *HortTechnology* 25(1):8-15. Special Issue: Alternative Containers.
- Fulcher, A.**^C, D.R. Cochran^M, and A.K. Koeser. 2015. An introduction to the impact of utilizing alternative containers in ornamental crop production systems. *HortTechnology* 25(1):6-7. Special Issue: Alternative Containers.
- Cochran^M, D., M. Benitez^M, and **A. Fulcher**^C. 2014. Effect of branch-inducing treatments on growth of tissue culture and cutting-propagated *Hydrangea quercifolia* 'Alice'. *Journal of Environmental Horticulture* 32(4):182-188.
- Hagen, E.^M, S. Nambuthiri, **A. Fulcher**^C, and R. Geneve. 2014. Growth and water consumption of *Hydrangea quercifolia* irrigated by on demand and daily water use irrigation regimes. *Scientia Horticulturae* 179:132-139.
- Klingeman, W.E., S.A. White, A. LeBude, **A. Fulcher**, N. Ward Gauthier, and F. Hale. 2014. Arthropod pests, plant diseases and abiotic disorders and their management on *Viburnum* species in the southeastern U.S.: A Review. *Journal of Environmental Horticulture* 32(2):84-102.
- Cochran, D.^M, **A. Fulcher**^C, and G. Bi. 2013. Efficacy of dikegulac sodium applied to pruned and unpruned 'Limelight' hardy hydrangea grown at two locations in the southeastern U.S. *HortTechnology* 23(6):836-842.
- Fulcher, A.**^C, S.A. White, J.-H. (JC) Chong, J.C. Neal, J.L. Williams-Woodward, C.R. Adkins, S.K. Braman, M.R. Chappell, J.F. Derr, W.C. Dunwell, S.D. Frank, S.A. Gill, F.A. Hale, W.E. Klingeman, A.V. LeBude, K. Rane, and A.S. Windham. 2013. Testing, promoting, and launching a mobile application as an extension tool: A case study with *IPMPro*. *HortTechnology*. 23(4):407-410.
- Fulcher, A.**^C, J.-H. (JC) Chong, S.A. White, J.C. Neal, J.L. Williams-Woodward, C.R. Adkins, S. K. Braman, M.R. Chappell, J.F. Derr, W.C. Dunwell, S.D. Frank, S.A. Gill, F.A. Hale, W.E. Klingeman, A.V. LeBude, K. Rane, and A.S. Windham. 2013. Developing a mobile

- application as an extension education tool: A case study using IPMPro. HortTechnology. 23(4):402-406.
- Cochran, D.^M and **A. Fulcher**^C. 2013. Type and rate of plant growth regulator influence vegetative, floral growth, and quality of Little Lime™ hydrangea. HortTechnology. 23(3):1-6.
Article invited by editor for "Spotlight" submission.
- Frank, S.D., W.E. Klingeman, S.A. White, and **A. Fulcher**. 2013. Biology, injury, and management of maple tree pests in nurseries and urban landscapes. Journal of Integrated Pest Management. 4(1):1-14.
- Hester, K.A., G. Bi, M.A. Czarnota, **A. Fulcher**, G.J. Keever, J.H. Leith, J.D. Orsi, B.E. Whipker, K. Sullivan, and C.L. Palmer. 2013. Impact of Augeo, Configure, and Florel on hydrangea branching. Journal of Environmental Horticulture. 31(1):27-29.
- Lin, W., E. Hagen^M, **A. Fulcher**, M. Hren, and Z.-M. Cheng. 2012. Overexpressing the *ZmDof1* gene in *Populus* does not improve growth and nitrogen assimilation under low-nitrogen conditions. Plant Cell, Tissue, and Organ Culture. DOI 10.1007/s11240-012-0250-6.
- Knox, G.W., W.E. Klingeman, M. Paret, and **A. Fulcher**. 2012. Management of pests, plant diseases and abiotic disorders of *Magnolia* species in the southeastern United States: A review. Journal of Environmental Horticulture. 30(4):223-234.
- LeBude, A., S. White, **A. Fulcher**, S. Frank, W. Klingeman, J.-H. Chong, M. Chappell, A. Windham, K. Braman, F. Hale, W. Dunwell, J. Williams-Woodward, K. Ivors, C. Adkins, and J. Neal. 2012. Assessing the Integrated Pest Management Practices of Southeastern U.S. Ornamental Nursery Operations. Pest Management Science. 68:1278–1288. DOI 10.1002/ps.3295.
- Fulcher, A.**, W.E. Klingeman, J.-H. Chong, A. LeBude, G.R. Armel, M. Chappell, S. Frank, F. Hale, J. Neal, S. White, J. Williams-Woodward, K. Ivors, C. Adkins, A. Senesac, and A. Windham. 2012. Stakeholder vision of future direction and strategies for southeastern U.S. nursery pest research and Extension programming. Journal of Integrated Pest Management. 3(2):D1-D8(8).
- Fulcher, A.**^C, J. Buxton, and R. Geneve. 2012. Developing a physiological-based, on-demand irrigation system for container production. Scientia Horticulturae. 138:221-226.
- Fulcher, A.**, T. Ranney, J. Burton, J. Walgenbach, and D. Danehower. 1997. Host Plant Resistance Among *Malus* Taxa to Adult Japanese Beetle. HortScience. 33(5):862-865.

Peer-Reviewed Publications

^MMentored by Amy Fulcher.

Fulcher, A. 2012. Integrated pest management-based nursery crop production. *Acta Horticulturae*. 937:59-61.

Fulcher, A. and R. Geneve. 2011. Relationship between photosynthesis and substrate moisture for container-grown *Hibiscus* and *Cornus*. *Acta Horticulturae*. 922:183-186.

Fulcher, A., T. Steele^M, E. Wilkerson, R.L. Geneve, and R.S. Gates. 2011. Using transpiration chambers to detect initial transpiration in cuttings and quantify transpiration in seedlings. *Acta Horticulturae*. 893:1037-1042.

Publications In Press and In Review

Geneve, R., S. Nambuthiri, E. Hagen^M, and **A. Fulcher**. 20XX. Irrigation application efficiency calculation of sprinkler irrigated container plants grown under sensor based irrigation scheduling. *Acta Horticulturae*. (Peer Reviewed). In press.

Fernandez, R.T., X. Wang, A. Ingraio, G. Bi, **A. Fulcher**, R. Geneve, G. Niu, Y. Sun, S. Verlinden, B. Cregg, M. Ngouajio, R. Auras, S. Nambuthiri, and R. Conneway. 20XX. Water use and performance of plants grown in alternative nursery containers. *Acta Horticulturae*. (Peer Reviewed). In press.

Books and Manuals, Edited or Written and Edited

Cochran, D.^M, **A. Fulcher**, F. Hale, and A. Windham. 2014. D. Cochran^M, ed. *Metodo Basado en Sistemas para el Control de Plagas: Una Guia Rapida de Referencia*. University of Tennessee. 47pp.

Cochran, D.^M, **A. Fulcher**, F. Hale, and A. Windham. 2014. D. Cochran^M, ed. *Systems-based Approach to Pest Management: A Quick Reference Guide*. University of Tennessee. 47pp.

UT-UK IPM for Shrub Production Manual. 2013. **A. Fulcher**, ed. University of Tennessee. 80pp. <http://plantsciences.utk.edu/tnsustainablenurserycrops.htm>

IPM for Select Deciduous Trees in Southeastern US Nursery Production. 2012. **A. Fulcher** and S.A. White, eds. Southern Nursery IPM Working Group, Knoxville, TN. 324pp.

Books and Manuals, Chapters Written

Mattson, N.S. and **A. Fulcher**. 2014. pp. 127-144. Substrates and containers for seed and cutting propagation and transplanting. In: Beyl, C.A. and R.N. Trigiano, eds. *Plant Propagation Concepts and Exercises*, CRC Press, Boca Raton, FL.

Nambuthiri, S., **A. Fulcher**, and R. Geneve. 2014. pp. 295-309. Micro-irrigation systems for pot-in-pot ornamental nursery production: Concepts and a case study. In: Goyal, M. (Ed.), *Micro-irrigation Management in Trees and Vines*. Apple Academic Press. Waretown, NJ.

Klingeman, W., S.A. White, A.V. LeBude, N. Ward Gauthier, F.A. Hale, and **A. Fulcher**. 2014. pp. 121-160. *Viburnum* - *Viburnum* spp. IPM for Shrubs in Southeastern U.S. Nursery Production: Volume I. White, S.A. and W.E. Klingeman, eds. Southern Nursery IPM working group, Clemson, SC.

Fulcher, A., N. Ward Gauthier, W. Klingeman, and F.A. Hale. 2014. pp. 95-120. Blueberry - *Vaccinium* spp. IPM for Shrubs in Southeastern U.S. Nursery Production: Volume I. White, S.A. and W.E. Klingeman, eds. Southern Nursery IPM working group, Clemson, SC.

Halcomb, M. and **A. Fulcher**. 2013. Field production of deciduous flowering shrubs. UT-UK IPM for Shrub Production Manual. University of Tennessee. 16pp.
http://plantsciences.utk.edu/pdf/fulcher_IPM_%20shrub_online_version_deciduous_shrubs.pdf

Halcomb, M., S. Reed, and **A. Fulcher**. 2013. Hydrangeas. UT-UK IPM for Shrub Production Manual. University of Tennessee. 31pp.
http://plantsciences.utk.edu/pdf/fulcher_IPM_shrub_online_version_hydrangeas.pdf

Halcomb, M. and **A. Fulcher**. 2013. Foster and similar hollies. UT-UK IPM for Shrub Production Manual. University of Tennessee. 13pp.
http://plantsciences.utk.edu/pdf/fulcher_IPM_shrub_online_version_foster_hollies.pdf

Halcomb, M. and **A. Fulcher**. 2013. Yews. UT-UK IPM for Shrub Production Manual. University of Tennessee. 13pp.
http://plantsciences.utk.edu/pdf/fulcher_IPM_shrub_online_Version_yews.pdf

Adkins, C., J. Sidebottom, and **A. Fulcher**. 2012. pp. 14-28. Overview of IPM in flowering and ornamental shade trees. In: IPM for Select Deciduous Trees in Southeastern US Nursery Production. **Fulcher, A.** and S. White, eds. Southern Nursery IPM Working Group, Knoxville, TN.

Fulcher, A. and C. Adkins. 2012. pp.39-54. Field production. In: IPM for Select Deciduous Trees in Southeastern US Nursery Production. **Fulcher, A.** and S. White, eds. Southern Nursery IPM Working Group, Knoxville, TN.

Fulcher, A., F. Hale, and A. Windham. 2012. pp. 55-78. Integrated pest management of *Cornus*.

In: IPM for Select Deciduous Trees in Southeastern US Nursery Production. **Fulcher, A.** and S. White, eds. Southern Nursery IPM Working Group, Knoxville, TN.

Adkins, C., S. Frank, N. Ward, and **A. Fulcher**. 2012. pp. 137-158. Integrated pest management of *Betula*. In: IPM for Select Deciduous Trees in Southeastern US Nursery Production. **Fulcher, A.** and S. White, eds. Southern Nursery IPM Working Group, Knoxville, TN.

Knox, G., **A. Fulcher**, W. Klingeman, and M. Paret. 2012. pp. 181-210. Integrated pest management of *Magnolia*. In: IPM for Select Deciduous Trees in Southeastern US Nursery Production. **Fulcher, A.** and S. White, eds. Southern Nursery IPM Working Group, Knoxville, TN.

Frank, S., **A. Fulcher**, W. Klingeman, N. Ward, and S. White. 2012. pp. 211-258. Integrated pest management of *Acer*. In: IPM for Select Deciduous Trees in Southeastern US Nursery Production. **Fulcher, A.** and S. White, eds. Southern Nursery IPM Working Group, Knoxville, TN.

Extension Abstracts

Fulcher, A., A.V. LeBude, and S.A. White. 2015. How a new working group used synergy to fuel economic impact and increase deliverables. Proceedings of the 8th International IPM Symposium. 8:67.

White, S.A., **A. Fulcher**, A.V. LeBude, C.R. Adkins, S.K. Braman, M.R. Chappell, J.-H. Chong, J.F. Derr, W.C. Dunwell, S.D. Frank, F.A. Hale, W.E. Klingeman, G.W. Knox, M.L. Paret, J.C. Neal, N. Ward Gauthier, J.L. Williams-Woodward, and A.S. Windham. 2015. Building a working group: Colleagues, funding, and stakeholders. Proceedings of the 8th International IPM Symposium. 8:68.

Fulcher, A., S.A. White, A.V. LeBude, C.R. Adkins, S.K. Braman, M.R. Chappell, J.-H. Chong, J.F. Derr, W.C. Dunwell, S.D. Frank, F.A. Hale, W.E. Klingeman, G.W. Knox, M.L. Paret, J.C. Neal, N. Ward Gauthier, J.L. Williams-Woodward, and A.S. Windham. 2015. Multiplier effect: How a pest management strategic plan creates a foundation for productivity. Proceedings of the 8th International IPM Symposium. 8:68.

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Research Reports Submitted to Sponsors

Year	Sponsor	Report
2015	Interregional Research Project No. 4 (IR-4)	State liaison report
2015	Tennessee Department of Agriculture and Master Producer Oversight Committee	Update on Tennessee Master Nursery Producer Program
2014	Tennessee Department of Agriculture and Master Producer Oversight Committee	Update on Tennessee Master Nursery Producer Program
2014	Southern Region IPM Center	Southern Nursery IPM Working Group, oral report at annual advisory board meeting
2014	Interregional Research Project No. 4 (IR-4)	State liaison report
2013	Tennessee Department of Agriculture and Master Producer Oversight Committee	Update on Tennessee Master Nursery Producer Program
2013	Tennessee Department of Agriculture	Update on Specialty Crop Block Grant
2013	Southern Region IR-4 Meeting	Tennessee IR-4 Update
2013	Interregional Research Project No. 4 (IR-4)	State liaison report
2012	Interregional Research Project No. 4 (IR-4)	State liaison report
2012	Interregional Research Project No. 4 (IR-4)	Augeo impact on hydrangea branching
2011	Interregional Research Project No. 4 (IR-4)	Evaluation of PGR materials for the improvement of hydrangea branching patterns
2010	Interregional Research Project No. 4 (IR-4)	Effect of propagation method on efficacy of PGRs applied during production
2010	OHP, Inc.	Efficacy of Kontos™ against Japanese maple scale
2010	Interregional Research Project No. 4 (IR-4)	Effect of fertilizer rate and PGR application on Knock Out® rose during production
2008	Interregional Research Project No. 4 (IR-4)	Efficacy of PGRs on branch architecture of container-grown shrubs

2007	Interregional Research Project No. 4 (IR-4)	Efficacy of PGRs on branch architecture of container-grown trees and shrubs
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Invention Disclosures and Patents

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PRESENTATIONS

Research Presentations at International Meetings

^MMentored by Amy Fulcher. *Signifies presenter.

Fulcher, A.*, S.A. White, A.V. LeBude, C.R. Adkins, S.K. Braman, M.R. Chappell, J.-H. Chong, J.F. Derr, W.C. Dunwell, S.D. Frank, F.A. Hale, W.E. Klingeman, G.W. Knox, M.L. Paret, J.C. Neal, N. Ward Gauthier, J.L. Williams-Woodward, and A.S. Windham. 2015. Multiplier Effect: How a Pest Management Strategic Plan Creates a Foundation for Productivity. International IPM Symposium, March 23-26, 2015, Salt Lake City, UT.

Fulcher, A.*, S.A. White, A.V. LeBude, C.R. Adkins, S.K. Braman, M.R. Chappell, J.-H. Chong, J.F. Derr, W.C. Dunwell, S.D. Frank, F.A. Hale, W.E. Klingeman, G.W. Knox, M.L. Paret, J.C. Neal, N. Ward Gauthier, J.L. Williams-Woodward, and A.S. Windham. 2015. Synergistic Benefits: Increasing Working Group Deliverables and Impact. International IPM Symposium, March 23-26, 2015, Salt Lake City, UT.

Fulcher, A.*, J.-H. Chong, A.V. LeBude, S.A. White, W.E. Klingeman, C.R. Adkins, S.K. Braman, M.R. Chappell, J.F. Derr, W.C. Dunwell, S.D. Frank, F.A. Hale, Stanton Gill, J.C. Neal, Karen Rane, J.L. Williams-Woodward, and A.S. Windham. 2015. Working Group Innovation Fuels Development of Mobile Technology based Decision-making Tools. International IPM Symposium, March 23-26, 2015, Salt Lake City, UT.

Fernandez, R.T., X. Wang, A. Ingrao, G. Bi, **A. Fulcher**, R. Geneve, G. Niu, Y. Sun, S. Verlinden, B. Cregg, M. Ngouajio, R. Auras, S. Nambuthiri, and R. Conneway. 2014. Water use and performance of plants grown in alternative nursery containers. International Horticultural Congress, August 17-22, 2014, Brisbane, Australia.

Geneve, R., S. Nambuthiri, E. Hagen^M, and **A. Fulcher**. 2014. Irrigation application efficiency

calculation of sprinkler irrigated container plants grown under sensor based irrigation scheduling. International Horticultural Congress, August 17-22, 2014, Brisbane, Australia.

Fulcher, A.*, D. Cochran^M, and H. Zhu. 2013. Laser Tag: Intelligent Sprayers Change the Pest Management Game. International Plant Propagators' Society. November 2-6, 2013, Athens, GA.

Fulcher, A.* and R. Geneve. Developing a Photosynthesis-Based Irrigation System for Container-Grown Woody Plants. International Horticultural Congress, August 22-27, 2010, Lisbon, Portugal.

Fulcher, A.* Integrated Pest Management-Based Nursery Crop Production Extension Programming. International Horticultural Congress, August 22-27, 2010, Lisbon, Portugal.

Fulcher, A.*, T. Steele^M, E. Wilkerson, R.L. Geneve, and R.S. Gates. Using Transpiration Chambers to Detect Initial Transpiration in Cuttings and Quantify Transpiration in Seedlings. GreenSys, June 14-19, 2009, Quebec City, Quebec, Canada.

Senn, E.^{M*}, **A. Fulcher**, and R. Geneve. Effect of Physical Manipulation and Plant Growth Regulator Application on Branching of Oak, Linden, and Kentucky Coffeetree. International Plant Propagators' Society, September 14-17, 2008, Denver, CO, USA.

Fulcher, A.* Effect of Branch Inducing Treatments on Growth of Tissue Culture and Cutting Produced *Hydrangea quercifolia* 'Alice'. International Plant Propagators' Society, September 14-17, 2008, Denver, CO, USA.

Poston, A., **A. Fulcher**, W. Dunwell, and R. Geneve. Fascination[®] Increases Growth of 'Rudy Haag' Burning Bush during Container Production. International Plant Propagators' Society, September 14-17, 2008, Denver, CO.

Research Presentations at National Meetings

National - Invited

^MMentored by Amy Fulcher. *Signifies presenter.

Fulcher, A.* and D. Cochran. Exploring Oxygenation of Irrigation Water. Annual SCRI meeting of Integrated Management of Zoosporic Pathogens and Irrigation Water Quality for A Sustainable Green Industry, November 14, 2013, Virginia Beach, VA.

Fulcher, A.* (part of a panel of speakers) I've Earned My Degree... What's Next? Graduate Student Workshop. American Society for Horticultural Science Annual Conference, July

24, 2013, Palm Desert, CA.

Fulcher, A.* From Tractor Seat to Techie: Why Mobile Applications Are An Investment in Extension's Future. Extension/Industry Breakfast, American Society for Horticultural Science Annual Conference, July 23, 2013, Palm Desert, CA.

National

Hagen, E.^M, W. Wright, **A. Fulcher***, and X. Sun. Determining Sensor Orientation and Depth within an 11.4 L Container to Estimate Whole Container Volumetric Water Content. American Society for Horticultural Science Annual Conference, August 4-7, 2015, New Orleans, LA.

Fulcher, A.*, S.C. Marble, A. Blalock, M. Halcomb, F. Hale, C. Kimbro, J. Oliver, and A. Windham. 2015. Comparing an Asynchronous Online Extension Program and a Traditional Face-to-Face Program for Delivering Master Producer Content. American Society for Horticultural Science Annual Conference, August 4-7, 2015, New Orleans, LA.

Marble, S.C.^{M*}, **A. Fulcher**, and R. Karel. 2015. Developing an Asynchronous Online Extension Program for Tennessee Nursery Producers. American Society for Horticultural Science Annual Conference, August 4-7, 2015, New Orleans, LA.

Yeary, W.M.^M and **A.F. Fulcher***. 2014. Characterizing Spray Penetration Following Insecticide Application in Dense and Sparse Oakleaf Hydrangea 'Alice'. American Society for Horticultural Science Annual Conference, July 28-31, 2014, Orlando, FL.

Cochran, D.R.^M, **A.F. Fulcher***, and H. Zhu. 2014. Improving Spray Quality and Disease Control with a Laser-Guided Air-Assisted Sprayer for Multi-Row Nursery Production. American Society for Horticultural Science Annual Conference, July 28-31, 2014, Orlando, FL.

Yeary, W.M.^M and **A.F. Fulcher***. 2014. In Vitro Propagation, Not Plant Growth Regulators or Pruning, Increases Branch Number, Canopy Density, and Visual Plant Quality in *Clethra alnifolia* 'Hummingbird'. American Society for Horticultural Science Annual Conference, July 28-31, 2014, Orlando, FL.

Li, T., G. Bi, G. Niu, S. Nambuthiri, R. Geneve, X. Wang, R.T. Fernandez, **A. Fulcher**, and Y. Sun. Use of Biocontainers in Pot-in-Pot Nursery Production System. American Society for Horticultural Science Annual Conference, July 22-26, 2013, Palm Desert, CA.

Niu, G., Y. Sun, G. Bi, A. Koeser, K. Jacobsen, S. Verlinden, R. Conneway, and **A. Fulcher**. Impact of Biopots on Landscape Plant Performance and Pot Degradation. American Society for Horticultural Science Annual Conference, July 22-26, 2013, Palm Desert, CA.

- White, S.A., **A.F. Fulcher**, A.V. LeBude, S. Frank, F. Hale, W.E. Klingeman, C. Adkins, K. Braman, M.R. Chappell, J.-H. (JC) Chong, J.F. Derr, W.C. Dunwell, G.W. Knox, M.L. Paret, J.C. Neal, N.A. Ward, J. Williams-Woodward and A.S. Windham. Ebooks: A New Platform for Extension Outreach. American Society for Horticultural Science Annual Conference, July 22-26, 2013, Palm Desert, CA.
- Cochran, D^{*M} and **A. Fulcher**. Plant Growth Regulators Increase Branching of *Hydrangea paniculata* 'Limelight' and 'Jane' (Little Lime™). American Society for Horticultural Science Annual Conference, July 22-26, 2013, Palm Desert, CA.
- Wilson, S.E.^M, D. Cochran^{*M}, and **A. Fulcher**. Container-grown Lavender Affected by Oxygenated Irrigation Water. American Society for Horticultural Science Annual Conference, July 22-26, 2013, Palm Desert, CA.
- Nambuthiri, S., R. Geneve, and **A. Fulcher**. Comparison of Irrigation Scheduling Based on Daily Water Use or Plant Water Demand of Container Grown Woody Plants. American Society for Horticultural Science Annual Conference, July 22-26, 2013, Palm Desert, CA.
- Wang, X., T. Fernandez, G. Bi, **A. Fulcher**, R. Geneve, G. Niu, S. Verlinden, B. Cregg, M. Ngouajio, T. Kijchavengku, R. Auras, S. Nambuthiri, R. Conneway, and Y. Sun. Plant Growth and Water Use in Plastic, Fiber, Keratin and Root Pouch Containers. American Society for Horticultural Science Annual Conference, July 22-26, 2013, Palm Desert, CA.
- Wilson, E.^M and **A. Fulcher**^{*}. Development of an Oxygenation System for Nursery Crop Irrigation Water. American Society for Horticultural Science Annual Conference, July 31-August 3, 2012, Miami, FL.
- Hagen^{M*}, E., S. Nambuthiri, **A. Fulcher**, and R. Geneve. Comparing Substrate Moisture-based Daily Water Use and On-demand Irrigation Regimes for Oakleaf Hydrangea Plants Grown in Two Container Sizes. American Society for Horticultural Science Annual Conference, July 31-August 3, 2012, Miami, FL.
- Wang, X.^{*}, R.T. Fernandez, G. Bi, **A. Fulcher**, R. Geneve, G. Niu, S. Verlinden, B. Cregg, M. Ngouajio, T. Kijchavengkul, and R. Auras. Performance of Alternative Containers and Plant Growth and Water Use of *Euonymus fortunei*. American Society for Horticultural Science Annual Conference, July 31-August 3, 2012, Miami, FL.
- Zhu, H., E. Ozkan, R. Derksen, M. Reding, C. Ranger, L. Cañas, C. Krause, J. Locke, S. Ernst, R. Zondag, **A. Fulcher**^{*}, R. Rosetta, H. Jeon, Y. Chen, J. Gu, H. Liu, Y. Shen, and A. Rios. Development of Intelligent Spray Systems for Nursery Crop Production. American Society for Horticultural Science Annual Conference, July 31-August 3, 2012, Miami, FL.

Fulcher, A.*, J.-H. (JC) Chong, J. Neal, S. White, J. Williams-Woodward, C. Adkins, K. Braman, M. Chappell, J. Derr, W. Dunwell, S. Frank, S. Gill, F. Hale, W. Klingeman, A. LeBude, K. Rane and A. Windham. Educators' Guide to Developing an App. American Society for Horticultural Science Annual Conference, August 3, 2012, Miami, FL.

Fulcher, A.*, J.-H. (JC) Chong, J. Derr, S. White, J. Williams-Woodward, C. Adkins, K. Braman, M. Chappell, W. Dunwell, S. Frank, S. Gill, F. Hale, W. Klingeman, A. LeBude, J. Neal, K. Rane and A. Windham. Educators' Guide to Testing, Launching and Promoting an App. American Society for Horticultural Science Annual Conference, August 3, 2012, Miami, FL.

Fulcher, A.*, C. Adkins, K. Braman, M.R. Chappell, J.-H. Chong, W. Dunwell, S. Frank, F. Hale, K. Ivors, W. Klingeman, A.V. LeBude, J. Neal, S. White, Jean Williams-Woodward, and A. Windham. Multiplier Effect of Collaborative Nursery Crops Programming on Outputs and Outcomes. American Society for Horticultural Science Annual Conference, September 27, 2011, Waikoloa, HI.

LeBude, A., S. White, S. Frank, J.-H. Chong, M. Chappell, K. Braman, A. Windham, K. Ivors, F. Hale, W. Klingeman, J. Neal, W. Dunwell, J. Williams-Woodward, C. Adkins, and **A. Fulcher***. Assessing Integrated Pest Management Practices of Southeast US Nursery Operations. American Society for Horticultural Science Annual Conference, September 27, 2011, Waikoloa, HI.

Fulcher, A.* and R. Geneve. Rootstock Influence on Gas Exchange among *Cornus*. American Society for Horticultural Science Annual Conference, September 26, 2011, Waikoloa, HI.

Fulcher, A.* and R. Geneve. Ecophysiology and Comparative Foliar Micromorphology of Big-Bracted *Cornus* Selections. American Society for Horticultural Science Annual Conference, July 25-28, 2009, St. Louis, MO.

Fulcher, A.* and R. Geneve. A Photosynthesis-Based Irrigation Model for Woody Plants. American Society for Horticultural Science Annual Conference, July 25-28, 2009, St. Louis, MO.

Fulcher, A.*, R. Geneve, J. Buxton, and R. Gates. The Relationship between Photosynthetic Activity, Container Moisture and Growth in Hibiscus. American Society for Horticultural Science Annual Conference, July 21-24, 2008, Orlando, FL.

Fulcher, A.*, R. Geneve, and J. Norikane. Photosynthetic Characterization and Water Use Efficiency of *Hibiscus rosa-sinensis*. American Society for Horticultural Science Annual Conference, July 16-19, 2007, Scottsdale, AZ.

Miller-Seagraves, B.L., D.A. Potter, D. Hayden, **A. Fulcher**, and K.F. Haynes. Cultivar Resistance of Nursery-Grown Maples to Major Insect Pests, with Notes on Biology of the Maple Shoot Borer, *Proteoteras aesculana*. Entomological Society of America Annual Conference, December 10-13, 2006, Indianapolis, IN.

Research Presentations Presented at Regional Meetings

^MMentored by Amy Fulcher. *Signifies presenter.

Basiri Jahromi, N.^{M*}, **A. Fulcher**, and F. Walker. 2015. Effect of biochar on water conservation and growth of soilless container grown 'Green Velvet' boxwood and Pinky Winky® hardy hydrangea. Proc. Southern Nursery Association Research Conference. Southern Nursery Association Research Conference, July 21-22, 2015, Atlanta, GA.

Cypher, Q.^M, W. Wright, and **A. Fulcher***. A Cost Effective Tipping Bucket Assembly for Real Time Container Leachate Measurements and Irrigation Management. Proc. Southern Nursery Association Research Conference. Southern Nursery Association Research Conference, July 21-22, 2015, Atlanta, GA.

Fulcher, A.*, D.R. Cochran^M, R. Rosetta, R. Zondag, and H. Zhu. 2014. Laser Tag: Intelligent Sprayers Change the Pest Management Game. Southern Nursery Association Research Conference, August, Atlanta, GA.

Yeary, W.^{M*}, **A. Fulcher**, H. Zhu, W. Klingeman, and J. Grant. 2014. Spray penetration and natural enemy survival in dense and sparse plant canopies. Southern Nursery Association Research Conference, August, Atlanta, GA.

Cochran, D.^{M*} and **A. Fulcher**. 2014. Container-grown Knock Out™ rose affected by fertilizer rate and plant growth regulator. Southern Nursery Association Research Conference, August, Atlanta, GA.

Fulcher, A.* Tennessee IR-4 Update. Southern Region IR-4 Meeting, August 20-21, 2013, Orlando, FL.

Yeary, W.^{M*} and **A. Fulcher**. Effect of Plant Growth Regulators and Propagation Technique on *Clethra alnifolia* 'Hummingbird' and *Rhododendron* 'Roseum Elegans'. Southern Nursery Association Research Conference, August 5-6, 2013, Atlanta, GA.

Zhu, H., **A. Fulcher***, R. Rosetta, E. Ozkan, R. Derksen, M. Reding, C. Ranger, L. Cañas, C. Krause, J. Locke, S. Ernst, R. Zondag, H. Young Jeon, Y. Chen, H. Liu, Y. Shen, and D. Cochran^M. Sensor-guided Intelligent Sprayers: Implications for Increased Worker Safety and Reduced Pesticide Use. Southern Nursery Association Research Conference, August 5-6, 2013, Atlanta, GA.

- Cochran, D.^{M*} and **A. Fulcher**. Development of a Cost-effective Automated Oxygenated Irrigation System. Southern Nursery Association Research Conference, August 5-6, 2013, Atlanta, GA.
- Nambuthiri, S., R. Geneve, and **A. Fulcher**. Evaluating Irrigation Scheduling Based on Daily Evapo-transpiration or Plant Demand of Container Grown Woody Plants. Southern Nursery Association Research Conference, August 5-6, 2013, Atlanta, GA.
- Wilson, S.E.^{M*} and **A. Fulcher**. Development of an Elevated Dissolved Oxygen Treatment System. Southern Nursery Association Research Conference, January 18, 2012, Mobile, AL.
- Fulcher, A.***, G. Niu, G. Bi, M. Evans, T. Fernandez, R. Geneve, A. Koeser, S. Nambuthiri, N. Pershey, R. Stewart, S. Verlinden, and X. Wang. Assessing Biocontainers and a Sustainable Irrigation Regime for the US Nursery Industry. Southern Nursery Association Research Conference, January 18, 2012, Mobile, AL.
- Fulcher, A.*** and W. Klingeman. Effect of Contact and Systemic Insecticides Used for Scale Pests on Beneficial Insects. Southern Nursery Association Research Conference, January 18-19, 2012, Mobile, AL.
- Fulcher A.***, C. Adkins, G. Armel, M. Chappell, J.-H. Chong, S. Frank, F. Hale, K. Ivors, W. Klingeman, A. LeBude, J. Neal, A. Senesac, S. White, J. Williams-Woodward, and A. Windham. Gleanings from a Five State Pest Management Strategic Plan and Crop Profile. Southern Nursery Association Research Conference, January 19-20, 2011, Mobile, AL.
- Fulcher, A.*** Forest Floor, a Sustainable Substrate for Container Tree Production. Southern Nursery Association Research Conference, January 21-22, 2010, Mobile, AL.
- Fulcher, A.*** and R. Geneve. *Cornus*, Gas Exchange, and Drought. Southern Nursery Association Research Conference, February 12-13, 2009, Atlanta, GA.
- Steele, J.^{M*}, **A. Fulcher**, R. Gates, and R. Geneve. Developing a Transpiration Chamber. Southern Nursery Association Research Conference, February 12-13, 2009, Atlanta, GA.
- Fulcher, A.***, J. Buxton, R. Gates, and R. Geneve. The Relationship Between Photosynthetic Activity, Container Moisture and Growth in *Hibiscus rosa-sinensis* L. Southern Nursery Association Research Conference, August 6-7, 2008, Atlanta, GA.
- Poston, A., **A. Fulcher***, W. Dunwell, and R. Geneve. Fascination[®] Increases Growth of 'Rudy Haag' Burning Bush during Container Production. Southern Nursery Association

Research Conference, August 6-7, 2008, Atlanta, GA.

Stolz, S.^{M*}, J. Beale, L. Dougherty^M, S. Long, C. Johnstone^M, **A. Fulcher**, and R. Geneve. Biofungicide and Conventional Control of *Rhizoctonia solani* in a Container Production System. Southern Nursery Association Research Conference, August 8-9, 2007, Atlanta, GA.

Fulcher, A.*, W. Dunwell, and D. Hayden. Taking a Stab at Sourwood-Pruning Techniques to Enhance Branch Development. Southern Nursery Association Research Conference, August 9-10, 2006, Atlanta, GA.

Fulcher A.*, W. Dunwell, R. McNeil, and D. Hayden. IPM for Nursery Crops: Reaching Nursery Crop Growers with Practical Solutions. Southern Nursery Association Research Conference, August 10-11, 2005, Atlanta, GA.

Fulcher, A.*, W. Dunwell, R. McNeil, D. Wolfe, and L. Murdock. Effect of Fertilizer Rate on Growth of Seven Tree Species in Pot-in-Pot Production. Southern Nursery Association Research Conference, August 11-12, 2004, Atlanta, GA.

Fulcher, A.*, W. Dunwell, and D. Wolfe. *Rudbeckia* Taxa Evaluation. Southern Nursery Association Research Conference, July 30-31, 2003, Atlanta, GA.

Fulcher, A.* and J. Hartman. Incidence of Black Knot in Kentucky Nurseries. Southern Nursery Association Research Conference, July 30-31, 2003, Atlanta, GA.

Fulcher, A.*, C. Finneseth, and W. Dunwell. Use of Pelletized Poultry Litter as a Container Substrate. Southern Nursery Association Research Conference, August 1-2, 2002, Atlanta, GA.

Fulcher, A.*, K. Keeney, W. Dunwell, and R. Geneve. 2000. Horticulture Information Preferences among Master Gardeners. Southern Nursery Association Research Conference, August 3-4, 2000, Atlanta, GA.

Fulcher, A.* The Nursery Industry and Invasive Plants. Southern Nursery Association Research Conference, July 29-30, 1999, Atlanta, GA.

Fulcher, A.*, T. Ranney, J. Burton, J. Walgenbach, and D. Danehower. The Role of Endogenous Foliar Phenolics in Host Plant Resistance among *Malus* Taxa to Japanese Beetles. Southern Nursery Association Research Conference, August 1-2, 1997, Atlanta, GA.

Fulcher, A.*, T. Ranney, J. Burton, J. Walgenbach, and E. Maness. Natural Resistance to Japanese Beetles among *Malus* Taxa: Role of Endogenous Foliar Phenolics. Southern Nursery Association Research Conference, August 8-9, 1996, Atlanta, GA.

In-State

^MMentored by Amy Fulcher. *Signifies presenter.

Wilson, S.E.^{M*} Development of an Elevated Dissolved Oxygen Irrigation Treatment System for Nursery Crops. Exhibition of Undergraduate Research and Creative Achievement (EURēCA), March 28, 2012, Knoxville, TN.

Wilson, S.E.^{M*} Effect of Elevated Dissolved Oxygen on Plant Growth. Tennessee Louis Stokes Alliance for Minority Participation Research Presentation Day, August 12, 2011, Knoxville, TN.

Extension Presentations (Primarily Green Industry Audience)**Invited, Out-of-State**

^MMentored by Amy Fulcher. *Signifies presenter.

Irrigation Strategies to Improve Plant Production and Conserve Water. It's All About Water and Increasing Your Bottom Line. July 28, 2015, Grand Rapids, MI.

IPM Resources to Help Nursery Growers. Cultivate'15, July 12, 2015, Columbus, OH.

Effective Crop Growth Management in the Nursery. Cultivate'15, July 12, 2015, Columbus, OH.

Greenhouse Production Apps and "Smartphone-Ready" Business Tips. Annie's Project Webinar Series. March 13, 2014, Rutgers, NJ. (repeat of March 6, 2014 webinar)

Greenhouse Production Apps and "Smartphone-Ready" Business Tips. Annie's Project Webinar Series. March 6, 2014, Rutgers, NJ.

Technology and IPM*Pro* Update and Evaluation. Pest Management and Strategic Plan Preparation Meeting and Southern Nursery IPM Working Group Advisory Meeting. February 24-25, 2014, Quincy, FL.

Hunger Games: Enemies, Arenas and Fighting to the Death!! Center for Applied Nursery Research Annual Open House, January 23, 2014, Duluth, GA.

Fulcher, A.* Straight Talk on IPM*Pro*. Southern Nursery Association Trade Show. August 6, 2013, Atlanta, GA.

Fulcher, A.* Laser Tag with Intelligent Sprayers. International Plant Propagators' Society. November 2-6, 2013, Athens, GA.

Fulcher, A.* IPM meets Laser Tag: Grower-Approved Techniques and Novel Intelligent Sprayers Win Big. NurseryWorks. July 18, 2013, Manhattan, KS.

Hagen, E.^M, S. Nambuthiri, **A. Fulcher**, and R. Geneve. Comparing Substrate Moisture-based Daily Water Use and On-demand Irrigation Regimes for *Hydrangea quercifolia* Grown in Two Container Sizes. International Plant Propagators' Society, Western Region, September 19 - 22, 2012, Ventura, CA. (invited poster presentation)

Fulcher, A.* Winning the Hunger Games with Intelligent Sprayers. The KNLA Summer Outing. September 6, 2012, Clermont, KY.

Fulcher, A.* Practice Makes Perfect-IPM Strategies and Production Practices for Managing Pests. Nursery Crops IPM Workshop, June 14, 2012, Bedford, KY.

Fulcher, A.* and W. Klingeman. Effect of Contact and Systemic Insecticides Used for Scale Pests on Beneficial Insects. Center for Applied Nursery Research Annual Open House, January 27, 2012, Duluth, GA.

Fulcher, A.* Nursery/Landscape Espionage: Scouting and Other Covert Operations. WinterGreen, January 26, 2012, Duluth, GA.

Fulcher, A.* Nursery to Landscape: Making the Transition. Trees: The Best Vitamin G - The 16th Annual Waynesboro Plant Healthcare Workshop, September 8, 2011, Waynesboro, VA.

Fulcher, A.* Using Technology to Out-Smart Pests. GA-FL Green Industry Webinar Series, November 8, 2010.

Fulcher, A.* Nursery to Landscape: Making the Transition. Indiana Professional Lawn and Landscape Association Winter Meeting, December 12, 2007, Carmel, IN.

Fulcher, A.* IPM for Container Tree Production. Assessment of Pest Management Practices and Priorities for Container Tree Production in USDA Hardiness Zone 6-8, September 27-28, 2004, Biloxi, MS.

Fulcher, A.* Fertilizer Rate and Growth of Trees in Pot-in-Pot Production. Assessment of Pest Management Practices and Priorities for Container Tree Production in USDA Hardiness Zone 6-8, September 27-28, 2004, Biloxi, MS.

Fulcher, A.* Nursery to Landscape: Making the Transition. Indiana Professional Lawn and Landscape Association Winter Workshop, January 15, 2004, Plainfield, IN.

Extension Presentations, In-State (Primarily Green Industry Audience)

Organized, Co-Organized, or Part of Team Organizing Event

^MMentored by Amy Fulcher. *Signifies presenter.

Fulcher, A. Hydrangea Boot Camp. Turf and Ornamental Field Day. September 10, 2015, Knoxville, TN.

Fulcher, A. and W. Klingeman. Recent Advances in Technology and Tools to Help Manage! Turf and Ornamental Plant Pests. Turf and Ornamental Field Day. September 11, 2014, Knoxville, TN.

Fulcher, A. and W. Klingeman. Pulp Fiction: Facts and Fiction on Managing Landscape Plants & Pests. Turf and Ornamental Plant Pests. Turf and Ornamental Field Day. September 11, 2014, Knoxville, TN.

Fulcher, A. Systems-based Pest Management: Prevention and Solarization Demonstration. Nursery IPM Workshop. June 17-18, 2014, Decherd, TN.

Fulcher, A., W. Klingeman, A. LeBude, S. White. IPMPro Version 2 Update. Nursery IPM Workshop. June 17-18, 2014, Decherd, TN.

Fulcher, A.* Container Irrigation. Systems-based Pest Management Workshop. September 26, 2013, McMinnville, TN.

Fulcher, A.* Soil and Substrate, Irrigation, Field Production, and Training Employees. Systems-based Pest Management Workshop. September 26, 2013, McMinnville, TN.

Cochran, D.^{M*} Welcome and Survey Responses. Systems-based Pest Management Workshop. September 26, 2013, McMinnville, TN.

Fulcher, A.* and W. Klingeman*. New Technology for Managing Pests of Turf and Ornamentals. Turf and Ornamental Field Day. September 12, 2013, Knoxville, TN.

Fulcher, A.*, D. Cochran^{M*}, W. Yeary^{M*}, and W. Klingeman*. Pulp Fiction: Facts and Fiction Pertaining to Managing Ornamental Pests. Turf and Ornamental Field Day. September 12, 2013, Knoxville, TN.

Fulcher, A.* Reducing Off-Target Pesticide Loss. Tennessee Master Nursery Producer Program. December 4, 2012, McMinnville, TN.

Fulcher, A.*, E. Hagen^{M*}, T. Samples*, and W. Yeary^{M*}. What Went Wrong? Turf and Ornamental Field Day. September 13, 2012, Knoxville, TN.

Fulcher, A.* and W. Klingeman*. Mobile App: *IPMPro*. Turf and Ornamental Field Day. September 13, 2012, Knoxville, TN.

Fulcher, A.* and W. Klingeman*. iBook: IPM for Select Deciduous Trees in Southeastern U.S. Nursery Production. Turf and Ornamental Field Day. September 13, 2012, Knoxville, TN.

Yeary, W.^M* Effect of Propagation Techniques and Plant Growth Regulator Application during Production on *Magnolia virginiana*, *Clethra alnifolia* and *Rhododendron*. Turf and Ornamental Field Day. September 13, 2012, Knoxville, TN.

Fulcher, A.* Sprayer Calibration Demonstration. Airblast Sprayer Workshop: Optimizing Your Sprayer for Better Coverage, Better Pest Control, and Greater Savings. May 4, 2011, McMinnville, TN.

Fulcher, A.* Dogwood Irrigation. Container Dogwood Production Workshop. November 18, 2010, McMinnville, TN.

Fulcher, A.* Kentucky Nursery Crop Production. Southern Region Nursery Crop Pest Management Meeting. July 30-31, 2009, Asheville, NC.

Zhu, H.*, R. Zondag*, A. Clark*, and **A. Fulcher***. Evaluating Half-Rate and Full-Rate Treatments for Effective Pest Control. Half-Rate Pesticide Application for Nurseries. July 14, 2009, Elizabethtown, KY.

Fulcher, A.* Nitrogen Basics. Nursery Crops IPM Workshop. June 4, 2009, La Grange, KY.

Fulcher, A.* Increasing Branch Number on Woody Ornamentals during Production. Kentucky Landscape Industries Winter Conference, January 12, 2009, Louisville, KY.

Fulcher, A.* Two Years and Counting: A Horticulturist's Perspective on Granulate Ambrosia Beetle. Nursery Winter Workshop. February 13, 2008, Elizabethtown, KY.

Poston, A.*, **A. Fulcher**, W. Dunwell, and R. Geneve. Use of Plant Growth Regulators in Container-Grown Nursery Stock. Kentucky Landscape Industries Winter Conference. January 2, 2008, Louisville, KY.

Fulcher, A.* Scouting Nursery Crops in Kentucky - Tips and Techniques. Scouting Nursery Crops Workshop. May 24, 2006, Goshen, KY.

Fulcher, A.* Using Technology to Out-Smart Pests. Putting IPM to Work in the Nursery. May 25, 2005, Burlington, KY.

- Fulcher, A.*** Scouting Nursery Liners for Pests. Nursery Winter Workshop. February 2, 2005, Shelbyville, KY.
- Fulcher, A.*** Invasive Pest Update. IPM: Practical Techniques for Nursery Production. August 3, 2004, Murray, KY.
- Fulcher, A.*** and D. Michael*. Insect Resistant Plants. Best Management Practices Workshop. February 18, 2004, Princeton, KY.
- Fulcher, A.*** Scouting, Monitoring, and Recordkeeping. Kentucky IPM for Nursery Production Workshop Series. July 10, 2003, Murray, KY.
- Fulcher, A.*** IPM for Nursery Production. Kentucky IPM for Nursery Production Workshop Series. March 6, 2003, Murray, KY.
- Fulcher, A.*** and D. Michael*. Roots and Soil. Kentucky Best Management Practices Workshop III. February 26, 2002, Louisville, KY and February 27, 2002, Princeton, KY.
- Fulcher, A.*** and D. Michael*. Understanding the Basics. Kentucky Landscape Industries Winter Conference and Trade Show. January 8-10, 2002, Lexington, KY.
- Fulcher, A.*** and D. Michael*. Solving Plant Problems. Kentucky Landscape Industries Winter Conference and Trade Show. January 8-10, 2002, Lexington, KY.
- Fulcher, A.*** and D. Michael*. Why Do My Plants Look This Way? Kentucky Landscape Industries Winter Conference and Trade Show. January 8-10, 2002, Lexington, KY.
- Fulcher, A.*** and D. Michael*. Are Your Plants in the “Zen Zone”? Kentucky Landscape Industries Winter Conference and Trade Show. January 8-10, 2002, Lexington, KY.
- Fulcher, A.*** and D. Michael*. In the Real World Nothing is Perfect. Kentucky Landscape Industries Winter Conference and Trade Show. January 8-10, 2002, Lexington, KY.
- Fulcher, A.*** Water Quality. Kentucky Best Management Practices Workshop II. February 20, 2001, Princeton, KY.
- Fulcher, A.*** Container Substrates. Kentucky Best Management Practices Workshop. March 30, 2000, Princeton, KY.
- Fulcher, A.*** Container and Landscape BMPs. Kentucky Best Management Practices Workshop. March 30, 2000, Princeton, KY.

Guest Speaker

(^MMentored by Amy Fulcher)

Biodegradable and Other Alternative Containers. East Tennessee Nursery Association. September 15, 2015.

Inspecting Nursery Stock for Pests and Problems. Landscape Review. September 3, 2015, Jackson, TN.

Plant Growth Regulators on *Hydrangea macrophylla* and *H. paniculata*. Nursery and Landscape Research Update. Tennessee Nursery and Landscape Association Field Day. June 23, 2015, Knoxville, TN.

Cypher, Q.^M Measuring Nursery Container Leachate. Nursery and Landscape Research Update. Tennessee Nursery and Landscape Association Field Day. June 23, 2015, Knoxville, TN.

Basiri Jahromi, N.^M Bochar as a Container Substrate for Nursery Production. Nursery and Landscape Research Update. Tennessee Nursery and Landscape Association Field Day. June 23, 2015, Knoxville, TN.

Paper or Plastic? Grounds Maintenance Shortcourse. February 3, 2015, Knoxville, TN.

Paper or Plastic? Green Express Horticultural Short Course. January 7, 2015, Chattanooga, TN.

IPM Practices Made Easy for Nursery and Landscape Professionals. Tennessee Green Industry Expo, October 2, 2014, Nashville, TN.

Cochran, D.^M Nursery and Landscape Research Update. Tennessee Nursery and Landscape Association Field Day, June 24, 2014, Knoxville, TN.

Weather and Plants. How Weather Affects Plants and Extension Programs. March 13, 2014, Knoxville, TN.

Tree Planting and Post-Planting Care. Celebrating Trees: Right Tree, Right Place. March 6, 2014, Johnson City, TN.

Pruning Ornamental Plants. McCurdy Day. February 27, 2014, Jackson, TN.

Pruning and PGRs in the Landscape. Grounds Maintenance Shortcourse. February 12, 2014, Knoxville, TN.

Using IPM^{Pro} (and More) to Manage Pests. Middle Tennessee Landscape Short Course. January 15, 2014, Franklin, TN.

Pruning to Maximize Blooms and Insect and Disease Prevention. Green Express Horticultural Short Course. January 9, 2014, Chattanooga, TN.

Cochran, D.^{M*}, W. Yeary*, and **A. Fulcher***. 2013. Nursery and Landscape Research Update. Tennessee Nursery and Landscape Association Field Day. June 25, 2013, Knoxville, TN.

Cochran, D.^{M*}, Nursery to Landscape: Making the Transition. Middle Tennessee Landscape Short Course. January 16, 2013, Franklin, TN.

Cochran, D.^{M*}, IPM Principles for Nurseries and Landscapes. Middle Tennessee Landscape Short Course. January 17, 2013, Franklin, TN.

Fulcher, A.* Serving Green-Minded Clientele from Scouting to Intelligent Sprayers. Grounds Maintenance Short Course. January 30, 2013, Knoxville, TN.

Fulcher, A.* IPM Principles for Landscapes and Nurseries. Green Express. January 10, 2013, Chattanooga, TN.

Fulcher, A.* IPM Principles for Nurseries and Landscapes. Tennessee Green Industry Expo. January 3, 2013, Nashville, TN.

Fulcher, A.* Diagnostics Basics: Dead Plants 101. Tennessee Association of Pesticide Applicators. July 19, 2012, Gatlinburg, TN.

Hagen, E.^{M*}, A. Menendez^{M*}, W. Yeary^{M*}, and A. Fulcher*. Nursery and Landscape Research Update. Tennessee Nursery and Landscape Association Field Day, June 19, 2012, Knoxville, TN.

Fulcher, A.* Integrated Pest Management for Nursery Production. Warren Co. Extension Program, March 27, 2012, McMinnville, TN.

Fulcher, A.* Integrated Pest Management for Nursery Production. Grundy Co. Extension Program, March 26, 2012, Coalmont, TN.

Fulcher, A.* Espionage, Scouting, and Other Covert IPM Operations. TNLA Nursery Shortcourse, February 20, 2012, Pigeon Forge, TN.

Fulcher, A.* Plant Detective: A Game of Questions. Grounds Maintenance Shortcourse, February 15, 2012, Knoxville, TN.

Fulcher, A.* Dead Plants 101: Clues to Solving Your Plant Problems. January 6, 2012, Chattanooga, TN.

Fulcher, A.* Plant CSI: Diagnosing the Pest. Landscape Review, September 13, 2011, Jackson, TN.

Fulcher, A.* Plant Growth Regulator and Sophisticated Irrigation Technology Research Preview. Tennessee Green Industry Field Day, June 14, 2011, Knoxville, TN.

Wilson, S.E.^{M*} Developing a System to Elevate Dissolved Oxygen Levels in Nursery Irrigation Water. Tennessee Green Industry Field Day, June 14, 2011, Knoxville, TN.

Fulcher, A.* Dead Plants 101: Clues to Solving Your Plant Problems. TNLA Nursery Shortcourse, February 14, 2011, Pigeon Forge, TN.

Fulcher, A.* Techno-Savvy Horticulture: Tools to Out-Smart Pests and Enhance Plant Health. 39th Annual Grounds Management Shortcourse, February 2, 2011, Knoxville, TN.
Keynote Speaker.

Fulcher, A.* A Horticulturist's Perspective on Scale Pests of Woody Plants. Tri-Cities landscape Seminar, January 21, 2011, Jonesborough, TN.

Fulcher, A.* A Horticulturist's Perspective on Scale Pests of Woody Plants Green Express Horticultural Short Course, January 6, 2011, Chattanooga, TN.

Fulcher, A.* A Horticulturist's Perspective on Scale Pests of Woody Plants. KNLA Summer Outing, September 8, 2010, Burlington, KY.

Fulcher, A.* Louisville Green™ Fertilizer Trial. KNLA Summer Outing. September 2, 2009, Springfield, KY.

Fulcher, A.* IPM for Nursery Crops. UKREC Field Day, July 23, 2009, Princeton, KY.

Fulcher, A.* Tales from the Trap: Granulate Ambrosia Beetle. Commercial Arborist, Landscaper, and Nursery Workshop, January 30, 2009, Burlington, KY.

Fulcher, A.* What Stephen Covey Didn't Tell You: Common Pitfalls of New Growers and Characteristics of Successful Ones. Commercial Arborist, Landscaper, and Nursery Workshop, January 30, 2009, Burlington, KY.

Hartman, J.*, L. Townsend*, **A. Fulcher***, W. Fountain*, and T. Priddy*. Plant Life Beyond the 2007 Freeze – Where We Were and Where We Are Now. KNLA Summer Outing, September 5, 2007, Crestwood, KY.

Fulcher, A.* and J. Hartman*. Polymerase Chain Reaction Techniques for Identifying Black Knot of Cherries and Soybean Cyst Nematode Infection. UKREC Field Day, July 26, 2007, Princeton, KY.

Fulcher, A.* An Update on Nursery IPM. Central Kentucky Ornamental and Turf Association Winter Horticulture Conference, February 15, 2007, Lexington, KY.

Fulcher, A.* and R. Geneve. Water Relations and Photosynthetic Capacity in Two Dogwood Species and Their Hybrid. Kentucky Landscape Industries Winter Conference, January 2-3, 2007, Louisville, KY.

Fulcher, A.* Nursery and Landscape Plant Production. Mason County Farmer-Banker Field Day, June 22, 2006, Mays Lick, KY.

Hayden, D.* and **A. Fulcher***. 2005 in Review: Trends in Kentucky Production. Kentucky Landscape Industries Winter Trade Show and Educational Conference, January 3-4, 2006, Louisville, KY.

Fulcher, A.* Update on Black Knot Resistance Research among Purple-leaved Plums. UK College of Agriculture Field Day, July, 28, 2005, Princeton, KY.

Fulcher, A.* Nutrition, Irrigation, and Monitoring; Pest and Weed Management; and Resistance to Black Knot among Purple-leaved Plums. Kentucky Landscape Industries Winter Trade Show and Educational Conference, January 12-14, 2005, Louisville, KY.

Hayden, D.* and **A. Fulcher***. 2004 in Review: Trends in Kentucky Production. Kentucky Landscape Industries Winter Trade Show and Educational Conference, January 12-14, 2005, Louisville, KY.

Fulcher, A.* Pot-in-Pot Nursery Production. Kentucky Farm Bureau State Convention, December 8, 2004, Louisville, KY.

Fulcher, A.* Fire and Ice: Understanding Cold Hardiness and Heat Tolerance. Kentucky Landscape Industries Winter Trade Show and Conference, January 6-8, 2004, Louisville, KY.

Fulcher, A.* Evaluation of Black Knot Resistance among *Prunus* Taxa. Kentucky Landscape Industries Winter Trade Show and Conference, January 6-8, 2004, Louisville, KY.

IN-SERVICE TRAININGS AND OTHER AGENT TRAINING EVENTS OF SIGNIFICANCE

Descriptive title including dates	Involvement (sole coordinator, team, guest)	Number of students	Number of sessions	Duration of each session (hours)
Turf and Ornamental Field Day In-Service, September 10, 2015 Hydrangea Boot Camp	Team	561 (agents are a portion of this number)	4	0.5
Landscape Review September 3, 2015 Inspecting Nursery Stock for Pests and Problems	Guest	85	1	1.0
Summer Celebration, July 9, 2015 Diagnostic Tent	Guest	750 (at my tent)	1	6.5
Sustainable Nursery Irrigation: Controlling Growth and Reducing Risk from Irrigation Water Resources and Regulations Workshop and In-Service, September 25, 2014 • Research Update: Biocontainers	Team	50	1	0.5
Turf and Ornamental Field Day In-Service, September 11, 2014 • Recent Advances in Technology and Tools to Help Manage! • Pulp Fiction: Facts and Fiction on Managing Landscape Plants & Pests	Team	495 (agents are a portion of this number)	8 1	0.5 2.0
Nursery IPM Workshop and In-Service, June 17-18, 2014 • IPMPro Version 2 Update • Systems-based Pest Management: Prevention and Solarization Demonstration	Team	38	1 1	0.25 0.5
Horticulture, Turf and Nursery Production In-Service, March 11, 2014 • Pruning for Plant Health and Aesthetics • Walking Assessment	Team	15	1 1	0.75 2.0
Systems-based Pest Management In-Service ¹ , September 26, 2013 • Soil and Substrate, Irrigation, Field Production, Training Employees • Container Irrigation	Co-coordinated	56	1 1	0.25 1.0

Turf and Ornamental Field Day In-Service ¹ , September 12, 2013 <ul style="list-style-type: none"> • New Technology for Managing Pests of Turf and Ornamentals • Pulp Fiction: Facts and Fiction Pertaining to Managing Ornamental Pests 	Team	520 (agents are a portion of the total audience)	8 1	0.5 1.0
Turf and Ornamental Field Day In-Service ¹ , September 13, 2012 <ul style="list-style-type: none"> • IPM Tools and Managing Emerging Pests • What's Wrong with This Picture? 	Team	477 (agents are a portion of the total audience)	5 1	1.0 2.0
Central Region In-Service, August 29-30, 2012 <ul style="list-style-type: none"> • Container Nursery Production Fertilization • Container Nursery Substrates • Emerging Issues: Mobile Technology for Nursery Crops 	Team day 1, sole coordinator day 2	15	1 1 1	0.5 0.5 0.25
Central Region Agent Meeting, August 26, 2011 <ul style="list-style-type: none"> • Meet New Specialist, Amy Fulcher 	Guest	55	1	0.25
Western Region In-Service, July 21, 2011 <ul style="list-style-type: none"> • Diagnostic Basics 101: Clues to Solving Your Plant Problems 	Team	25	1	1.0
Eastern Region In-Service, May 12-13, 2011 <ul style="list-style-type: none"> • Basic Botany Review • A Year in Ornamental Horticulture Production • Commercial Ornamental Horticulture Agent Resources • Container Potting Demonstration 	Team	20	1 1 1 1	0.5 0.5 0.25 0.75
Eastern Region Centra presentation, December 14, 2010 <ul style="list-style-type: none"> • Meet New Specialist: Amy Fulcher 	Team	8	1	0.25
CES Professional Development Conference, January 10, 2005 <ul style="list-style-type: none"> • Nursery Resources 	Team	35	1	0.5
Horticulture Extension Agent In-Service, November 13, 2003 <ul style="list-style-type: none"> • IPM for Nursery Production Overview 	Team	30	1	1.0

¹In addition to being an Extension Agent In-Service, this was also open to the industry

CONFERENCES/WORKSHOPS ORGANIZED OR CO-ORGANIZED (Please also see Service section)

Turf and Ornamental Field Day, member of a team of organizers led by Dr. Jim Brosnan, Knoxville, TN, September 10, 2015, 561 participants

How a New Working Group Used Synergy to Fuel Economic Impact and Increase Deliverables

Mini-Symposium, co-organized, within the International IPM Symposium, Salt Lake City,

March 26, 2015, 15 participants
Sustainable Nursery Irrigation: Controlling Growth and Reducing Risk from Changing Irrigation Water Resources and Regulations Workshop, co-organized, McMinnville, TN, September 25, 2014, 50 participants
Turf and Ornamental Field Day, member of a team of organizers led by Dr. Jim Brosnan, Knoxville, TN, September 11, 2014, 495 participants
Nursery IPM Workshop, co-organized, Decherd, TN, June 17-18, 2014, 36 participants (limited registration to 36)
Department of Labor Update for the Nursery Industry, co-organized with Michael Barry, Smithville, TN, February 3, 2014, 33 participants
Systems-based Pest Management Workshop, co-organized, McMinnville, TN, September 26, 2013, 56 participants
Turf and Ornamental Field Day, member of a team of organizers led by Dr. Jim Brosnan, Knoxville, TN, September 12, 2013, 520 participants
Tennessee Nursery and Landscape Association Winter Education Conference, co-organized, Pigeon Forge, TN, February 18-19, 2013, 100 participants
Tennessee Master Nursery Producer Program, committee chair, six 4-hour classes, McMinnville, TN, November 11, 2012-December 18, 2012, 45 participants
Turf and Ornamental Field Day, member of a team of organizers led by Dr. Jim Brosnan, Knoxville, TN, September 13, 2012, 477 participants
Airblast Sprayer Calibration Workshop, co-organized, McMinnville, TN, May 4, 2011, 55 participants
Container Dogwood Workshop, co-organized, McMinnville, TN, November 18, 2010, 25 participants
Airblast Sprayer Calibration Workshop, organized, Pleasureville, KY, July 2008, 100 participants
Kentucky Landscape Industries Winter Conference, committee chair 2010, co-chair, 2008-2009, 250-300+ participants
Kentucky Landscape Industries Winter Conference, Customer Service Track, 2002, 80 participants
Best Management Practices Workshop, co-organized, 2000-2005, 25-80 participants annually
Nursery Winter Workshop, organized, 2005-2010, 25-45 participants annually
Nursery Crops Scouting Workshop, organized, 2003-2010, 25-45 participants annually

TEACHING EXPERIENCE

Online Professional Development Programs, Edited and Produced

Tennessee Master Nursery Producer Program, 2014

Marketing and Economics I, Marketing and Economics II, Marketing and Economics III

Irrigation I, Irrigation II

Container Production I, Container Production II, Container Production III, Container Production

IV

Plant Nutrition and Fertilization I
 Field Production I, Field Production II, Field Production III
 Pruning, Staking, and Branch Architecture I
 Propagation I, Propagation II
 Pest Mgt. I, Pest Mgt. II, Pest Mgt. III, Pest Mgt. IV, Pest Mgt. V

Online Professional Development Programs, Modules Developed

Tennessee Master Nursery Producer Program, 2014. Each module contains 60 minutes of narrated content and has a 10 question quiz. The program also includes a 105 question pre- and post-test.

- Marble, S.C.^M 2014. Marketing and Economics I. Tennessee Master Nursery Producer Program. University of Tennessee, Knoxville TN.
- Marble, S.C.^M 2014. Marketing and Economics II. Tennessee Master Nursery Producer Program. University of Tennessee, Knoxville TN.
- Marble, S.C.^M 2014. Marketing and Economics III. Tennessee Master Nursery Producer Program. University of Tennessee, Knoxville TN.
- Marble, S.C.^M 2014. Irrigation I. Tennessee Master Nursery Producer Program. University of Tennessee, Knoxville TN.
- Marble, S.C.^M 2014. Irrigation II. Tennessee Master Nursery Producer Program. University of Tennessee, Knoxville TN.
- Marble, S.C.^M 2014. Container Production I. Tennessee Master Nursery Producer Program. University of Tennessee, Knoxville TN.
- Marble, S.C.^M 2014. Container Production II. Tennessee Master Nursery Producer Program. University of Tennessee, Knoxville TN.
- Marble, S.C.^M 2014. Container Production III. Tennessee Master Nursery Producer Program. University of Tennessee, Knoxville TN.
- Marble, S.C.^M and Neil Mattson. 2014. Container Production IV. Tennessee Master Nursery Producer Program. University of Tennessee, Knoxville TN.
- Marble, S.C.^M 2014. Plant Nutrition and Fertilization I. Tennessee Master Nursery Producer Program. University of Tennessee, Knoxville TN.
- Marble, S.C.^M 2014. Field Production I. Tennessee Master Nursery Producer Program. University of Tennessee, Knoxville TN.
- Marble, S.C.^M 2014. Field Production II. Tennessee Master Nursery Producer Program. University of Tennessee, Knoxville TN.
- Marble, S.C.^M 2014. Field Production III. Tennessee Master Nursery Producer Program. University of Tennessee, Knoxville TN.
- Marble, S.C.^M 2014. Pruning, Staking, and Branch Architecture I. Tennessee Master Nursery

Producer Program. University of Tennessee, Knoxville TN.

Marble, S.C.^M 2014. Propagation I. Tennessee Master Nursery Producer Program. University of Tennessee, Knoxville TN.

Marble, S.C.^M 2014. Propagation II. Tennessee Master Nursery Producer Program. University of Tennessee, Knoxville TN.

Marble, S.C.^M 2014. Pest Management I. Tennessee Master Nursery Producer Program. University of Tennessee, Knoxville TN.

Please note: Pest Management II to V were developed by other members of the TMNP Program committee.

University Courses Taught

Course Number	Course Title, Institution	Credit Hours	Semester
PLSC 504	Seminar	1	Spring 201
HS 531	Physiology of Landscape Plants, NCSU (TA)	3	Spring 199
HS 011	Plant Identification, NCSU (TA)	3	Fall 1996 (1/2)

University Course Guest Lectures

Course Number	Course Title, Institution	Credit Hours	Semester
PLSC 410	Nursery Management and Production, UT – 2 different lectures	3	Spring 2015
PLSC 370	Grounds Maintenance, UT	3	Fall 2014
PLSC 410	Nursery Management and Production, UT	3	Spring 2013
PLS 597	Nursery Production and Floriculture, UK	3	Spring 2009
PLS 525	Greenhouse Floral Crop Management, UK	3	Spring 2007
BAE 581	Physics of Plant and Animal Environments, UK	3	Spring 2007
AGR 361	Horticulture and Greenhouse Production Management, Murray State University	3	Spring 2004

Teaching Assistant

HS 011 Plant Identification, Fall 1996, ½ semester
 North Carolina State University, Raleigh, NC
 Mark Starrett, Instructor

HS 531 Physiology of Landscape Plants, Spring 1996
 North Carolina State University, Raleigh, NC
 Dr. J.C. Raulston, Professor

Mentored Graduate Students**Projects Supervised - Undergraduate Projects, Internships, and Nursery Scouts**

S. Evan Wilson. Project: “Development of Elevated Dissolved Oxygen on Plant Growth”
 PLSC 493, Problems in Horticulture/Plant Sciences
 Major: Chemical Engineering, May 2011-May 2013

Department	Student and Degree	Role	Dates
BESS	Nastaran Basiri Jahromi, Ph.D.	Co-Advisor	2014-present
Plant Sciences	Whitney Yeary M.S.	Major Advisor	2011-2014
Plant Sciences	Ethan Hagen M.S.	Major Advisor	2011-2013

Awarded 1st place in the Bryson L. James Student Research Competition (B.S. Division) of the Southern Nursery Association Research Conference, January 18, 2012, Mobile, AL.

Heather Bowers, Project: “Developing Nursery and Landscape IPM QuickFacts”
 Major: Plant Sciences, concentration in Landscape Design and Construction, May 2011-May 2012

Ian Taylor Cavanaugh, UK Nursery Crops Scout and Nursery Research Assistant
 Major: Horticulture, Plant and Soil Science
 April-October 2010

Scott Koenig, UK Nursery Crops Scout
 Major: Horticulture, Plant and Soil Science
 March-July 2009

J. Theo Steele, Project: “Development of a Transpiration Chamber”
 BAE 450, Special Problems
 Major: Biosystems Engineering

May-December 2008

Awarded third place in the B.S. section, Bryson L. James Student Research Competition, Southern Nursery Association Research Conference, February 12-13, 2009, Atlanta, GA.

E. Michelle Senn, UK Nursery Crops Scout Internship

March-July 2008

E. Michelle Senn, Project: "Effect of Physical Manipulation and Plant Growth Regulator Application on Branching of Oak, Linden, and Kentucky Coffeetree"

PLS 490, Senior Capstone Project

March-December 2008

Sarah Stolz, Project: "Biofungicide and Conventional Control of *Rhizoctonia solani* in a Container Production System"

PLS 395, Special Problems in Plant Science

January-May 2007

Leah Dougherty, UK Nursery Crops Scout

March-August 2007

Chlodys Johnstone, Nursery Research Assistant

May- August 2007

Emily Bruner, UK Nursery Crops Scout

March-August 2007

Shauna Switzer, UK Nursery Crops Scout

Major: Biology

March-September 2006

Derrick Hammons, UK Nursery Crops Scout

April-July 2005

MEDIA AND MULTIMEDIA

Mobile Device Applications (Interactive Media)

Fulcher, A., J.-H. (JC) Chong, S. White, J. Williams-Woodward, C. Adkins, K. Braman, M. Chappell, J. Derr, W. Dunwell, S. Frank, S. Gill, F. Hale, W. Klingeman, A. LeBude, J. Neal, K. Rane, and A. Windham. 2012. *IPMPro*. Android and iPhone, iPod Touch, and iPad-compatible Green Industry app on major pests and plant care practices.

Fulcher, A., J.-H. (JC) Chong, S. White, J. Williams-Woodward, C. Adkins, K. Braman, M.

Chappell, J. Derr, W. Dunwell, S. Frank, S. Gill, F. Hale, W. Klingeman, A. LeBude, J. Neal, K. Rane, and A. Windham. 2012. *IPMLite*. Android and iPhone, iPod Touch, and iPad-compatible app on major pests and plant care practices for gardeners.

Instructional Videos

“Systems-based Pest Management: Shipping and Receiving” 2014.

Produced by: H. Jones^M and D. Cochran^M, edited by A. Fulcher. Videos created in collaboration with F. Hale and A. Windham. Funded by the Southern Risk Management Education Center.

<http://www.youtube.com/watch?v=LovKvW-CKbY>

“Systems-based Pest Management: Pruning Practices” 2014.

Produced by: H. Jones^M and D. Cochran^M, edited by A. Fulcher. Videos created in collaboration with F. Hale and A. Windham. Funded by the Southern Risk Management Education Center.

<http://www.youtube.com/watch?v=CHrRPh3lqIk>

“Systems-based Pest Management: Propagation Practices” 2014.

Produced by: H. Jones^M and D. Cochran^M, edited by A. Fulcher. Videos created in collaboration with F. Hale and A. Windham. Funded by the Southern Risk Management Education Center.

<http://www.youtube.com/watch?v=gLvl6rcvGaw>

“Systems-based Pest Management: Irrigation Practices” 2014.

Produced by: H. Jones^M and D. Cochran^M, edited by A. Fulcher. Videos created in collaboration with F. Hale and A. Windham. Funded by the Southern Risk Management Education Center.

<http://www.youtube.com/watch?v=X4LlfYJljs>

“Systems-based Pest Management: Potting Practices” 2014.

Produced by: H. Jones^M and D. Cochran^M, edited by A. Fulcher. Videos created in collaboration with F. Hale and A. Windham. Funded by the Southern Risk Management Education Center.

<http://www.youtube.com/watch?v=s7f5OqBodfk>

“Pot-in-Pot Nursery Production” UK VHO-1512. 2004.

Produced by A. Fulcher, videography by D. Stallion. This video is an overview of common pot-in-pot installation methods. The video also discusses cultural practices and includes interviews with pot-in-pot growers and their advice to those embarking on pot-in-pot production. The video was distributed to all 120 Kentucky county Extension offices, is available through the UK video library, and has been distributed to growers throughout Kentucky and other states. Funded by the Kentucky Horticulture Council.

<http://www.youtube.com/watch?v=wNeBurkznlk>

Videos of Presentations

“IPM Strategies and Production Practices for Managing Pests” 2012.

http://www.youtube.com/watch?v=up6GJScQ05g&feature=em-subst_digest

Web Packet Extension News You Can Use

Tennessee nursery growers can benefit from systems-based pest management.

For Release 10/15/13-11/30/13.

Electronic Books and Other Significant Documents Published Electronically Edited or Co-Edited

Braman, S.K., M. Chappell, J.-H. Chong, **A. Fulcher**, N.W. Gauthier, W.E. Klingeman, G. Knox, A. LeBude, J. Neal, S.A. White, C. Adkins, J. Derr, S. Frank, F. Hale, F.P. Hand, C. Marble, J. Williams-Woodward, and A. Windham. 2015. Pest Management Strategic Plan for Container and Field-Produced Nursery Crops: revision 2015. A.V. LeBude and **A. Fulcher**, eds. Southern Region IPM Center, Raleigh, NC. 236 p.

<http://www.ipmcenters.org/pmsp/pdf/SNIPMnurserycrops2015.pdf>

UT-UK IPM for Shrub Production Manual. 2013. **A. Fulcher**, ed. University of Tennessee, Knoxville, TN. 80pp. (electronic version)

<http://plantsciences.utk.edu/tnsustainablenurserycrops.htm>

IPM for Select Deciduous Trees in Southeastern US Nursery Production. 2012. **A. Fulcher** and S. White, eds. Southern Nursery IPM Working Group, Knoxville, TN. 326pp. (electronic version)

<http://itunes.apple.com/us/book/ipm-for-select-deciduous-trees/id541182125?mt=11>

Adkins, C., G. Armel, M. Chappell, J.-H. Chong, S. Frank, **A. Fulcher**, F. Hale, K. Ivors, W. Klingeman, A. LeBude, J. Neal, A. Senesac, S. White, and A. Windham. 2010. Pest Management Strategic Plan for Container and Field-Produced Nursery Crops in GA, KY, NC, SC, TN. **A. Fulcher**, ed. Southern Region IPM Center.

Adkins, C., G. Armel, M. Chappell, J.-H. Chong, S. Frank, **A. Fulcher**, F. Hale, K. Ivors, W. Klingeman, A. LeBude, J. Neal, A. Senesac, S. White, J. Williams-Woodward, and A. Windham. 2010. Crop Profile for Container and Field-Produced Nursery Crops in Georgia, Kentucky, North Carolina, South Carolina and Tennessee. **A. Fulcher** (ed.). Southern Region IPM Center.

Co-authored

Cochran, D.^M, **A. Fulcher**, F. Hale, and A. Windham. 2014. D. Cochran^M, ed. Metodo Basado en Sistemas para el Control de Plagas: Una Guia Rapida de Referencia. University of Tennessee. 47pp.

http://plantsciences.utk.edu/pdf/fulcher_SBPM_man_english_090314_wo_spanish_checklist.pdf

Cochran, D.^M, **A. Fulcher**, F. Hale, and A. Windham. 2014. D. Cochran^M, ed. Systems-based Approach to Pest Management: A Quick Reference Guide. University of Tennessee.

47pp.

http://plantsciences.utk.edu/pdf/fulcher_SBPM_man_spanish_090314_wo_english_cklist.pdf

Mizell, R., G. Knox, P. Knight, C. Gilliam, S. Arthers, R. Austin, H. Baldwin, D. Batson, D. Boyd Jr., A. Bolques, K. Braman, C. Coker, Y. Chen, P. Cuevas, M. Cuevas, M. Czarnota, J. DeMott, J. Dobbs, V. Donnan, G. Fain, D. Fare, M. Faver, T. Friday, **A. Fulcher**, J. Funderburk, S. Gmeiner, G. Hackney, A. Hagan, F. Hale, J. Hayes, J. Hendrix, J. Horng, W. Klingeman, M. Gu, M. Halcomb, W. Hudson, R. Humphries, C. Kinard, G. Kirker, S. Ludwig, J. Marshall, F. May, W. McLaurin, P. Miller, T. Mitchell, G. Niu, J. Norcini, J. Oliver, B. Posadas, N. Rechcigl, T. Rinehart, C. Roebecker, P. Schultz, B. Simpson, R. Story, Ken Tilt, S. Webb, R. Webb, and K. Whitley. 2011. Woody Ornamental and Landscape Plant Production and Pest Management Innovation Strategic Plan. Southern Region IPM Center.
<http://www.sripmc.org/pmsp/NurseLandscapeSouth.pdf>

Websites

Developed by Dr. Diana Cochran^M, co-curated by Amy Fulcher and Dr. Diana Cochran^M
Impact and Social Acceptance of Selected Sustainable Practices in Ornamental Crop Production Systems.

Outreach component of SCRI award 2010-51181-21212

<http://www.sustainablecontainersandirrigation.com>

Developed and curate website to archive presentations as a resource for extension agents and area specialists: Resources

http://plantsciences.utk.edu/fulcher_resources_agents.htm

Developed and curate a website to disseminate storm-related nursery and landscape information following 2011 spring storms, tornadoes, and flooding: Managing Storm and Disaster Damage in Nurseries and Landscapes

http://plantsciences.utk.edu/pdf/managing_storm_disaster_damage_in_landscapes_nurseries.pdf

Newsletters

Kentucky Nursery Update - Ten electronic issues during the growing season, 2002-2010.

Creative Activity

Nursery Crops University Listserv. Members represent research, extension, USDA, and public gardening communities.

UT Nursery Crops Information Listserv. Members represent Tennessee nursery growers.

NC1186 Water Management and Quality for Ornamental Crop Production and Health Working

Group Listserv. Members of the NC1186 USDA working group from University research and extension, EPA, Horticulture Research Institute, U.S. National Parks Service, and USDA.

Programs/Presentations Featured-Print and Electronic Media

McClellan, M. Q&A: Amy Fulcher. The professor discusses her session, "Effective crop management in the nursery." Nursery Management. 31(6):52.
<http://www.nurserymag.com/digital/201506/files/41.html>

McDaniels, P. New study to model effects of southeastern climate change on water usage: Tennessee and Cumberland River Basins Focus of Multi-Institution Project. UTIA News and Announcements. April 9, 2015. <https://ag.tennessee.edu/news/Pages/NR-2015-04-WaterForAg.aspx>

McDaniels, P. Researchers to study effects of climate change on water usage. Common Ground: Conversations with the Chancellor.

McDaniels, P. Pre-register now for September 25 sustainable nursery irrigation workshop. UTIA News Release. September 9, 2014.

Associated Press. UT to offer online training for nursery producers. WATE.com. March 28, 2014.

McDaniels, P. Tennessee hosts regional nursery field event on systems-based pest management. UTIA News Release. October 15, 2013.

McClellan, M. Behind the scenes with Matt McClellan: Laser sprayers. Nursery Management Online. July 9, 2013.

High-tech horticulture. Greenhouse Management Online. March 17, 2013.

Plant and pest app for professionals and home gardeners. 2011-2012 Annual Report: Solutions. The University of Tennessee Institute of Agriculture.

Mobile app adds new high-tech tool to the gardener's toolbox. Everything Knoxville. 6(8):54.

Faculty appreciation week college kudos: College of Agricultural Sciences and Natural Resources. Tennessee Today. February 17, 2012.

Airblast sprayer workshop: Optimizing your sprayer for better coverage, better pest control, and greater savings. Tennessee Land, Life and Science. 8(2):26. Readership 17,000.
<http://www.agriculture.utk.edu/publications/lis/Vol8No2fallwinter/magazine.pdf>

Nielson, A. For tree farms, less is more when it comes to pesticides. UK Agricultural

Communications News Release. July 30, 2009.

<http://www.ca.uky.edu/news/?c=n&d=412>

Nielson, A. 2009. Buying and selecting trees and shrubs to replace those lost in the ice storm. UK Agricultural Communications Exclusive.

<http://warehouse.ca.uky.edu/agc/exclusives/exclusive.asp?year=2009&srchRadio=ANR>

Jackson, M. 2008. Big help for small crops. The Magazine 9(3):17.

McLean, T. 2007. Greenhouse-nursery industry heats up. The Magazine 8(1):2-5.

Winter workshop focuses on current and potential pests. UK Agricultural Communications News Release. February 15, 2006.

Rodda, K. 2006. Coast to coast with Kelli Rodda. Kentucky highlight - featured information from the Kentucky Nursery Update, NMPPro.

Putting integrated pest management to work in the nursery. UK Agricultural Communications News Release. June 8, 2005.

New IPM program aimed at nursery crop producers. UK Agricultural Communications News Release. April 30, 2003.

Pot-in-pot field day gives prospective growers look at production system. UK Agricultural Communications News Release. September 17, 2003.

Programs Featured-Video

AgDay TV, Farm Journal Media "Airblast sprayer workshop: Optimizing your sprayer for better coverage, better pest control, and greater savings" October 4, 2011.

Denney, C. 2011. "Airblast sprayer workshop" YouTube Video.

http://www.agriculture.utk.edu/news/VideoReleases/1106_nursery.htm

Growing Kentucky, KETKY "For tree farms, less is more when it comes to pesticides" September 19 and 26, 2009, Lexington, KY.

<http://www.ca.uky.edu/agc/video/growingkentucky/aug.htm>.

KET reaches 3.5 million viewers in eight states.

Extension on the Air, KETKY "Putting integrated pest management to work in the nursery" August, 2005. KET reaches 3.5 million viewers in eight states.

Home and Farm Show, WBKO "Best management practices workshop", "IPM: Practical

techniques for nursery production”, and “Getting into the nursery industry” February 9, 11, and 13, 2004, Bowling Green, KY. Program reaches 25 counties and approximately 6000 households.

Home and Farm Show, WBKO “Pot-in-pot production”, “IPM for nursery production”, and “Getting into the nursery industry” March 25, 27, and 29, 2003, Bowling Green, KY. Program reaches 25 counties and approximately 6000 households.

Other Resources and Creative Activity

UT-UK IPM Calendar for Shrub Production - 2013 (with M.S. student Whitney Yeary)

http://plantsciences.utk.edu/pdf/fulcher_IPM_shrub_calendar_FINAL.pdf

IPM Calendar for Deciduous Tree Production - 2009, 2008, 2007, 2005, 2004, 2003

<http://www.ca.uky.edu/HLA/Dunwell/IPMCalendar/IPMCalendar2008.html>

The UK Nursery Group Pour Thru Extraction Technique Protocol - 2004

<http://www.ca.uky.edu/HLA/Dunwell/PourThruExtract.html>

Nutrient Monitoring-Pour Thru Technique Recordkeeping Form - 2004

<http://www.ca.uky.edu/HLA/Dunwell/NutrientMonitoringForm.html>

Pot-in-Pot Nursery Production - 2003

Pot-in-Pot Installation Expenses – 2003

PROFESSIONAL DEVELOPMENT

National and Regional Conferences and Professional Meetings/Workshops

- UTIA Promotion and Tenure Workshop, May 19, 2015, Knoxville, TN
- IR-4 Food Use Workshop, September 22-23, 2015, Chicago, IL
- American Society for Horticultural Science, August 4-7, 2015, New Orleans, LA
- Southern Nursery Association Research Conference and Trade Show, July 21-22, 2015, Atlanta, GA
- It’s All About Water and Increasing Your Bottom Line. July 28, 2015, Grand Rapids, MI
- Cultivate’15, July 12, 2015. Columbus, OH
- IR-4 Food Use Workshop, September 9-10, 2014, Atlanta, GA
- Project Director Training, Southern Risk Management Education Center, August 12-13, 2014, Fayetteville, AR
- Southern Nursery Association Research Conference and Trade Show, July 22-23, 2014, Atlanta, GA
- American Society for Horticultural Science, July 28-31, 2014, Orlando, FL

- Seeley Summit, June 22-24, 2014, Chicago, IL
- UTIA Promotion and Tenure Workshop, May 20, 2014, Knoxville, TN
- IR-4 Food Use Workshop, September 17-18, 2013, Albuquerque, NM
- Southern Nursery Association Research Conference and Trade Show, August 5-6, 2013, Atlanta, GA
- IR-4 Southern Region State Liaison Meeting, August 20-21, 2013, Orlando, FL
- IR-4 Food Use Workshop, September 17-18, 2013, Albuquerque, NM
- American Society for Horticultural Science, Annual Conference, July 22-15, 2013, Palm Desert, CA
- NurseryWorks, July 17, 2013, Manhattan, KS
- UTIA Promotion and Tenure Workshop, June 7, 2013, Knoxville, TN
- Grantsmanship Seminar, October 23, 2012, Knoxville, TN
- IR-4 Food Use Workshop, September 11-12, 2012, St. Louis, MO
- American Society for Horticultural Science, Annual Conference, July 31- August 3, 2012 Miami, FL
- UTIA Promotion and Tenure Workshop, June 1, 2012, Knoxville, TN
- American Society for Horticultural Science, Annual Conference, September 25-28, 2011, Waikoloa, HI
- USDA NIFA Grant Workshop/Live webinar location, August 9, 2011, Knoxville, TN
- USDA Grant Writing Symposium, August 8, 2011, Knoxville, TN
- SUPER Foundations for Departmental Personnel, April 13, 2011, Knoxville, TN
- New Extension Employee Orientation Training, March 3-10, 2011, Knoxville, TN
- Southern Nursery Association Research Conference and Gulf States Trade Show, January 19-20, 2011, Mobile, AL
- International Horticultural Congress, August 22-27, 2010, Lisbon, Spain
- Southern Nursery Association Research Conference and Gulf States Trade Show, January 21-22, 2010, Mobile, AL
- American Society for Horticultural Science, Annual Conference, July 25-28, 2009, St. Louis, MO
- GreenSys, June 14-19, 2009, Quebec City, Quebec, Canada
- Southern Nursery Association Research Conference and Trade Show, February 12-13, 2009, Atlanta, GA
- Southern Nursery Association Research Conference and Trade Show, August 6-8, 2008, Atlanta, GA
- American Society for Horticultural Science, Annual Conference, July 21-24, 2008, Orlando, FL
- USDA Working Group NE 1017, Controlled Environments, June 11-12, 2008, Ithaca, NY
- Southern Nursery Association Research Conference and Trade Show, August 9-11, 2007, Atlanta, GA
- American Society for Horticultural Science, Annual Conference, July 16-19, 2007, Scottsdale, AZ

- Measurement Methods for Plants and Canopies: Water, Light, and Carbon, Pre-Conference Workshop ASA-CSSA-SSSA, November 11, 2006, Indianapolis, IN
- International Plant Propagators' Society, Eastern Region Conference, October 3-7, 2006, Grand Rapids, MI
- Southern Nursery Association Research Conference and Trade Show, August 9-12, 2006, Atlanta, GA
- LI-COR 6400 Introductory Course, February 6-8, 2006, Lincoln, NE
- Trees and Planting: Getting the Roots Right, November 10, 2005, Lisle, IL
- Southern Nursery Association Research Conference and Trade Show, August 10-12, 2005, Atlanta, GA
- Assessment of Pest Management Practices and Priorities for Container Tree Production in USDA Hardiness Zone 6-8, September 27-28, 2004, Biloxi, MS
- Southern Nursery Association Research Conference and Trade Show, August 10-14, 2004, Atlanta, GA
- The Farwest Show, August 26-28, 2004, Portland, OR
- International Plant Propagators' Eastern Region Meeting, August 10-14, 2004, Portland, ME
- Southern Nursery Association Research Conference and Trade Show, July 30-August 2, 2003, Atlanta, GA
- Southern Nursery Association Research Conference and Trade Show, July 31- August 3, 2002, Atlanta, GA
- SERA IEG-27 meeting, June 5-7, 2002, McMinnville, TN

Horticulture Tours and Courses

- East Tennessee Nursery Association Tour, October 22-24, 2014, Huntsville, AL
- East Tennessee Nursery Association Tour, October 22-24, 2013, Mills River, NC and Anderson, SC.
- Nursery and San Diego Botanical Garden Pre-Tour. American Society for Horticultural Science Annual Conference, July 21, 2013, San Diego, CA.
- East Tennessee Nursery Association Tour, October 16-18, 2012, Mills River, NC and Spartanburg and Roebuck, SC.
- Middle Tennessee Nursery Association Nursery Tour, September 24-25, 2012, McMinnville, TN.
- ASHS Annual Conference Nursery and Water Management Tour, Big Island Plant & Foliage, Green Point Nurseries, Akatsuka Orchid Gardens, September 24, 2011, Waikoloa, HI.
- Simply Flowers, Inc., August 7, 2007, Atlanta, GA.
- University of Kentucky Horticulture Club Tour, Oregon Nurseries: Carlton Plants, Monrovia Nursery, Iseli Nursery, Microplant Nurseries Inc., TREECO, A. McGill and Son Nursery, Buchholz and Buchholz Wholesale Nursery, J. Frank Schmidt and Son Nursery, Heritage Seedlings, August 16-19, 2005.

- Oregon Nursery Tour: A. McGill and Son Nursery, Buchholz and Buchholz Wholesale Nursery, Carlton Plants, Heritage Seedlings, J. Frank Schmidt and Son Nursery, John Holmlund Nursery, Leo Gentry Wholesale Nursery Inc., Microplant Nurseries Inc., Surface Nursery, August 25-28, 2004.
- Oregon Nursery Tour: Pacific Pot-in-Pot, Baileys Nursery, J. Frank Schmidt and Son Nursery, Carlton Plants, Buchholz and Buchholz Wholesale Nursery, Robinson Nursery, Sester Farms, Hans Nelson and Son Nursery, Heritage Seedlings, November 9-12, 2003.
- Ohio Nursery Tour: Sunleaf Nursery LLP, Klyn Nurseries, Inc., Willoway Nurseries, Inc., McKenzie Nursery Supply, July 24-26, 2002, Cleveland, OH.
- SERA IEG-27 Tour: Botanico, Inc., Stoner Nursery, Swan Mill Nursery, Shadow Nursery, June 5-7, 2002, McMinnville, TN.
- Tennessee Nursery Tour: Botanico, Inc., Odom Nursery, Mountain Creek Nursery, April 30, 2002, McMinnville, TN.
- University of Kentucky Horticulture Club Nursery and Botanical Garden Tour, New Zealand, May 7-22, 2001.
- Cooperative Center for Study in Britain, HORT 475, Great Gardens of Britain, July 9-August 13, 1992.

SERVICE

Service at Department, College, and University Levels

University of Tennessee, Department of Plant Sciences	Years of Service
December Graduation Representative	2014
Horticultural Weed Management position advisory committee	September 2013-present
Ag Day Committee (Contribute to departmental display, greet guests at Ag Day)	2011-present
Seminar Committee, member	2011-14
Chair	2013 (Spring)
UT Extension	
Leadership Team, Commercial Horticulture	2014
Work Group, Nursery Production	2014
UT Master Producer Program Oversight Promotion (rack card) Subcommittee,	2014-present
Consumer Horticulture Extension Specialist Search Committee	2014

UT Master Producer Program Oversight Committee	2013-present
Warren Co. Agent Search Committee	2013
Extension Publication Reviewer	2011-present
Treated Wood on Organic Farms	2013
Interpreting Water Quality Test Results	2012
Good Agricultural Practices (GAP) Certification in Tennessee	2012
Turfgrass Weed Management Fact Sheet Ground Ivy (<i>Glechoma hederacea</i>)	2011
Turfgrass Weed Management Fact Sheet Weed Control in Centipedegrass (<i>Eremochloa ophiuroides</i>)	2011

UTIA

IR-4 Liaison	2011-present
UT-TSU Collaboration Team	2011
Variety Trial Release Committee, assisted committee	August 22, 2011

Multi-Institutional

Tennessee Master Nursery Producer Program Committee, Chair, Coordinator for grant, and live and online course	2011-2013
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Service to Other Institutions

Service to Other Academic and Research Institutions	Years of Service
Internal Publication Reviewer	
Owen, J., A. LeBude, M. Chappell and T. Hoskins. Virginia Polytechnic and State University. Advanced Irrigation Management for Container-grown Ornamental Crop Production	2014
DeKoff, J. Tennessee State University. Centennial Park Tree Identification Guide	2014
Boyer, C. and E. Blythe. Kansas State University Extension Publication. Root-promoting products for commercial cutting propagation of nursery crops (Including alternatives to K-IBA).	2013
Chappell, M., K. Braman, J. Williams-Woodward, and G. Knox. University of Georgia. Optimizing plant health and pest management of <i>Lagerstroemia spp.</i> in commercial production and landscape situations in the southeastern U.S.: A review.	2012

<u>Journal of Environmental Horticulture.</u>	
Seagraves, B., C. Redmond, and D. Potter. UK Department of Entomology. Resistance of maple (<i>Acer</i>) species and cultivars to arthropod pests of production nurseries. Internal review prior to submission to Pest Management Science.	2012
Chappell, M., B. Pennisi, G. Wade, and C. Waltz. University of Georgia Extension Publication. Tips for Saving Water in the Landscape.	2011
Other Service	
UK Department of Horticulture, Horticulture Research Farm Planning Committee	2007-2010
UK Department of Horticulture, Faculty Search Committee	2006-2007
Kentucky Cooperative Extension Service, Extension Agent Mentor	2002, 1998
Kentucky Cooperative Extension Service, Pennyrile Area Horticulture Contact	1998-2002
Kentucky Cooperative Extension Service, Statewide Master Gardener Conference Planning Committee	2001-2002
Kentucky Cooperative Extension Service, Agent Training and Support Committee	2001

Service to Discipline

Leadership

American Society for Horticultural Science

Co-coordinator and moderator: Impact of utilizing biodegradable containers in ornamental crop production systems workshop, July 29, 2014, Orlando, FL.

Southern Nursery IPM (SNIPM) Working Group

- Chair, 2009-2014
- Organized SNIPM Working Group Meeting, September 24, 2012, Hendersonville, NC
- Co-organized SNIPM Working Group Meeting, July 25-27, 2011, Clemson, SC
- Organized SNIPM Working Group Meeting, September 20, 2010, Hendersonville, NC
- Southern Nursery IPM Working Group, co-organized, July 30-31, 2009, Mills River, NC

Journal Refereeing

2015

Peer reviewer of manuscripts submitted for the *ASABE/IA Irrigation Symposium: A Tribute to the Career of Terry Howell, Sr.* (2) and *Horticulturae* (1)

2014

Peer reviewer of manuscripts for *HortScience* (2) and *Journal of Plant Growth Regulation* (1)

2013

Peer reviewer of manuscripts for *Journal of Environmental Horticulture* (1), *HortTechnology* (1), *HortScience* (1)

2012

Peer reviewer of manuscripts for *HortTechnology* (2) and *HortScience* (1)

2011

Peer reviewer of manuscripts for *HortTechnology* (1) and *HortScience* (1)

Peer Review

Mobile Weed App – mobile device application, 2013

Membership and Active Participation in Professional Societies

Disciplinary

Organization	Years of Service
American Society of Agricultural and Biological Engineers	2013 to present
American Nursery and Landscape Association	2013 to present
International Society for Horticultural Science	2012 to present
Tennessee Nursery and Landscape Association	2011 to present
East Tennessee Chapter, Nursery and Landscape Association	2011 to present
Middle Tennessee Nursery and Landscape Association	2011 to present
Southern Chapter, International Society of Arboriculture	2011 to present
Middle Tennessee Nursery and Landscape Association	2011 to present
Southern Nursery Association	2011 to present
International Plant Propagators' Society	2008 to present
American Society for Horticultural Science	2007 to present
International Society of Arboriculture	2001 to present
Certified Arborist	2001 to present
Kentucky Arborist Association	2001 to 2010
Kentucky Association of County Agricultural Agents	1997-2001
National Association of County Agricultural Agents	1997-2001

Honorary

Organization	Year
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Pi Alpha Xi, Honor Society for Floriculture, Landscape Horticulture, and Ornamental Horticulture	
NCSU chapter	1996
Plant Sale Chairperson	1996
Phi Kappa Phi, National Honor Society, WKU	1993
Agriculture Ambassador, WKU	1993
Golden Key National Honor Society,	1993
Alpha Zeta, Agriculture Honor Society, WKU	1992

Service to Public and Private Organizations or Institutions Using Professional Expertise

- Reviewer, Horticulture Research Institute grant proposals, 2014, 2015
- External Reviewer, USDA promotion for Dr. Heping Zhu. 2013

Service to Government Agencies at the Federal, State, and Local Levels

- USDA, Working Group NC1186. Water Management and Quality for Ornamental Crop Production and Health, Maintain Listserv, 2011-present
- USDA, Working Group NC1186. Water Management and Quality for Ornamental Crop Production and Health, Chair, 2013
- USDA, Working Group NC1186. Water Management and Quality for Ornamental Crop Production and Health, Vice Chair, 2012
- USDA, Working Group NC1186. Water Management and Quality for Ornamental Crop Production and Health, Secretary, 2011

Service to the Nursery and Landscape Industry

- Co-editor, Tennessee Nursery and Landscape Association, Tennessee Green Times, quarterly publication, 2011 to present
- Co-organizer, Tennessee Nursery and Landscape Association, Winter Education, 2012 (for 2013)
- Judge, Bryson L. James Student Research Competition: 2010, 2013
- Organizer or Co-Organizer, Kentucky Nursery and Landscape Association, Kentucky Landscape Industry Winter Education Conference, 2008-2010, 250-300+ attendees
- International Plant Propagators' Society, chair: Eastern Region Area Meeting, 2007, 100 attendees

Service to Community Affairs as a Representative of the University of Tennessee

- Metropolitan Nashville Landscape Guidelines and Best Management Practices, reviewed 2013

Plant Donations

2015

- Donated 73 1- and 3-gallon plants to the East Tennessee Nursery Association plant sale (approximate retail value \$1,500)

2013

- Donated 100 3-gallon plants to the East Tennessee Master Gardener Association (approximate retail value \$3,000)
- Donated 50 plants to The UT Arboretum Society Plant Sale (approximate retail value \$750)
- Donated 50 3-gallon plants to the East Tennessee Nursery Association plant sale (approximate retail value \$1,000)

2012

- Donated 50 plants 2012, UT Gardens plant sale (approximate retail value \$750)
- Donated 100 3-gallon plants to the East Tennessee Master Gardener Association (approximate retail value \$3,000)

2011

- Donated 50 plants to The UT Arboretum Society Plant Sale (approximate retail value \$750)
- Donated 50 plants 2011, UT Gardens plant sale (approximate retail value \$750)

AWARDS AND RECOGNITION

Award	Year
Professional	
Southern Region-ASHS Blue Ribbon Communication Award. "IPM for Shrubs in Southeastern US Nursery Production: Volume 1" (Awarded to working group. I coauthored 2 chapters.)	2015
ASHS Extension Division Education Materials Award. "IPM for Shrubs in Southeastern US Nursery Production: Volume 1" (Awarded to working group. I coauthored 2 chapters.)	2015
Outstanding New Extension Worker Award	2014
Southern Region IPM Center, Bright Idea Award (awarded to working group)	2014
Quest Scholar	2014
Dutch and Marilee Cavender Outstanding Extension Publication Award	2013
TNLA Outstanding Committee Member	2013
Recognized during Faculty Appreciation Week	2012
UK Outstanding Extension Associate Award	2009

Southern Region IPM Center, Future Leader Award	2009
Full scholarship awarded by the Northern Kentucky Urban and Community Forestry Council to attend the National Urban Forestry Conference, Seattle, WA	1999
National Association of County Agricultural Agents Communication Award, National Winner, Direct Mail Piece	1998
National Association of County Agricultural Agents Communication Award, National Finalist, Individual Newsletter	1998

Educational

First Place, Ph.D. Section, The Bryson L. James Student Research Competition, The Southern Nursery Association	2008
Third Place, M.S. Section, The Bryson L. James Student Research Competition, The Southern Nursery Association	1997

Certifications

International Society of Arboriculture Certified Arborist #KY0376	
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