**Dr. Robert L. Geneve**

Abbreviated Vitae

Professor

University of Kentucky, Department of Horticulture

N‑404b Plant Science Building, 1405 Veterans Drive

Lexington, KY 40546

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**EDUCATION**

**Ph.D.** Horticulture, University of Minnesota, 1982-1985.

**M.S.** Horticulture, Pennsylvania State University, 1977-78.

**B.S.** Horticulture, University of Maryland, 1973-77.

**PROFESSIONAL ACTIVITY**

**Editorship**

Associate editor – Seed Technology. 2008 to present.

Editorial Board – Propagation of Ornamental Plants. 2003 to present.

Science Editor, North American - Scientia Horticulturae. 2001 to 2008.

Editorial Advisory Board - Scientia Horticulturae. 1997 to 2001.

Associate editor – HortScience. 1994 to 1997.

Associate editor - Scientia Horticulturae. 1994 to 1997.

**Honors**

Fellow in the International Plant Propagators’ Society, Eastern Region; elected 2003.

Fellow in the American Society for Horticultural Science; elected 2005.

George E. Mitchell Jr. Award Outstanding Faculty Service to Graduate Students; 2006.

# Profession Society Officer

International Plant Propagators’ Society International Board member, 2012 to present.

International Plant Propagators’ Society Eastern Region, President, 2011.

International Plant Propagators’ Society Eastern Region, Vice President, 2008-10.

IPPS, Eastern Region Foundation Board member 2008 to present.

International Plant Propagators’ Society Eastern Region, Board of Directors 1999 to 2001.

# PUBLICATIONS

**Peer-reviewed Research Publications** (since 2007)

Geneve, R.L., D.F. Hildebrand, T.D. Phillips, M. AL-Amery and S.T. Kester. 2017. Stress influences seed germination in mucilage-producing chia. Crop Science 57:2160-2169.

Nambuthiri,S., E. Hagen, A. Fulcher and R.L. Geneve. 2017. Evaluating a physiological-based, on-demand irrigation system for container-grown woody plants with different water requirements. HortScience 52:251-257.

Geneve, R.L., S. Nambuthiri, E. Hagen, and A. Fulcher. 2016. A new irrigation application efficiency calculation for sprinkler irrigated container plants grown under sensor based irrigation scheduling. Acta Horticulturae 1112:17-22.

Jacobsen, K.L., V.M. Anderson, D.D. Archbold, R.L. Geneve, and D.L. Ingram. 2016. Fertility source and drought stress effects on plant growth and essential oil production of *Calendula officinalis*. HortScience 51:342-348.

Nambuthiri,S., A. Fulcher, A. Koeser, R.L. Geneve and G. Niu. 2015. Moving towards sustainability with alternative containers for greenhouse and nursery crop production: A review and research update. HortTechnology 25:8-16.

Brumfield, R.G., A.J. DeVincentis,X. Wang, R.T. Fernandez, S. Nambuthiri, R.L. Geneve, A.K. Koeser, G. Bi, Y. Sun, G. Niu, D. Cochran and A. Fulcher. 2015. Economics of utilizing alternative containers in ornamental crop production systems. HortTechnology 25:17-25.

Evans, M.R.,A. Koeser, G. Bi, S. Nambuthiri, R. L. Geneve, K. Jacobsen, S. Lovell, and R. Stewart. 2015. Impact of biocontainers with and without shuttle trays on water use in the production of a containerized ornamental greenhouse crop. HortTechnology 25:35-41.

Wang, X., R.T. Fernandez, B.M. Cregg, R. Auras, A. Fulcher, G. Niu, Y. Sun, G. Bi, S. Nambuthiri and R.L. Geneve. 2015. Multi-state evaluation of plant performance in plastic containers and alternative nursery containers. HortTechnology 25:42-49.

Nambuthiri, S., R.L. Geneve, R.T. Fernandez, G. Bi, G. Niu, and X. Wang. 2015. Substrate temperature in plastic and alternative nursery containers. HortTechnology 25:50-56.

Li, T., G. Bi, G. Niu, S. Nambuthiri, R.L. Geneve, X. Wang, R.T. Fernandez, A. Fulcher, Y. Sun, X. Zhao, R.J. Stewart. 2015. Feasibility of using biocontainers in pot-in-pot system for nursery production of river birch*.* HortTechnology 25:57-62.

Hagen, E, S. Nambuthiri, A. Fulcher, and R.L. Geneve. 2014. Comparing substrate moisture-based daily water use and on-demand irrigation regimes for oakleaf hydrangea grown in two container sizes. Scientia Horticulturae 179:132-139.

Caliskan, S., Kester, S.T. and R.L. Geneve. 2014. A laboratory exercise in physiological seed dormancy using eastern redbud (*Cercis canadensis*). HortTechnology 24:403-406.

Gama-Arachchige, N.S., J.M. Baskin, R.L. Geneve and C.C. Baskin. 2013. Identification and characterization of 10 new water gaps in seeds and fruits with physical dormancy and classification of water-gap complexes. Annals of Botany 112:69-84.

Wood, L.A., S.T. Kester, and R.L. Geneve. 2013. The physiological basis for ethylene-induced dormancy release and germination in three *Echinacea* species (*E.* *purpurea*, *E.* *tennesseensis*, and *E.* *simulata*). Scientia Horticultureae 156:67-72.

Gama-Arachchige, N.S., J.M. Baskin, R.L. Geneve and C.C. Baskin. 2013. Quantitative analysis of the thermal requirements for stepwise physical dormancy-break in seeds of winter annual *Geranium carolinianum* (Geraniaceae). Annals of Botany 111:849-858.

Finneseth, C.H. and R.L. Geneve. 2012. Physical enhancement improves seed lot quality in eastern gamagrass (*Tripsacum dactyloides*). Acta Horticulturae 938:69-75.

Fulcher, A. and R.L. Geneve. 2012. Using the relationship between container substrate moisture and photosynthesis to schedule irrigation in *Hibiscus rosa-sinensis*. Scientia Horticultureae 138:221-226.

Gama-Arachchige, N.S., J.M. Baskin, R.L. Geneve and C.C. Baskin. 2012. The autumn effect: timing of physical dormancy break in seeds of two winter annual species of Geraniaceae by a stepwise process. Annals of Botany 110:637-651.

Finneseth, C.H. and R.L. Geneve. 2012. A standard laboratory method to assess purity and germination in eastern gamagrass seed lots. Seed Technology 34:89-109.

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

Jamboonsri, W., T. D. Phillips, R. L. Geneve, J.P. Cahill and D.F. Hildebrand. 2012. Extending the range of an ancient crop; a new ω3 source. Genetic Resources and Crop Evolution 59:171-178.

Paparozzi, E.T., A. W., Kimberly, R.L.Geneve, H. Hatterman-Valenti, C. Haynes, H. Kraus, C. Mc Kenney and P. Pitts. 2011. The AG\*IDEA alliance and horticulture graduate certificate programs. HortTechnology 21:688-691.

Gama-Arachchige, N.S., J.M. Baskin, R.L. Geneve and C.C. Baskin. 2011. Acquisition of physical dormancy and ontogeny of the micropyle-water gap complex in developing seeds of *Geranium carolinianum* L. (Geraniaceae). Annals of Botany 108:51-64.

Fulcher, A., T. Steele, 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.

Gama-Arachchige, N.S., J.M. Baskin, R.L. Geneve and C.C. Baskin. 2010. Identification and characterization of the water gap in physically dormant seeds of Geraniaceae, with special reference to *Geranium carolinianum* L. Annals of Botany 105:977-990. Invited as part of a special issue section on seeds “The Capacity of Seeds to Germinate and Survive”.

Jayasuriya , K.M.G., J. M. Baskin, R. L. Geneve, and C. C. Baskin. 2009. Sensitivity cycling and mechanism of physical dormancy break in seeds of *Ipomoea hederacea* (Convolvulaceae). International Journal of Plant Sciences 170:429–443. 2009.

Geneve, R.L. 2009. Physical seed dormancy in selected Caesalpinioid legumes from eastern North America. Propagation of Ornamental Plants 9:129-134.

Jayasuriya, K.M.G., J.M. Baskin, R.L. Geneve, and C.C. Baskin. 2009. A proposed mechanism of physical dormancy break in sensitive and insensitive seeds of *Ipomoea lacunosa* (Convolvulaceae). Annals of Botany 103:433-445.

Jayasuriya , K.M.G., J. M. Baskin, R. L. Geneve, and C. C. Baskin. 2009. Phylogeny of seed dormancy in Convolvulaceae, subfamily Convolvuloideae (Solanales). Annals of Botany 103:45-63.

Jayasuriya , K.M.G., J. M. Baskin, R. L. Geneve, C. C. Baskin, and C. Chien. 2008. Physical dormancy in seeds of the holoparasitic angiosperm *Cuscuta australis* (Convolvulaceae, Cuscuteae): Dormancy breaking requirements, anatomy of the water gap and sensitivity cycling. Annals of Botany 102: 39 - 48.

Geneve, R.L., L. Wood, and S.T. Kester. 2008. The relationship between ethylene production and dormancy release in *Echinacea* seeds. Acta Horticulturae 771:33-35.

Geneve, R.L. 2008. Vigor testing for small-seeded horticultural crops. Acta Horticulturae 782:77-82.

Klein, J.D., L.A. Wood, and R.L. Geneve. 2008. Hydrogen peroxide induced germination in gama grass (*Tripsacum dactyloides*). Acta Horticulturae 782:93-98.

Geneve, R.L. and \*M. Dutt. 2008. Using sequential images to study seed germination and dormancy. Propagation of Ornamental Plants 8:13-16.

Geneve, R.L., S.T. Kester, and K.W. Pomper. 2007. Autonomous shoot production in pawpaw [*Asimina triloba* (L.) Dunal] on plant growth regulator free media. Propagation of Ornamental Plants 7:51-56.

Jayasuriya, K.M.G., J.M. Baskin, R.L. Geneve, and C.C. Baskin. 2007. Seed development in *Ipomoea lacunosa* (Convolvulaceae), with particular reference to anatomy of the water gap. Annals of Botany 100:459 - 470.

Jayasuriya, K.M.G., J.M. Baskin, R.L. Geneve, and C.C. Baskin. 2007. Morphology and anatomy of physical dormancy in *Ipomoea lacunosa*: Identification of the water gap in Convolvulaceae (Solanales). Annals of Botany 100:13-22.

Dutt, M. and R.L. Geneve. 2007. Time to radicle protrusion does not correlate with early seedling growth in individual seeds of impatiens and petunia. Journal of the American Society for Horticultural Science 132:423-428.

Geneve, R.L., S.T. Kester, and K.W. Pomper. 2007. Cytokinin habituation for autonomous shoot initiation in pawpaw (*Asimina triloba*). Acta Horticulturae 738:371-374.

**Books** (since 2011)

Davies, F. T. Jr., R. L. Geneve and Sandra B. Wilson. 2018. Hartmann and Kester’s Plant Propagation: Principles and Practices. Boston: Prentice-Hall. Ninth edition.

Hartmann, H.T., D.E. Kester, F. T. Davies, Jr., and R. L. Geneve. 2011. Hartmann and Kester’s Plant Propagation: Principles and Practices. Prentice-Hall, Inc., Englewood Cliffs, New Jersey. Eighth edition.

**Book Chapters** (since 2005)

Nambuthiri, S., A. Fulcher, and R.L. Geneve. 2015. Microirrigation systems for pot-n-pot nursery production. In: Recent Advances in Sustainable Micro Irrigation. Vol. 4.Management, Performance, and Applications of Micro Irrigation Systems.M.R. Goyal (ed.). Apple Press, Waretown, NJ. Chapter 21: pp. 295-309.

Geneve, R.L. 2010. Propagation from non-meristematic tissues - Organogenesis. In: Plant Cell Culture, Development and Biotechnology. R.N. Trigiano and D. J. Gray (eds.). CRC Press, LLC, Boca Raton, Florida. pp. 243-256.

Geneve, R.L., \*M. Dutt, and A.B. Downie. 2006. Development of a sequential digital imaging system for evaluating seed germination. In: S. Navie, S. Adkins and S. Ashmore (eds.). Seeds: Biology, Development and Ecology. CAB International. London. p.p.315-323.

Geneve, R.L. 2005. Vigor testing in flower seeds. In: M.B. McDonald and F. Kwong (eds.). Flower Seeds, Biology and Technology. CAB International, London. p.p. 311-332.

**Proceedings and Industry Publications** (since 2007)

Geneve, R.L., E.W. Janes and S.T. Kester. 2016. Cardinal temperatures and thermal time for seed germination of industrial hemp. Combined Proceedings International Plant Propagators’ Society 66:in press.

Geneve, R.L. 2015. An introduction to pot-in-pot nursery irrigation. Combined Proceedings International Plant Propagators’ Society 65:in press.

Nambuthiri,S., A. Fulcher, E. Hagen, and R.L. Geneve. 2015. Using light integrals and vapor pressure deficit to simulate irrigation scheduling for container nursery production. In: American Society of Agricultural and Biological Engineers Symposium on Emerging Technologies for Sustainable Irrigation. Paper # 2143968.

Nambuthiri,S., A. Fulcher, R. Geneve, G. Niu, C. Cochran, S. Verlinden, and R. Conneway. 2015. Pick your pot... are container alternatives right for your operation? Tennessee Green Times. 116(2):18-20.

Nambuthiri,S., A. Fulcher, R. Geneve, G. Niu, C. Cochran, S. Verlinden, and R. Conneway. 2015. Pick your pot. Nursery Management 31(3):10-14.

Geneve, R.L. 2014. Nursery container irrigation. Combined Proceedings International Plant Propagators’ Society 64: in press.

Geneve, R.L. 2014. Successful cutting propagation is rooted in the basics. Combined Proceedings International Plant Propagators’ Society 64: in press.

Nambuthiri,S., R. Geneve and A. Fulcher. 2014. Evaluating irrigation scheduling based on daily evapo-transpiration or plant demand of container grown woody plants. Proceedings of Southern Nursery Association Research Conference 58: 290-292.

Nambuthiri, S., R. Geneve,and S. Kester. 2014. Kentucky Water Resources Research Institute, Annual Symposium, Lexington. March 20, 2014.

Nambuthiri,S., R. Geneve and A. Fulcher. 2013. Evaluating irrigation scheduling based on daily evapo-transpiration or plant demand of container grown woody plants. Proceedings of Southern Nursery Association Research Conference 58:290-292.

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. 2013. Pulp or plastic. American Nurseryman, Feb. pp. 20-24.

Geneve, R.L. 2013. How Plant Hormones Work - Auxin. Combined Proceedings International Plant Propagators’ Society 63:243-248.

Mylor, K., S. Holton, **R.L. Geneve**, and S. Calýskan 2014. Comparison of physical, acid, and hot water scarification on seed germination in eastern redbud. Acta Horticultarae 1055:347-349.

Geneve, R.L. 2012. Seed dormancy - Give your seeds a wake-up call. Combined Proceedings International Plant Propagators’ Society 62:243-248.

Hagen, E., S. Nambuthiri, A. Fulcher, and **R. Geneve**. 2012. Comparing substrate moisture-based daily water use and on-demand irrigation regimes for oakleaf hydrangea plants grown in two container sizes. Combined Proceedings International Plant Propagators’ Society. 62:161.

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. 2012. Assessing biocontainers and a sustainable irrigation regime for the US nursery industry. Proceedings of Southern Nursery Association Research Conference 57:73-77.

Nambuthiri, S., R. Geneve, T. Fernandez, A. Fulcher, A. Koeser, G. Bi, M. Evans, G. Niu, N. Pershey, R. Stewart, S. Verlinden, and X. Wang. 2012. Substrate heat buildup and evaporation rate differs between plastic and alternative one gallon nursery containers. Proceedings of Southern Nursery Association Research Conference 57: 60-62.

Geneve, R.L. 2010. Morphological characteristics of seeds with physical dormancy. Combined Proceedings International Plant Propagators’ Society 60: 610-613.

Stevens, M.E., S.T. Kester and R.L. Geneve. 2009. Adventitious root formation in poplar (*Populus*) intermodal stem cuttings grown in vitro. Combined Proceedings International Plant Propagators’ Society 59: 529-532.

Steele, T., A. Fulcher, R. Gates and R.L. Geneve. 2009. Designing a growth chamber to monitor transpiration. Proceedings of Southern Nursery Association Research Conference 54:111-114.

Fulcher, A. and R.L. Geneve. 2009. *Cornus*, gas exchange, and drought. Proceedings of Southern Nursery Association Research Conference 54:22-27.

Fulcher, A., R.L. Geneve, J. Buxton, and R. Gates. 2008. The Relationship between photosynthetic activity, container moisture and growth in *Hibiscus rosa-sinensis* L. Proceedings of Southern Nursery Association Research Conference 53:549-552.

Poston, A., A. Fulcher, W. Dunwell, L. Dougherty, and R.L. Geneve. 2008. Fascination increases growth of ‘Rudy Haag’ burning bush during container production. Proceedings of Southern Nursery Association Research Conference 53:501-505.

Geneve, R.L. and M. Dutt. 2008. A closer look at seed germination and dormancy. Combined Proceedings International Plant Propagators’ Society 58: 561-565.

Senn, M., A. Fulcher, and R.L. Geneve. 2008. Effect of physical manipulation and plant growth regulator application on branching of oak, linden, and Kentucky coffeetree. Combined Proceedings International Plant Propagators’ Society 58: 399-402.

Stolz, S., J. Beale, L. Dougherty, S. Long, A. Fulcher, and R. Geneve. 2007. Biofungicide and conventional control of *Rhizoctonia solani* in a container production system. Proceedings of Southern Nursery Association Research Conference 52:289-292.

**Professional Presentations** (since 2007)

International Plant Propagator’s Society – South Africa region annual meeting. 2017. (a) Flower morphology and pollination. (b) Seed vigor and germination. Tzaneen, South Africa.

The 31th International Seed Testing Association Seed Congress. 2016. The involvement of enclosing maternal tissue layers in seed dormancy. Tallinn, Estonia.

International Plant Propagator’s Society – New Zealand region annual meeting. 2016. Pot-in-pot nursery production. Christchurch, New Zealand.

International Plant Propagator’s Society – New Zealand region annual meeting. 2016. Flowers are magic – Pollination related adaptations in floral morphological. Christchurch, New Zealand.

University of Florida. 2016. Physical seed dormancy. Departmental seminar. Gainesville, Florida.

Texas A&M University. 2015. Seed germination in an ancient crop, Chia (*Salvia*): A Sticky situation.

International Horticulture Congress. 2014. Irrigation application efficiency during overhead irrigation of container- grown nursery crops under sensor based irrigation scheduling. Brisbane, Australia.

International Plant Propagator’s Society – South Africa region annual meeting. 2014. Container nursery irrigation. Johannesburg, South Africa.

International Plant Propagator’s Society – South Africa region annual meeting. 2014. Successful cutting propagation is rooted in the basics. Johannesburg, South Africa.

International Plant Propagator’s Society – Eastern region annual meeting. 2013. How plant hormones work. Chicago, IL.

The 30th International Seed Testing Association Seed Congress. 2013. A comparison of mucilage production in several members of the Lamiaceae. Antalya, Turkey.

International Plant Propagator’s Society – Eastern region annual meeting. 2012. Seed dormancy, Give your plants a wakeup call. Philadelphia, PA.

The 6th International Symposium on Seed, Transplant and Stand Establishment of Horticultural Crops. Seed germination and mucilage production in chia (*Salvia hispanica*). Brazilia, Brazil. 2012.

International Plant Propagator’s Society – Southern region annual meeting. 2010. Searching for the water gap in seeds with physical dormancy. Raleigh, NC.

Catholic University, Santiago Chile. 2010. Advances in seed and cutting propagation.

Twenty Eighth International Horticulture Congress. Invasive woody plants in the nursery industry – a USA perspective. 2010. Lisbon, Portugal

New England Greenhouse Conference. 2008. Greenhouse seed germination. Boston, MA.

Southern Region of the International Plant Propagators’ Society. 2008. A closer look at seed germination. Charlottesville, VA.

Farwest Nursery Conference. Portland, OR. 2008. Propagation systems for greenhouse.

Fifth International Conference on the Propagation of Ornamental Plants. 2007. Using sequential digital imaging to study seed germination. Sofia, Bulgaria.

American Society for Horticultural Science Annual Meeting. 2007. Seed labs for plant propagation. In: Demonstration of Laboratories Used in Teaching Plant Propagation workshop. Phoenix, AZ.

Volcani Institute. 2007. Seed vigor in small seeded crops. Israel.

**GRANT AWARDS**

**Successful Grants**

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| **Year** | **Funding Source** | **Project** | **Amount** |
| 2017 | Horticultural Research Institute | Developing a modified hydroponic stock plant system for minicuttings of difficult-to-root nursery crops | $18,000 |
| 2016 | The Food Connection at UK Student Opportunity Grant | Sustainable production of living organic container-grown kitchen herbs. | $4,200 |
| 2014-16 | Horticultural Research Institute and Kentucky Landscape Industries | Optimizing plant growth and water use by modifying cyclic irrigation timing in container nursery production. PIs: Robert Geneve, Dewayne Ingram and Susmitha Nambuthiri. | $37,800 |
| 2013-15 | Kentucky Landscape Industries | Impacts of cyclic irrigation on plant growth in a pot-in-pot nursery production system.  PIs: Robert Geneve, Dewayne Ingram and Susmitha Nambuthiri. | $6,500 |
| 2012 | UK College of Agriculture, Food and Environment Teaching Innovation and Incentive Fund | Development of a distance education course in Advanced Plant Propagation | $5,000 |
| 2012-13 | Kentucky Landscape Industries | Comparison of photosynthesis-based irrigation scheduling with daily water replacement for nursery container production. | $3,500 |
| 2011-12 | Kentucky Landscape Industries | Comparison of photosynthesis-based irrigation scheduling with daily water replacement for nursery container production | $3,500 |
| 2010-13 | USDA - SCRI | Impact and social acceptance of selected sustainable practices in ornamental crop production. Co-PI. | $1,548,793  ($273,345 UK portion) |
| 2007-9 | Kentucky Landscape Industries | Promoting post-rooting shoot growth in Rudy Haag burning bush cuttings. | $6,000 |
| 2007-8 | New Crop Opportunity Center | Rudy Haag Burning Bush as a Non-invasive Alternative to  Current Burning Bush Cultivars for Kentucky Nursery Production. | $65,000 |
| 2006-8 | New Crop Opportunity Center | Optimizing Pot-In-Pot Nursery Production for Kentucky Growers. | $45,914 |
| 2006-7 | Kentucky Landscape Industries | Container production of Rudy Haag burning bush. | $3,500 |

**TEACHING**

**Administration –** Co-Undergraduate Studies Director for Horticulture, Plant and Soil Science program 2007 to present.

**Courses**

**PLS 320 – Woody Plant Materials**, 4 credits. 2009; 2011 to present. This is a blended course with lectures on-line and two lab sections.

**PLS 440** - **Plant Propagation**, 3 credits. 1991 to present. This course has two one hour lectures and one three hour lab.

**PLS 490** – **Topics in Plant and Soil Science** (Capstone, HPLS Science option). 2002 – present.

**PLS 622/623** - **Physiology of Plants**, co-teach (6 lectures), 3 credits. 1990 to present.

**Graduate Advising** (since 2007)

Major Advisor

Veronda Lewis. 2016 to present. Ph.D. student. Stock plant management for minicuttings.

Cynthia Finneseth. 2010. Ph.D. student. Evaluation and enhancement of seed lot quality in eastern gamagrass (*Tripsacum dactyloides*).

Amy Fulcher. 2010. Ph.D. student. Modeling water use in nursery crops.

Laura Woods. 2007. M.S. student. Relationship between ethylene and seed dormancy release in *Echinacea* species.

Amy Poston. 2007. M.S. student. Cutting propagation and container production of Rudy Haag burning bush (*Euonymus alatus*) ‘Rudy Haag’.

**Undergraduate research projects** (since 2007)

Tyson Gregory. 2017. Foliar application of auxin for cutting propagation. Selected for a travel grant to present a poster at the 2016 Eastern Region International Plant Propagator’s annual meeting in Grand Rapids, Michigan.

Bridget Reed. 2016. Organic greenhouse production of basil as a living herb crop. Presented in the 2016 Undergraduate Student competition at the American Society for Horticultural Sciences annual conference in Atlanta, GA. Supported by the Food Connection Student Opportunity grant.

Evan Janes. 2016. Developing a vigor test for hemp. Selected for a travel grant to participate in the Student Oral Presentation competition at the 2016 Southern Region International Plant Propagator’s annual meeting in Virginia Beach, VA. His paper was accepted and will be included in the conference proceedings published in 2017.

Sarah Newman. 2015. The Effect of allelopathic properties in *Tripsacum dactyloides* on the growth of *Cynodon dactylon.*

Sarah Holton. 2013. Physical dormancy in eastern redbud seed. Presented at the 2013 Eastern Region International Plant Propagators annual meeting in Chicago, IL. Presented at the 2014 National Conference on Undergraduate Research, Lexington KY.

Alexis Amorese. 2012. Somatic embryogenesis in blue ash.

Micah Stevens. 2009. Adventitious root formation in poplar (*Populus)* internodal stem cuttings grown in vitro. Presented at the Southern Region International Plant Propagators annual meeting in Biloxi, MS. He was the second place winner in the student competition. Poster presentation in 2010 at the Twenty Eighth International Horticulture Congress, Lisbon, Portugal. Publication in 2009, Adventitious root formation in poplar (*Populus*) intermodal stem cuttings grown in vitro. Combined Proceedings International Plant Propagators’ Society 59: 529-532.

Theo Steele. 2009. Designing a growth chamber to monitor transpiration. Presentation in 2009 at GreenSys, Quebec, Canada. Presentation and publication in 2009 at SNA conference, Atlanta GA; Designing a growth chamber to monitor transpiration. Proceedings of Southern Nursery Association Research Conference 54:111-114.

Michelle Senn. 2008. Treatments to induce branching in three nursery trees. Presentation and publication in 2008 at the ER-IPPS meeting. Effect of physical manipulation and plant growth regulator application on branching of oak, linden, and Kentucky coffeetree. Combined Proceedings International Plant Propagators’ Society 58: 399-402.

Leah Dougherty. 2007. Biological control of *Rhizoctonia* in dogwood container production.

Chlodys Johnstone. 2007. Impact of Fascination on shoot re-growth in *Euonymus* cuttings.

Sarah Stoltz, 2007. Evaluation of *Trichoderma* based fungicides for control of *Rhizoctonia* in dogwood plants grown in containers. Presentation and publication in 2007at the at SNA conference, Atlanta GA; Biofungicide and conventional control of *Rhizoctonia solani* in a container production system. Proceedings of Southern Nursery Association Research Conference 52:289-292.

**Student study tours** (since 2007)

2017 – Cuba

2016 – Peru

2015 – Ecuador and Galapagos Islands

2014 – Costa Rica

2013 – Guatemala, Belize and Mexico

2010 – California

2009 – Costa Rica

2008 – East Coast (Virginia to Maine) and Canada (Quebec and Montreal)

2007 – Japan