

## Dr. Robert L. Geneve

**Office:** Professor  
Department of Horticulture  
N-318 Ag. Science Center N.  
Lexington, KY 40546  
Phone: 606-257-8610  
E-Mail: RGENEVE@uky.edu

### EDUCATION

- Ph.D.** Horticulture, University of Minnesota, 1982-1985
- M.S.** Ornamental Horticulture, Pennsylvania State University, 1977-78.
- B.S.** Horticulture, University of Maryland, 1973-77.

### PROFESSIONAL EXPERIENCE

**Professor**, 1997 to present. University of Kentucky, Department of Horticulture.

**Associate Professor**, 1991 to 1997. University of Kentucky, Department of Horticulture and Landscape Architecture.

**Assistant Professor**, 1985-1991. University of Kentucky, Department of Horticulture and Landscape Architecture.

**Extension Horticulturist**, 1982 to 1985. University of Minnesota, Department of Horticultural Science, St. Paul MN.

### PROFESSIONAL ACTIVITY

#### **Editorship**

Science Editor, North American - **Scientia Horticulturae**. 2001 - present.

Editorial Advisory Board - **Scientia Horticulturae**. 1997 - 2001.

Associate editor - **HortScience** in area of plant propagation 1994 – 1997.

Associate editor - **Scientia Horticulturae** in area of tissue culture. 1994 – 1997.

## PUBLICATIONS

### Refereed Research Publications

- \*Siriwitayawan, G., A. B. Downie, and **R.L. Geneve**. 2002. Seed germination in ethylene insensitive mutants from tomato and arabidopsis. *Seed Science Research*, submitted.
- \*Siriwitayawan, G., A. B. Downie, and **R.L. Geneve**. 2002. Ethylene evolution is positively correlated with seed vigor in sweet corn and tomato seed lots with differing vigor levels but similar germination capacity. *Journal American Society for Horticultural Science*, submitted.
- \*Dutt, M. and **R.L. Geneve**. 2002. Elevated levels of ethylene during germination reduces the time to radicle emergence in impatiens. *Acta Horticulturae*, submitted.
- Geneve, R.L.**, R.S. Gates, \*S. Zolnier, E. Wilkerson, and S. T. Kester. 2002. Environmental control systems for mist propagation of cuttings. *Acta Horticulturae*, submitted.
- Geneve, R.L.**, K.W. Pomper, S.T. Kester, J.N. Egilla, \*C.L.H. Finneseth, \*S. Crabtree, and D.R. Layne. 2002 Propagation of Pawpaw (*Asimina triloba*) - a Review. *HortTechnology*, submitted.
- \*S. Zolnier, R.S. Gates, **R.L. Geneve**, and J.W. Buxton. 2002. Evapotranspiration model-based mist control for poinsettia propagation. *Transactions of the ASAE* submitted.
- Geneve, R.L.** 2002. Impact of temperature on seed dormancy. *HortScience*, in press.
- \*S. Zolnier, R.S. Gates, **R.L. Geneve**, and J.W. Buxton. 2002. Surface diffusive resistances of rooted poinsettia cuttings under controlled-environment conditions. *Transactions of the ASAE* 44: 1779-1787.
- R. Geneve** and S. T. Kester. 2001. Evaluation of seedling size following germination using computer-aided analysis of digital images from a flat bed scanner. *HortScience* 36:117-20.
- \*Finneseth, C.L.H., D.R. Layne, and **R.L. Geneve**. 2000. Establishment of North American pawpaw [*Asimina triloba* (L.) Dunal] shoots in vitro from mature and juvenile explants. *Acta Horticulturae* 520:97-102.
- Geneve, R.L.** 1998. Seed dormancy in commercial vegetable and flower seeds. *Seed Technology* 20:236-249.
- \*Finneseth, C.H., D.R. Layne and **R.L. Geneve**. 1998. Requirements for seed germination in North American pawpaw [*Asimina triloba* (L.) Dunal]. *Seed Science and Technology*. 26:471-480.
- \*Finneseth, C.H., D.R. Layne and **R.L. Geneve**. 1998. Morphological development of the North American pawpaw [*Asimina triloba* (L.) Dunal] during germination and seedling emergence. *HortScience* 33:802-805.
- \*DeVier, C.L. and **R.L. Geneve**. 1997. The influence of flowering on adventitious root formation in chrysanthemum cuttings. *Scientia Horticulturae* 70:309-318.
- Kester, S.T., **R.L. Geneve** and R. Houtz. 1997. L-isoaspartyl methyltransferase activity in tomato seed following accelerated aging and osmotic priming. *Journal of Experimental Botany* 48:943-949.

- \*Distabanjong, K. And **R.L. Geneve**. 1997. Multiple shoot formation from cotyledonary node segments of eastern redbud. *Plant Cell, Tissue and Organ Culture* 47:247-254
- \*Distabanjong, K. and **R.L. Geneve**. 1997. Multiple shoot formation from somatic embryo explants of eastern redbud (*Cercis canadensis* L.). *Plant Cell Reports* 16:334-338.
- Geneve, R. L.** and J. W. Buxton. 1995. Marigold root development during plug production. *Acta Horticulturae* 396:345-350.
- \*Jones, R.O. and **R. L. Geneve**. 1995. Seedcoat structure related to germination in Eastern redbud (*Cercis canadensis* L.) *Journal American Society of Horticultural Science* 120:123-127.
- \*Jones, R. O., **R. L. Geneve** and S. T. Kester. 1994. Micropropagation of gas plant (*Dictamnus albus* L.). *Journal of Environmental Horticulture* 12:216-218.
- \*Wartidiningsih, N., and **R. L. Geneve**. 1994. Source and seed quality influence germination in purple coneflower (*Echinacea purpurea*). *HortScience* 29:1443-1444.
- \*Wartidiningsih, N. and **R. L. Geneve** and S.T. Kester. 1994. Osmotic priming or chilling stratification improve seed germination of purple coneflower (*Echinacea purpurea*) *HortScience* 29:1445-1448.
- Weston, L.A., **R.L. Geneve** and J.E. Staub. 1992. Physiological mechanisms of seed dormancy in *Cucumis sativus* var. *hardwickii* (Royle) Alef. *Scientia Horticulturae* 50:35-46.
- Geneve, R.L.** 1991. Patterns of adventitious root formation in English ivy. *Journal of Plant Growth Regulation* 10(4):215-220.
- Geneve, R.L.** 1991. Seed dormancy in eastern redbud (*Cercis canadensis* L.). *Journal American Society for Horticultural Science* 116(1):85-88.
- Geneve, R.L.** and S.T. Kester. 1991. Polyamines and adventitious root formation in the juvenile and mature phase of English ivy. *Journal of Experimental Botany* 42:71-75.
- Geneve, R. L.**, W. P. Hackett and M. Mokhtari. 1991. Adventitious root initiation in reciprocally grafted leaf cuttings from the juvenile and mature phase of *Hedera helix* L. *Journal of Experimental Botany* 42:65-69.
- \*Yusnita, S., **R. L. Geneve** and S. T. Kester. 1990. Micropropagation of a white flowering form of Eastern redbud. *Journal of Environmental Horticulture* 8(4):177-179.
- Geneve, R.L.** 1990. Root formation in cuttings of English ivy treated with paclobutrazol or uniconazole. *HortScience* 25(6):709.
- Geneve, R.L.** and S.T. Kester. 1990. The initiation of somatic embryos and adventitious roots from developing zygotic embryo explants of *Cercis canadensis* L. cultured in vitro. *Plant Cell Tissue and Organ Culture* 22:71-76.
- Geneve, R. L.**, S. T. Kester and S. El-Shall. 1990. In vitro shoot initiation in Kentucky coffeetree (*Gymnocladus dioica* L.). *HortScience* 25(5):578.
- Geneve, R.L.**, W.P. Hackett and B.T. Swanson. 1990. Root initiation in debladed petioles from juvenile and mature English ivy in response to inhibitors of ethylene biosynthesis and action. *Journal American Society for Horticultural Science* 115(1):128-131.
- Geneve, R. L.**, W. P. Hackett and B. T. Swanson. 1990. Ethylene production in debladed petioles from the juvenile and mature phases of English ivy in relation to adventitious root initiation.

- Journal American Society for Horticultural Science 115(1):123-127.
- Geneve, R. L.,** W. P. Hackett and B. T. Swanson. 1988. Adventitious root initiation in de-bladed petioles from the juvenile and mature phase of English ivy. Journal American Society for Horticultural Science 113(4):630:635.
- Hackett, W. P., **R. L. Geneve** and Mokhtari. 1988. Use of leaf petioles of juvenile and mature *Hedera helix* to study control of adventitious root initiation. Acta Horticulturae 227:1141-144.
- Geneve, R. L.** and L. A. Weston. 1988. Growth reduction of Eastern redbud (*Cercis canadensis*) seedlings caused by interaction with a sorghum-sudangrass hybrid (sudex). Journal of Environmental Horticulture 6(1):24-26
- Geneve, R. L.** and C. W. Heuser. 1983. The relationship between ethephon and auxin on adventitious root initiation in cuttings of *Vigna radiata* (L.) R. Wilcz. Journal American Society for Horticultural Science 108(2):330-333.
- Geneve, R. L.** and C. W. Heuser. 1982. The effect of IAA, IBA, NAA, and 2, 4-D on root promotion and ethylene evolution in mung bean. Journal American Society for Horticultural Science 107(2):202-205.

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\*indicates graduate students

## Books

- Hartmann, H.T., D.E. Kester, F. T. Davies, Jr., and **R. L. Geneve**. 2002. Hartmann and Kester's Plant Propagation: Principles and Practices. Prentice-Hall, Inc., Englewood Cliffs, New Jersey. Seventh edition.
- Hartmann, H.T.; D.E. Kester, F. T. Davies, Jr., and **R. L. Geneve**. 2002. Plant Propagation Teaching Manual. Prentice Hall, Inc., Englewood Cliffs, New Jersey. First edition.
- Geneve, R. L.** 2000. A Book of Blue Flowers. Timber Press, Portland OR.
- Geneve, R. L.,** J. Preece and S. Merkle (eds.). 1997. Biotechnology of Ornamental Plants. CAB International, London.
- Hartmann, H.T., D.E. Kester, F. T. Davies, Jr., and **R. L. Geneve**. 1997. Plant Propagation: Principles and Practices. Prentice-Hall, Inc., Englewood Cliffs, New Jersey. Sixth edition.
- Hartmann, H.T.; D.E. Kester, F. T. Davies, Jr., and **R. L. Geneve**. 1997. Plant Propagation Teaching Manual. Prentice Hall, Inc., Englewood Cliffs, New Jersey. First edition.

## Book Chapters

- Geneve, R.L.** 2003. Vigor testing in flower seeds. In: M.B. McDonald and F. Kwong (eds.). Flower Seeds. Ball Pub. Batavia, IL. In preparation.
- Siriwitayawan, G., M. Dutt, S. T. Kester, A. B. Downie, and **R.L. Geneve**. 2002. Seed ageing in tomato reduces the capacity of seeds to produce ethylene, while priming increases ethylene evolution during germination. In: K.J. Bradford, D. Come, G. Nicolas and H. Pritchard, (eds.) The Biology of Seeds: Recent Research Advances CAB International.

- Geneve, R.L.** 2001. Plant Propagation. Encyclopedia of Life Support Systems. Submitted.
- Geneve, R.L.**, \*R.O. Jones and S.T. Kester. 1997. Micropropagation of gas plant (*Dictamnus albus* L.). In: Bajaj, Y.P.S. (ed.) Biotechnology in Agriculture and Forestry 40: High-Tech and Micropropagation VI. Springer-Verlag, New York. 360-369.
- Trigiano, R.N., **R.L. Geneve** and L.G. Buckley. 1994. Somatic embryogenesis in redbud (*Cercis canadensis*). pp. 471-482. In: S.M. Jain, P.K. Gupta and R.J. Newton (eds.). Somatic embryogenesis in woody plants. Kluwer Academic Publishers. The Netherlands.
- Trigiano, R.N., **R.L. Geneve**, J. Preece and S. Merkle. 1992. Tissue culture of tree legumes. In: J. Janick (ed.). Horticultural Reviews Vol. 14:265-332.
- Geneve, R.L.** 1991. Eastern Redbud (*Cercis canadensis* L.), Judas tree (*Cercis siliquastrum* L.). pp. 142-151. In: Bajaj, Y.P.S. (ed.) Biotechnology in Agriculture and Forestry: Trees III. Vol. 16. Springer-Verlag, New York.
- Geneve, R.L.**, W.P. Hackett. 1990. Ethylene evolution and endogenous polyamines levels during adventitious root formation in English ivy. pp. 332-335. Current Topics in Plant Physiology: American Society of Plant Physiology Series. Vol. 5. Polyamines and Ethylene: Biochemistry, Physiology and Interactions. H.E. Flores and R.N. Artica (eds.). American Society of Plant Physiologists, Rockville, MD.
- Hackett, W. P., J. R. Murray, H-H. Woo R. E. Stapfer and **R. L. Geneve**. 1990. Cellular, biochemical and molecular characteristics related to maturation and rejuvenation in woody species, pp. 147-152. In: R. Rodriguez, R. Sanchez Tames and D.J. Durzan (eds). Plant Aging: Basic and Applied Approaches. N. A. T. O. Advanced Studies Institute Series. Vol 186. Plenum Press, New York.
- Hackett, W. P., **R. L. Geneve** and M. Mokhtari. 1988. Use of debladed petioles of *Hedera helix* to study regulation of adventitious root initiation, pp. 139-148. In: J. W. Hanover and D. E. Keathley (eds.). Genetic Manipulation of Woody Plants. Plenum Press, New York and London.

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\*indicates graduate students

### Proceedings and Industry Publications

- S. Zolnier, R.S. Gates, R. G. Anderson, J. W. Buxton, and R. L. Geneve. 2001. Evapotranspiracao de estacas de poinsetia sob condicoes parcialmente molhad as durante o periodo diurno. Escrito para apresentação no. XXX Congresso Brasileiro de Engenharia Agrícola – CONBEA 2001. (in Portuguese).
- S. Zolnier, R.S. Gates, R. G. Anderson, J. W. Buxton, and R. L. Geneve. 2001. Evapotranspiracao de estacas de poinsetia sov condicoes parcialmente molhadas durante o period nocturno. Escrito para apresentação no. XXX Congresso Brasileiro de Engenharia Agrícola – CONBEA 2001. (in Portuguese).

- Geneve, R. L. 2001. History of plant propagation : a historical perspective. Combined Proceedings International Plant Propagator's Society 51:
- Shubin S., S. Kester, E. Wilkerson, J. Buxton and R. L. Geneve. 2001. Design of a propagation unit that independently controls atmospheric and medium moisture. Combined Proceedings International Plant Propagator's Society 51:
- Geneve, R., M. Williams, and S. Kester. 2001. Container production of passion flower. Nursery and Landscape Program Research Report, University of Kentucky pp. 10-11.
- Hale, B.S., **R. L. Geneve** and R Anderson. 2001. *Passiflora* (passion flower) species and cultivars for use as summer climbers in the southern landscape. Proceedings of Southern Nurserymen's Association Research Conference 46:353-355.
- Wilkerson, E., **R.L. Geneve**, and R.S. Gates. 2000. Automation of image analysis software for evaluation of seed vigor. Paper No. 00-3025. Annual International meeting, American Society of Agricultural Engineers, Milwaukee, Wis.
- Geneve, R.L.** 2000. Root formation in relationship to auxin uptake in cuttings treated by the dilute soak, quick dip, and talc methods. Combined Proceedings International Plant Propagator's Society 50:409-412.
- Finneseth, C. S. Kester, **R. Geneve**, K. Pomper, and D. Layne. 2000. Propagation of pawpaw (*Asimina triloba*). Combined Proceedings International Plant Propagator's Society 50:413-416.
- Fulcher, A., K. Keeney, W. Dunwell and **R. L. Geneve**. 2000. Horticulture information preferences of master gardeners. Proceedings of Southern Nurserymen's Association Research Conference 45:427-431.
- Geneve, R.L.** 1999. Seed dormancy in commercial vegetable and flower seeds. Combined Proceedings International Plant Propagator's Society 49: 248-254.
- Geneve, R.L.**, R. Gates, S. Zolnier, J. Owens, and S.T Kester. 1999. A dynamic control system for scheduling mist propagation in poinsettia cuttings. Combined Proceedings International Plant Propagator's Society 49: 300-303.
- Geneve, R.L.**, K. Oakley, S.T. Kester, and Patchara Wonprasaid. 1999. Seed vigor testing using computer-aided image analysis. Combined Proceedings International Plant Propagator's Society 49: 387-389.
- \*Martins, G., **R.L. Geneve** and S. Kester. 1999. Container size and root pruning method on root and shoot development in seedlings of cherry bark oaks (*Quercus falcata pagodifolia*). Proceedings of Southern Nurserymen's Association Research Conference 44:107-111.
- Zolnier, S., R.S. Gates, R. Anderson, **R.L. Geneve**. 1999. Evaluating novel misting control techniques for poinsettia propagation. ASAE Paper No 994164.
- Zolnier, S., R.S. Gates, **R.L. Geneve**, J.W. Buxton and S.E. Nokes. 1998. Canopy surface resistance of rooted poinsettia cuttings under controlled environmental conditions. ASAE paper No. 984162.
- \*Oakley, K, **R.L. Geneve**, \*G. Siritwiyawan and S. Kester. 1998. Use of digital analysis of radicle extension of marigold seedlings as an early indicator of seed vigor. Combined Proceedings International Plant Propagator's Society 48:491-492.
- \*Martins, G., **R.L. Geneve** and S. Kester. 1998. Response of two oak species to radicle pruning or copper treatment on secondary root formation and shoot growth for container-grown plants.

- Proceedings of Southern Nurserymen's Association Research Conference 43:83-86.
- \*Finneseth, C.L.H., **R.L. Geneve** and D.R. Layne. 1997. Adventitious bud and shoot formation in pawpaw (*Asimina triloba* (L.) Dunal). Combined Proceedings International Plant Propagator's Society 47:638-640.
- \*Finneseth, C.L.H., D.R. Layne and **R.L. Geneve**. 1997. The influence of ontological age on adventitious bud and shoot formation in North American pawpaw (*Asimina triloba* (L.) Dunal). Proceedings of Southern Nurserymen's Association Research Conference 42:75-77.
- \*Wilson, T. M., **R.L. Geneve** and W. Dunwell. 1997. The effect of early radicle pruning on root and shoot development in a red (*Quercus falcata pogodifolia*) and white oak (*Quercus bicolor*) species. Proceedings of Southern Nurserymen's Association Research Conference 42:94-97.
- \*Marohnic, J.J., **R.L. Geneve** and J.W. Buxton. 1996. Capillary mats modify media moisture content during mist propagation. Combined Proceedings of the International Plant Propagator's Society 46:606-607.
- \*K. Oakley, **R.L. Geneve**, S. Kester and M. Stafford. 1996. Marigold growth following transplanting at several stages of development. Combined Proceedings of the International Plant Propagator's Society 46:622-623-549.
- Geneve, R.L.** 1996. New developments in seed germination. Combined Proceedings of the International Plant Propagator's Society 46:546-549.
- \*Finneseth, C.L.H., D.R. Layne and **R.L. Geneve**. 1996. Germination and seedling emergence in pawpaw (*Asimina triloba* (L.) Dunal). Proceedings of Southern Nurserymen's Association Research Conference 41:61-64.
- \*Stafford, M., **R.L. Geneve** and R.E. McNeil. 1996. Changes in root length and diameter in plants grown in copper treated containers. Proceedings of Southern Nurserymen's Association Research Conference 41:73-74.
- \*Marohnic, J.J., **R.L. Geneve** and J.W. Buxton. 1996. Capillary mats modify media moisture content during mist propagation. Proceedings of Southern Nurserymen's Association Research Conference 41:99-102.
- Geneve, R. L.** 1995. Propagating cuttings, Part IV. How stock-plant age affects root formation of cuttings. American Nurseryman 181(6):56-61.
- Geneve, R. L.**, J. W. Buxton and \*M. Stafford. 1995. Copper hydroxide is an effective control of root outgrowth in plug-grown marigold seedlings subirrigated by capillary mats. Proceedings of the Fourth National Symposium on Stand Establishment. pp. 203-209.
- Geneve, R.L.** 1994. A primer on seed germination. Proceedings Perennial Plant Symposium pp. 17-24.
- Geneve, R.L.** 1993. The basics of plant propagation: Age related effects on adventitious root formation. Combined Proceedings of the International Plant Propagator's Society 43:450-454.
- Geneve, R.L.** S.T. Kester, and \*S. Yusnita 1992. Micropropagation in eastern redbud (*Cercis canadensis*). Combined Proceedings of the International Plant Propagator's Society 42:417-420.
- Geneve, R.L.** and M.L. Witt. 1992. Exposure of undergraduate students to historical horticulture. HortTechnology 2(1):145.
- Geneve, R.L.**, \*N. Wartidiningsih and S.T. Kester. 1991. Seed priming for improved germination in herbaceous perennials. Combined Proceedings of the International Plant Propagator's Society

41:376-379.

- Geneve, R.L.**, \*S. Yusnita and S.T. Kester. 1990. Micropropagation of eastern redbud. pp. 236-237. Proceedings of Southern Nurseryman's Association Research Conference.
- Geneve, R.L.** 1988. Gibberellic acid and adventitious root initiation in cuttings of English ivy. pp. 279-282. Proceedings of Southern Nurserymen's Association Research Conference.
- Geneve, R.L.** 1989. Variations within a clone in tissue culture production. Combined Proceedings International Plant Propagator's Society. 39:458-462.

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\*indicates graduate students

### National Horticulture Publications

- Geneve, R.L.** 1996. Desperately seeking cerulean - true blue flowers. *The American Gardener* 75(4):39-43.
- Geneve, R.L.** 1995. Ignite the night with gas plant. *American Horticulturist* 74(6):21-23.
- Geneve, R.L.** 1995. Fascinated with fasciated plants. Combined Proceedings of the International Plant Propagator's Society 45:479-482.
- Geneve, R.L.** 1994. Climbing Plants. *American Horticulturist* 73 (6):30-34.
- Geneve, R.L.** 1992. Homegrown harvest - availability of native plants for the landscape. *American Nurseryman* 175(10):33-36. **Feature article** with cover photo.
- Geneve, R.L.** 1991. Attainable chimeras. *American Horticulturist* 70(12):33-36.
- Anderson, R.A., **R.L. Geneve** and L. Utami. 1991. Gotta cut Godetia. *Greenhouse Grower* 9(1):46-48.
- Geneve, R.L.** 1990. Fascinated with fascination. *American Horticulturist* 69(8):26-31.
- Geneve, R.L.** 1990. A rose by any other name would spell chaos. *American Nurseryman* 172(3):43-47.
- Geneve, R.L.** 1989. Remember me in flowers. *American Horticulturist* 68:12-15.
- Geneve, R.L.** 1982. Evaluating vegetable varieties. *Minnesota Horticulturist* 110(5):156.
- Geneve, R.L.**, R. Olen and S. Berry. 1982. Bush beans for Minnesota gardens. *Minnesota Horticulturist* 110(5):142-143.
- Geneve, R.L.** 1982. The yellow, red, and purple leaves of summer. *Minnesota Horticulturist* 110(3):72-73.
- Geneve, R.L.** 1981. Selecting a mulch for your vegetable garden. *Minnesota Horticulturist* 109(3):72-75.

### Published Abstracts and Presentations

Along with graduate students, I have presented 62 abstracts at national or international meetings. These have included annual meetings for the American Society for Horticultural Science, American Society of Plant Physiologists, International Horticulture Congresses, First International Symposium on the Biology of Adventitious Root Formation and International Symposium on Genetic Manipulation in Woody Plants.

## **SOFTWARE DEVELOPMENT**

- Geneve, R.L. Digital 2002. Digital glossary for plant propagation. Compact Disk. Prentice-Hall, Inc., Englewood Cliffs, New Jersey.
- Geneve, R.L. and C. Cassady. 2001. Small and Medium Trees for Kentucky Landscapes. Compact Disk. University of Kentucky.
- Geneve, R.L., C. Cassady, T. Shearin, and R. Durham. 2001. Native trees for Kentucky.  
<http://www.uky.edu/Ag/Horticulture/kytreewebsite/welcome.htm>
- Durham, R., C. Cassady, C. Kaiser, and R L. Geneve. 2001. Butterfly gardening.  
<http://www.uky.edu/Ag/Horticulture/butterflypages/>
- Geneve, R.L. and C. Cassady. 2000. Large Trees for Kentucky Landscapes. Compact Disk. University of Kentucky.

## **Teaching**

- PLS 440 - Plant Propagation**, 3 credits. 1991 - present. This is my primary course. It has two one hour lectures and one three hour lab.
- PLS 623 - Physiology of Plants**, co-taught (8 lectures), 3 credits. 1990- present. I am responsible for plant hormones.
- HOR 410 - Growth and Development of Horticultural Crops**, co-taught, 3 credits. 1988 - 1999. I was responsible for 1/3 of this course.
- PLS 597 - Special Topics in Plant and Soil Science: Exploring Economically Important Plant Families**. 1996 & 1998.
- AGR 697 - Seed Biology**, co-taught with Dennis TeKrony (Agronomy), 3 credits, offered every other year. 1992- 1999.
- HOR 601 - Physiological mechanisms in horticultural crops**. 1996 & 1998.

## **Graduate Advising**

### Major Advisor

- Sheri Crabtree. 2001 to present. MS student. Propagation of pawpaw. Joint advisor with K. Pomper.
- Manjul Dutt. 2001 to present. MS student. Seedling emergence in ACC-treated seeds.
- Kay Oakley. 1996 to present. M.S. student. Development of seed vigor tests for bedding plant species.
- Gunching Siriwitayawan. 1997 to 2002. PhD candidate. The involvement of ethylene in determining seed vigor and the time required for the completion of germination. Joint advisor with B.

Downie.

- Tera Bonney. 1999 to 2002. MS student. Development of a sampling strategy and random amplified polymorphic DNA (RAPD) protocol for genetic analysis of the North American pawpaw [*Asimina triloba* (L.) Dunal]. Joint advisor with K. Pomper.
- Jenny Vires. 1999 to 2001. MS student. Biomass and total phenolic content of purple coneflower (*Echinacea sp.*) grown in Kentucky, U.S.A. as influenced by genotype and cultural practices. Joint advisor with R. Anderson.
- Tina Wilson. 1998 to 2000. MS student. Film-coating as a seed treatment for *shrunk-2* sweet corn (*Zea mays* L.) during imbibition and emergence under cool temperatures.
- Gisele Martins. 1997 to 1999. MS student. Root pruning method changes plant development and root morphology on seedlings.
- Myra Stafford. 1995 to 1998. M.S. student. Interaction between container shape and copper hydroxide treatment on root and shoot development during container production.
- Jennifer Marohnic. 1994 to 1998. M.S. student. Cutting propagation utilizing capillary mat subirrigation. Elected to leave program without degree.
- Cindy Finneseth. 1995 to 1997. M.S. student. Propagation of the North American pawpaw [*Asimina triloba* (L.) Dunal]. Joint advisor with D. Layne, Kentucky State University.
- Karsedis Distabanjong. 1990 to 1996. Ph.D. degree. Developing regeneration systems for genetic transformation in eastern redbud (*Cercis canadensis* L.). Currently employed as a faculty member in Thailand.
- Peggy Welch. 1993. U.K.-H. Hughes Science Education Initiative (6 week mentor program). Localization of sucrose phosphate synthase during germination of spinach seed. Co-mentor with R. Klein.
- Rodney Jones. 1991 to 1993. M.S. degree. Seed germination and dormancy in gas plant. Currently employed as head propagator for Westvaco forestry company in South Carolina.
- Nining Wartidiningsih. 1988 - 1992. MS degree. Improving the germination performance of purple coneflower by osmotic seed priming. Currently employed as seed technologist for the State Regulatory Services in Kentucky.
- Liliek Utami. 1988 - 1991. MS degree. Field cutflower performance of Satin flower. Currently employed as a faculty member in Indonesia.
- Yusnita. 1988 - 1990. MS degree. Micropropagation of Eastern redbud. Currently employed as a faculty member in Indonesia.
- Saad El-Shall. 1989. Post-doctoral fellow. In vitro morphogenesis in KY coffeetree. Currently employed as a faculty member in Egypt.

### **Undergraduate Research Projects**

- Chris Edwards. 2002. Somatic embryogenesis from immature oak acorns.
- Shubin Saha. 2001. Using a capillary mat system for acclimatizing microcuttings from tissue culture. Co-advisor with J. Buxton.
- Bailey Hale. 2000. Container production of passionflower. Co-advisor with R. Anderson.
- Matt Brown. 1999. Tissue culture of pawpaw and KY coffeetree.
- Jim Owen. 1998-1999. Examining static vs. dynamic misting for rooting cuttings.

- Jordon Hawley. 1996. Development of rooting mutants in *Arabidopsis*.
- Tina Wilson. 1996. Seedling development on capillary mats treated with copper hydroxide.
- Carrie DeVries. 1994. Fayette County High School Mentoring Program. Propagation systems for chrysanthemum.
- Myra Stafford. 1994. Root development during plug production of marigold.
- Jason Scannell. 1993 to 1994. Recipient of Howard Hughes research fellowship and U.K. undergraduate research support (\$1,500). Genetic transformation in tomato.
- Wally Ahmed. 1991 - 1992. Fayette County High School Mentoring Program. Growth and development in black gum.
- Cassandra Pryor. 1991. Research apprenticeship program for high school students. The effect of copper and subirrigation on marigold seedlings in plugs.
- Terriawakia Woods. 1991. Plant Physiology Minority Fellowship program. Involvement of ethylene in seed dormancy and germination in Eastern redbud.
- David Held. 1991. Special problems in Horticulture. Cutting propagation in yarrow.
- Gwendolyn Hartley. 1989. Special problems in Horticulture. Utilization of NAA during cutting propagation.

## **PROFESSIONAL AFFILIATIONS**

### **Membership**

American Society for Horticultural Science  
International Society for Horticultural Science  
International Society for Seed Science  
International Plant Propagators' Society