

# Curriculum Vitae

## *Michael Aloysius Arnold*

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Texas A&M University  
Dept. Horticultural Sciences  
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### Education:

Doctor of Philosophy, North Carolina State University, August 1990.

Major: Horticultural Sciences

GPA: 4.00

Dissertation: Arnold, M.A. 1990. Chilling enhancement of new root growth in species of *Malus*.  
Ph.D. Dissertation, North Carolina State University, Raleigh, North Carolina. p. 111.

Master of Science, The Ohio State University, June 1987.

Major: Landscape Horticulture

GPA: 4.00

Thesis: Arnold, M.A. 1987. Cupric carbonate modification of *Quercus rubra* and *Fraxinus pennsylvanica* root systems and implications for production and transplant. M.S. Thesis, The Ohio State University, Columbus, Ohio. p. 215.

Bachelor of Science in Agriculture, The Ohio State University, December 1984.

Major: Landscape Horticulture

GPA: 3.79, cum laude, second highest in School of Agriculture

Bachelor of Science in Business Administration, The Ohio State University, March 1983.

Major: Production and Operations Management.

GPA: 3.70, cum laude

### Employment History:

<i>Date:</i>	<i>Position:</i>	<i>Field of specialization:</i>	<i>Institution:</i>
2005-present	Professor	Dept. Horticultural Sciences (65-70 % teaching, 25% research, 5% service)	Texas A&M University
20012 – present	Associate Head for Graduate Programs	Dept. of Horticultural Sciences (5% administration)	Texas A&M University
2003-2007	Associate Head for Research & Graduate Studies	Dept. Horticultural Sciences (5% administration)	Texas A&M University
1997-2005	Associate Professor	Landscape Horticulture (65% teaching, 30% research)	Texas A&M University
1993-1997	Assistant Professor	Landscape Horticulture	Texas A & M University

		(75% teaching, 25% research)	
1990 - 1992	Assistant Professor	Ornamental Horticulture	Tennessee Tech. University (18% teaching, 45% research, 37% outreach/service)
1990	Research Assistant	Post-Harvest Physiology	North Carolina State Univ.
1987 - 1990	Grad. Res. Assist.	Root Physiology	North Carolina State Univ.
1985 - 1987	Grad. Res./Teaching Assoc.	Landscape Horticulture	The Ohio State University
1975 - 1984	Clerk	Produce Processing/Sales	The Kroger Company

## **Summary of Key Accomplishments in Teaching, Research and Service**

### ***Teaching Accomplishments***

- Received the 2009 Vice Chancellor's Award in Excellence for Undergraduate Teaching, highest teaching award in the Texas A&M University College of Agriculture and Life Sciences.
- Received the 2009 Southern Region of the American Society for Horticultural Science J. Creighton Miller, Jr. Distinguished Educator Award (the organization's highest teaching award).
- Received a 2007 Association of Former Students Distinguished Achievement Award for Teaching at the College-Level.
- I have developed and taught 6 undergraduate and 3 graduate courses at TAMU which receive student evaluations at or significantly above the departmental average.
- My courses have been adopted as requirements for 3 other department's programs outside of Horticultural Sciences including one from outside of the College of Agriculture and Life Sciences (COALS).
- I have served on 74 graduate students' committees, 14 as chair or co-chair, from a wide range of disciplines including several from outside of COALS.
- I have authored three editions of a plant materials textbook that has been adopted as a required text in courses at four institutions.
- Developed 4 websites for different courses.
- Served as the Internship and Jobs Coordinator for the Department for over 10 years.
- Co-developed the TAMU Nursery/Floral Research and Education Facilities and co-founded the TAMU Horticultural Gardens where I served as co-director or director.

### ***Research Accomplishments***

- Won two research papers of the year awards from the *Plant Growth Regulation Society of America Quarterly* (only two-time winner).
- 2004 Recipient of the American Society for Horticultural Sciences Ornamentals/Landscape/Turf Working Group Distinguished Achievement Award.

- Published 69 refereed journal articles in a wide range of journals and with several interdisciplinary partners.
- Published 36 editor reviewed journal articles, 16 conference/symposia proceedings, and 4 invited book or software reviews.
- Gave 131 scientific presentations of which 39 were invited talks.
- Received over 97 funded grants/contracts/gifts for a total \$879,445 in support.
- Earned over an additional \$30,000 in fee-based programs and royalties and was the inventor on PVP No. 200600009 for *Helenium amarum* 'Dakota Gold'.

### ***Service Accomplishments***

- Inducted as a Fellow in the American Society for Horticultural Sciences in 2010
- Served as Associate Head for Research and Graduate Studies for the TAMU Department of Horticultural Sciences from 2003-2007.
- Served on 59 department, university, or agency committees, 11 as chair or co-chair.
- 2010-2011 President of the Southern Region of the American Society for Horticultural Science
- Served on ASHS Board of Directors, 2011 to present.
- Served on 41 professional organization committees, 14 as chair or co-chair.
- Served as Executive Director of the Metropolitan Tree Improvement Alliance research organization.
- Served on the Board of Directors of the Landscape Plant Development Center.
- Served as an Associate Editor and on the Editorial Board for *HortTechnology*.
- Served on the Editorial Board of the *Journal of Environmental Horticulture*.
- Served as a regular reviewer of research manuscripts for five refereed journals.
- Authored or co-authored 45 popular press articles and 3 extension bulletins.
- Presented 88 talks at industry, consumer, or outreach events.

## Tabular Summary of Accomplishments:

### *Summary of Scholarly Works Published:*

<b>Type of publication</b>	<b>Total number</b>	<b>Sole author</b>	<b>1<sup>st</sup> author</b>	<b>Co-author</b>
<b>Peer reviewed refereed journal articles</b> (peer reviewed and in print or in press)	<b>71</b>	<b>5</b>	<b>30</b>	<b>36</b>
<b>Additional refereed articles submitted</b> (status pending or accepted pending revision)	<b>3</b>	<b>0</b>	<b>1</b>	<b>2</b>
<b>Plant variety patent / plant variety releases</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>1</b>
<b>Invited book or software reviews</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>0</b>
<b>Editor reviewed journals / proceedings</b>	<b>36</b>	<b>6</b>	<b>13</b>	<b>17</b>
<b>Non-reviewed proceedings</b>	<b>16</b>	<b>1</b>	<b>6</b>	<b>9</b>
<b>Books and book chapters</b>	<b>5</b>	<b>4</b>	<b>1</b>	<b>0</b>
<b>Scholarly presentations, abstracts/papers</b>	<b>131</b>	<b>38</b>	<b>32</b>	<b>61</b>
<b>Extension/research station publications</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>
<b>Popular press articles</b>				
<b>Written by the scientist</b>	<b>46</b>	<b>24</b>	<b>6</b>	<b>16</b>
<b>Written by others about scientist's work</b>	<b>61</b>	<b>na</b>	<b>na</b>	<b>na</b>

### *Summary of Scientific abstracts and papers of scholarly presentations*

	<b>Total</b>	<b>International</b>	<b>National</b>	<b>Regional</b>
<b>Invited</b>	<b>40</b>	<b>10</b>	<b>20</b>	<b>10</b>
<b>Volunteered</b>	<b>93</b>	<b>18</b>	<b>42</b>	<b>33</b>
<b>Total presentations</b>	<b>133</b>	<b>28</b>	<b>62</b>	<b>43</b>

*Grants/Contracts/Royalties/Donations*

	Number	Total amount
Funding sources external to University (research)	69	\$635,950
Internal funding sources (research & teaching)	12	\$209,915
Fee-based programming	18	\$41,506
Subtotal of programmatic funding	99	\$887,371
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Administrative efforts for Department	1	\$64,000 yearly (Begin fiscal 2007)

*Courses Taught*

Type of course	Number of different courses taught	
	Texas A&M Univ.	Tenn. Tech. Univ.
Undergraduate courses	6	4
Graduate courses	3	1
Guest lectures	49	4
Independent study courses	10	2

*Teaching Publications:*

<i>Teaching publications:</i>	<i>Number</i>
Textbooks	3
Course packets	4 (multiple editions each)
Class websites	4

*Service on Graduate Student Committees*

<b>Type of Committee</b>	<b>Total</b>	<b>Chair/ co-chair</b>	<b>Committee member</b>	<b>Graduate Council Rep.</b>
Ph.D.	23	6	9	8
M.S.	15	6	9	not applicable
M. Agriculture	13	2	11	not applicable
M. Landscape Architecture	19	0	19	not applicable
M. Education	1	0	1	not applicable
M. Agribusiness	3	0	3	not applicable
External institutions Ph.D. reviews	1	0	1	not applicable
<b>All graduate student committees</b>	<b>76</b>	<b>14</b>	<b>53</b>	<b>8</b>

*Service on University & Professional Committees*

<b>Type of Committee</b>	<b>Total</b>	<b>Chair/ co-chair</b>	<b>Committee member</b>
TAMU University Wide Committees	2	0	2
TAMU College of Agriculture & Life Sciences (COALS)	9	0	9
TAMU Dept. Horticultural Sciences	51	10	27
Texas AgriLife Research & Extension (formerly TAES/TAEX/TCE)	6	1	5
Tenn. Tech. Univ. School of Agriculture	5	0	5
Professional organizations	41	14	27
<b>Total Committee Assignments</b>	<b>100</b>	<b>25</b>	<b>75</b>

## Teaching Experience:

Type of course	<i>Number of different courses taught*</i>	
	Texas A&M Univ.	Tenn. Tech. Univ.
Undergraduate courses	6	4
Graduate courses	3	1
Guest lectures	49	4
Independent study courses	10	2

\*Number of times each course was taught is indicated in the text below.

## Undergraduate Courses Taught:

Horticulture 206 Woody Ornamental Plants, Fall 2004 at Texas A&M University

Horticulture 306 Woody Ornamental Plants (revision of Horticulture 206 to upper division course in Spring 2005), Fall 2005, 2006, 2007, 2008, 2009, 2010, and 2011 at Texas A&M University

Horticulture 207, Landscape Plant Materials, Fall 1993, 1994, 1995, 1996, and Spring 1997, 1998, 1999, 2000 at Texas A&M University

Horticulture 308, Landscape Plant Materials (revision of Horticulture 207 to upper division course in Spring 2001), Spring 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, and 2011 at Texas A&M University

Horticulture 425, Landscape Maintenance & Construction, Spring 1993, 1994, 1995, 1996, Fall 1997, 1998, 1999, 2000, 2001, 2002, 2003 at Texas A&M University (also took over part of this course in mid-semester Spring 2005 when a colleague resigned due to illness).

Horticulture 484, Horticulture Internship, Spring, summer, and fall semesters, 1993-2002 at Texas A&M University when I served as Internship Coordinator for the Department.

Horticulture 485, Problems in Horticulture, Fall 1993, Summer 1996, Summer 1997, Fall 1997, Spring 1999, Summer 2001, Spring 2004, Fall 2008, and Fall 2011 at Texas A&M University

Plant and Soil Science 245, Woody Plant Materials I (cross-listed as Dendrology, Biology 245), Fall 1991 and Fall 1992 at Tennessee Tech. University

Biology 499, Special Problems in Root Physiology and Morphology, Summer 1992 at Tennessee Tech. University

Plant and Soil Science 494, Special Problems in Landscape Design, Summer 1992 at Tennessee Tech. University

Plant and Soil Science 441, Nursery Management (co-taught laboratories with Dr. Douglas L. Airhart), Spring 1991 at Tennessee Tech. University

Plant and Soil Science 494, Special Problems in Landscaping, Fall 1991 at Tennessee Tech. University

Agriculture 391, Work Experience, Spring 1991 at Tennessee Tech. University

Agriculture 492, Senior Research Problems, Fall 1991 and Spring 1992 at Tennessee Tech. University

***Guest lectures in undergraduate courses:***

Horticulture 101, Introductory Horticulture in Fall 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003 Spring 1994, 1995, 1996, 1998, 2001, 2002 at Texas A&M University

Horticulture 431 Nursery Management (laboratory) in Fall 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, and 2011 at Texas A&M University

Horticulture 442 Horticultural Landscape Design II in Fall 2009.

Horticulture 491, Seminar in Fall 2003, 2005, Spring 2005, 2008 at Texas A&M University

Forestry Science 420 Arboriculture and Urban Forestry in Fall 1996 and Fall 2000 at Texas A&M University

Agriculture 3302 Herbaceous Plants in Spring 2005 at Texas State University at San Marcos

Agriculture 3305 Plants for Outdoor Landscapes in Fall 2002, 2004, 2005 and Spring 2003 at Texas State University at San Marcos

Agriculture 4304 Landscape Management in Fall 2004 at Texas State University at San Marcos

Plant and Soil Science 101, Introductory Plant and Soil Science in Fall 1990 and Fall 1991 at Tennessee Tech. University

Plant and Soil Science 341, Plant Propagation in Fall 1992 at Tennessee Tech. University

Plant and Soil Science 441, Nursery Management in Spring 1991 at Tennessee Tech. University

**Graduate Courses Taught:**

Horticulture 608 (initially taught as Horticulture 689), Plants for Landscape Design in Spring 2001, 2002, 2003, 2004, 2005, and Fall 2006, 2007, 2008, 2009, 2010, and 2011 at Texas A&M University

Horticulture 690, Theory of Research in Spring 2003, Fall 2003, Spring 2006 at Texas A&M University

Horticulture 689, Plants for Landscape Design II in Spring 2009, 2010, and 2011.

Horticulture 685, Problems in Horticulture, Spring 1993, Fall 1994, Summer 1996, Spring 1997, Fall 2006, Spring 2007 at Texas A&M University

Horticulture 691, Research, each semester year-round from Fall 1993 through Summer 2010 at Texas A&M University.

Biology 698, Special topics in Landscape Construction and Maintenance, Tennessee Tech. University

***Guest lectures in graduate courses:***

Horticulture 604 Applied Physiology of Horticultural Crops in Spring 1999 at Texas A&M University



## Direction of Undergraduate Students:

### *At Texas A&M University:*

- ◆ Served as advisor to from 8 to 16 undergraduate students with a landscape or nursery emphasis in horticulture each semester from January 1993 through the 2006 when the department switched to a mentoring program by individual faculty with advising done centrally; typically mentoring 3 to 8 students per semester since then.
- ◆ Served as advisor to one University undergraduate fellow from 1999 to 2000, Geoffery Denny, whose work won first place in the student paper competition at the Southern Region Meetings of the American Society for Horticultural Sciences and was later published in a refereed journal (see refereed publication list).
- ◆ Assisted the Horticulture/Floriculture Society (undergraduate club) advisor accompany vans loads of students to Southern Region Meetings of the American Society of Horticultural Sciences for the past ten years where they competed in student competitions.
- ◆ Maintain 2 to 4 undergraduate student workers in my lab group in any given semester where students are exposed to research practices.

### *At Tennessee Tech. University:*

- ◆ Served as advisor to from 10 to 20 undergraduate students majoring in nursery /landscape management or pre-forestry each semester from October 1990 through December 1992.
- ◆ Served as co-advisor to the Plant and Soil Science Club in 1992.

## Direction of Graduate Students:

Served as a member of the graduate faculty at Texas A&M University (1993 – present) and Tennessee Technological University (1990 – 1992).

### *Service on Graduate Student Committees*

<b>Type of Committee</b>	<b>Total</b>	<b>Chair/ co-chair</b>	<b>Committee member</b>	<b>Graduate Council Rep.</b>
<b>Ph.D.</b>	<b>23</b>	<b>6</b>	<b>9</b>	<b>8</b>
<b>M.S.</b>	<b>15</b>	<b>6</b>	<b>9</b>	<b>not applicable</b>
<b>M. Agriculture</b>	<b>13</b>	<b>2</b>	<b>11</b>	<b>not applicable</b>
<b>M. Landscape Architecture</b>	<b>19</b>	<b>0</b>	<b>19</b>	<b>not applicable</b>
<b>M. Education</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>not applicable</b>
<b>M. Agribusiness</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>not applicable</b>
<b>External institutions Ph.D. reviews</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>not applicable</b>
<b>All graduate student committees</b>	<b>76</b>	<b>14</b>	<b>53</b>	<b>8</b>

*Served as major professor for six Master of Science students, two Master of Agriculture students, and six Ph.D. students:*

1. Donita L. Bryan. 2003. M.S. Dept. of Horticultural Sciences. Propagation techniques for a spineless *Acacia wrightii* and a weeping *Ulmus parvifolia*. M.S. Thesis, Texas A&M University, College Station,

- TX. p. 66.
2. Donita L. Bryan. 2008. Ph.D. Influence of Planting Depth on Landscape Establishment of Container-Grown Trees. (continued on for a Ph.D. after completing a M.S.).
  3. Sean Carver. Ph.D. student. Collection and screening of salt tolerant coastal natives for regional built environments.
  4. Geoffrey C. Denny. 2007. Ph.D. Dept. of Horticultural Sciences. Evaluation of Provenance on Drought, Alkalinity and Salinity Tolerance of Bald Cypress.
  5. Priscilla J. Files. 2001. M.S. Dept. of Horticultural Sciences. Implementation and Evaluation of HORTIPM: a World Wide Web Based Interactive Integrated Pest Management Resource. (Co-advisors; D.C. Wilkerson and M.A. Arnold).
  6. Mitchell W. Goyne. 1998. M.S. Dept. of Horticultural Sciences. Effects of Alternative Container Media Components on the Growth of Selected Under-Utilized Small Ornamental Trees. M.S. Thesis, Texas A&M University, College Station, TX. p. 95.
  7. Andrew King. M.S. 2010. Vegetative Propagation and Topophytic Responses of Selected Baldcypress Clones. p. 96.
  8. Andrew King. Ph.D. student. Project in development on marketing and production of native groundcover species.
  9. Garry V. McDonald. 2007. Ph.D. Dept. of Horticultural Sciences. Ozone (O<sub>3</sub>) Efficacy on Reduction of Phytophthora capsici Leonian in Recycled Horticultural Irrigation Water. (Co-advised with Dr. Don Wilkerson and M.A. Arnold).
  10. Michelle S. Meche. 2001. M. Agric. Dept. of Horticultural Sciences. Curriculum Development of a Wildlife Habitat Gardening Golden Ray Series for the Junior Master Gardeners Program. M.Agric. Professional Paper, Texas A&M University, College Station TX. p. 114. (Co-advised with Dr. Ann Kenimer, Ag. Engin.).
  11. Steven P. Obst. 1998. M.S. Dept. Horticultural Sciences. Effects on Growth and Cost of Production of Arizona Ash, Indian Hawthorn, Southern Waxmyrtle, and Live Oak Sequentially Produced in Combinations of Cu-Treated and Non-Treated 0.24 L, 2.7 L, and 10.4 L or 12.7 L Containers. M.S. Thesis, Texas A&M University, College Station, TX (Co-advisors; M.A. Arnold and C.R. Hall) p. 88.
  12. Alma Rosa Solís-Pérez. 2009. Ph.D. Dept. of Horticultural Sciences. Characterizing Salinity Tolerance in Roses. (Co-advised with Dr. Raul Cabrera and M.A. Arnold).
  13. Larry J. Shoemaker. 1996. M.S. Dept. of Horticultural Sciences. The effects of mother tree selection on the root regeneration potential of container-grown sycamore (*Platanus occidentalis* L.). M.S. Thesis, Texas A&M University, College Station, TX. p. 83.
  14. Alicia Beth Bailey, M. Agric. Program, Project undefined, Fall 1994, left school due to death in the family.

***Served as advisory committee member for nine Master of Science, eleven Master of Agriculture, eighteen Master of Landscape Architecture, and nine Ph.D. students:***

1. Nowell Adams. M.S. student in Dept. of Horticultural Sciences (Until transferred to Ag.Ed. in May 1993).
2. Nick K. Biewenga. Current student. M.L.A., Dept. of Landscape Architecture and Urban Planning. (project changed, so was substituted for on the committee, spring 2008).
3. Brooke L. Baca. 2005. M. Ed. Dept. of Agricultural Education. The Makings of an Ag Teacher. p. 53.
4. Russell Book. former M.S. student. Dept. of Forestry. Left the program prior to completion.
5. Val Brandon. 2006. M.L.A. Dept. of Landscape Architecture and Urban Planning, 10 Acre Wetland With Children's Nature Trail.
6. Kelly Bryan. 2010. M.Ag. Dept. of Horticultural Sciences, Chihuahuan Desert Research Institute and Botanical Garden: Summer Internship.
7. Naishi Bu. Current student. M.L.A., Dept. of Landscape Architecture and Urban Planning. Project in

- development.
8. Lucila de Carpio. 2002. Ph.D. Dept. of Horticultural Sciences. Effects of arbuscular mycorrhiza fungi on growth, physiology, and irrigation run-off of selected ornamental crops. Texas A&M University, Dept. of Horticultural Sciences, College Station, TX. p. 190.
  9. Andrew Cartmill, 2004. M.S. Dept. of Horticultural Sciences. Arbuscular Mycorrhizal Fungi Enhance Tolerance to Bicarbonate in *Rosa multiflora*. p. 66.
  10. Javier Chazaro. 1999. M. Agric. Bus., Dept. of Agricultural Economics, Feasibility of Producing Lavender in Mexico p.45.
  11. Tricia Coco. 2000. M.L.A. Dept. of Landscape Architecture and Urban Planning. A Corporate Design For Shrieve Chemical. p.22 plus appendices.
  12. Katherine Copeland. 1998. M.L.A. Dept. of Landscape Architecture and Urban Planning, A Conceptual Master Plan For Blinn College Wetland Park. p. 16.
  13. Brett Doreck. M. Agric. student, Dept. of Plant Pathology and Microbiology, internship at Brazos Valley Tree Farm.
  14. Michael Droske, M.L.A. student, Dept. of Landscape Architecture and Urban Planning, A Sustainable Homestead Landscape Plan Based on Principles of Ecological Succession.
  15. Xiaojing Duan. 2006. M.S. Dept. of Biological and Agricultural Engineering. Characterization of Wastewater Subsurface Drip Emitters and Design Approaches Concerning System Application Uniformity. p. 119.
  16. Marissa D. Faris. 2001. M. Agric. Dept. of Horticultural Sciences. Internship Experience at the Arnold Arboretum of Harvard University.
  17. Craig Anton Felderhoff. 2001. M. Agric. Dept. of Horticultural Sciences. Implementation of a Cut Flower and Seed Production Garden at Monticello.
  18. Charles Henry Fontanier. M.S. 2010. Dept. Soil and Crop Sciences. Effects of Winter Overseeding and Three-Dimensional Clipping Management on Warm-Season Turfgrasses.
  19. Jason L. Gray. M.S. 1999. Dept. of Soil and Crop Sciences. New Dwarf Bermudagrass Responses to Cultivation Practices.
  20. Myron "Mike" Gray. 2007. Ph.D. Dept. of Plant Pathology and Microbiology. The Use of Population Genetics to Test for Genetic Resistance to Oak Wilt in Live Oak.
  21. Kacey Grissom. 2004. M. Agric. Dept. of Horticultural Sciences. Texas Allied Landscape: Transcending the Challenges of Hill Country Landscape Design.
  22. Derald A. Harp. 2000. Ph.D. Dept. of Horticultural Sciences. The Dallas/Fort Worth, Texas, Winter Urban Heat Island and Variations in Low Temperature Injury to Ornamental Plants. p. 77.
  23. Ben Hagood. Current M. Agric.. Student. Dept. of Soil and Crops, internship undefined
  24. Micah E. Hale. 2010. M. Agric., Dept. of Horticultural Sciences, Internship at Moody Gardens.
  25. Hayley Hannah. Current M.S. student, Dept. of Horticultural Sciences, project in development.
  26. Amy Harr. 2005. M.L.A. student, Dept. of Landscape Architecture and Urban Planning, Creating a Landscape Called Home: A Liveable Landscape Design for Red Cashion in Traditions Golf Club in Bryan, Texas. p. 26.
  27. 25.Tamara Hughes. 2003. M.L.A. Dept. of Landscape Architecture and Urban Planning, Design Approaches to City Entrances in Highway Right-of-ways: A Case Study and Project Development.
  28. Melissa Jupe. M.A.B., Dept. of Agricultural Economics. Agribusiness.
  29. Tamara Hughes. M.L.A. student. Dept. of Landscape Architecture and Urban Planning, Design approaches to city entrances in highway right-of-ways: a case study and project development.
  30. Benjamin D.D. Langford. M.L.A. student, Dept. of Landscape Architecture and Urban Planning, project in development on conversion of street area to a park in Byran, TX.
  31. Ming-Han Li. 2003. Ph.D. Dept. of Landscape Architecture and Urban Planning, Vegetative Control of Stream Erosion.
  32. Jeffrey Dean Maca. 1996. M.S. Statistics. Dept. of Statistics, Programs for Analysis of Calibration Studies in Nutritional Epidemiology.
  33. Lauren L. McAdow. M.L.A. student, Department of Landscape Architecture and Urban Planning,

- project in development on a Bryan church.
34. Sheila A. McBride. M.S. student, Department of Plant Pathology and Microbiology. Project on Pierce's disease in grape in development.
  35. Matthew A. McGinley. M.L.A. student, Dept. of Landscape Architecture and Urban Planning, project in development on caliche mine park in Alston, TX.
  36. Tim Pannkuk. Ph.D. student. Dept. of Soil and Crop Sciences. Originally in the area of landscape / turfgrass water management; changed committee members due to project change.
  37. Julie Christine Rothe. M.S. 2010. Dept. of Soil and Crop Sciences. The Identification and Quantification of Leaf Mesophyll Oil Bodies During the Development of Native or Adapted Plant Species.
  38. Andrew E. Schultz. 2002. M.L.A. Dept. of Landscape Architecture and Urban Planning. City of College Station Greenways Head Lake Revitalization: Trailhead Concept. p. unnumbered.
  39. William Walker Secker. 2002. M. Agric. Dept. of Horticultural Sciences. Hill Country Landscape Design.
  40. Sara Ann Smith. M.L.A. student, Dept. of Landscape Architecture and Urban Planning, project in development. Changed committee members due to alteration in project selection.
  41. Jennifer Simek. 1999. M. Agric. Bus. Dept. of Agric. Economics. Retail Nursery emphasis.
  42. David Senkichi Sugeno. 2000. M. Agric. Dept. of Horticultural Sciences. Naturally Occurring Communities of the Edward's Plateau in the Urban Landscape.
  43. Mark Swapp. Current M.L.A. student Dept of Landscape Architecture and Urban Planning. Changed committee members due to a change in research projects.
  44. Sharon Swenson. 2002. M. Agric. Dept. of Horticultural Sciences. Kevin Wood Landscape: A Study of Landscape Design and Installation in the Texas Hill Country.
  45. Gene R. Taylor II. 1998. Ph.D. Dept. of Soil and Crop Science, Water Deficit Tolerance Variability and Heritability in *Agrostis stolonifera*.
  46. Tomas Martinez Trinidad. 2008. Ph.D. Dept. of Forest Science. Effects of carbohydrate applications on growth and vitality of live oak (*Quercus virginiana*).
  47. Julane Tolbert. Ph.D. student. Dept. of Horticultural Sciences. Garden Plants of the Texas Spanish Missions. Quit program in summer 2001.
  48. Chanda Vollmar, M. Agric. Dept. of Horticultural Sciences. Left program prior to completion.
  49. Tanner Lyndon Watkins. 2008. M.L.A. student, Dept. of Landscape Architecture and Urban *Bella Vista*: A residential golf course development, Grayson County, TX.
  50. W. Todd Watson. 1999. Ph.D. Dept. of Plant Pathology and Microbiology. Root Distribution of Apple Trees and Spread of *Phymatotrichum omnivorum* Within Trellised Apple Orchards.
  51. J. Shane Woidtke, 2001. M.L.A. Dept. of Landscape Architecture and Urban Planning. Project on Coastal Plain Landscape Remediation.
  52. Yi Xue. M.L.A. student, Dept. of Landscape Architecture and Urban Planning. A Comprehensive Master Plan for a 1,300 Acre Lake Methodist Conference Center (LMCC) in Anderson County, TX.
  53. Xin Yang. M.L.A. student, Dept. of Landscape Architecture and Urban Planning. A Comprehensive Master Plan for an Active Retirement Community in Hainan, China.

***Served as Graduate Council Representative on Doctoral Advisory Committees of eight Ph.D. students:***

1. Jianwei Feng. 1996. Ph.D. Dept. of Veterinary Microbiology. Isolation and Characterization of *BovNramp1* and *BisNramp1* - A Major Candidate Gene for Natural Resistance to Brucellosis. Ph.D. Dis., Texas A&M University, College Station, TX.
2. Wonryull Loh. Ph.D. student, Dept. of Computer Science. Graduate Council Representatives eliminated effective 2003.
3. Dong-Ho Nam. 2001. Ph.D. Dept. of Civil Engineering. 2001. Improvement in the Accuracy of System Identification and Nondestructive Damage Evaluation in Civil Structures Using Additional Spectral Information. p.309.

4. Bradley E. Noffske. Ph.D. student. Dept of Finance. Stepped back to a Masters program on August 2, 2001.
5. Xiaohong Quan. Ph.D. student, Dept. of Electrical Engineering. Graduate Council Representatives eliminated effective 2003.
6. Chad R. Searcy, Ph.D. 2003. Dept. of Aerospace Engineering. A multiscale model for predicting the degradation of mechanical properties in heterogenous viscoelastic media due to multiscale fracture.
7. Eric Serdahl, Ph.D. 2000. School of Psychology. The Influence of Parent-Teacher Relationships on the Adjustment of Aggressive Children: An Ecosystemic Perspective on the Home-School Mesosystem. Substituted for Dr. Fred Davies while he was on sabbatical.
8. Mark F. Wurden, Ph.D. candidate, Dept. of Business Analysis. Dropped from program.

***Reviewer for Graduate Student Committees at External Institutions:***

1. Fitzgerald, A. 2011. Ph.D. student. Melbourne School of Land and Environment, The University of Melbourne, Australia. Tree root system and canopy relationships in urban trees.

**Additional Teaching Activities:**

*Served as TAMU Dept. Horticultural Sciences Graduate Coordinator, March 2003 – Present:*

- ◆ Served as the departmental contact for the graduate program from March 2003 to present.
- ◆ Other duties are discussed under the section on administrative activities.

*Served as TAMU Dept. Horticultural Sciences Internship Coordinator, Jan. 1993 – March 2003:*

- ◆ Served as the departmental contact for coop programs from Spring 1993 to 2003.
- ◆ Taught HORT 484 (Horticulture Internships) each summer and several spring and fall semesters from Spring 1993 to Spring 2003.
- ◆ Held semi-annual internship orientation meetings in fall and spring semesters, 1993 to 2003.
- ◆ Assisted students in locating organizations and processing paperwork for internships.
- ◆ Maintained student internship files for available internship openings.
- ◆ Arranged for on-campus interviews for internships by industry organizations.
- ◆ Served as the departmental liaison for internship contacts.
- ◆ Periodic revision of the Horticulture Internship Packet for HORT 484 course (see appendix).

*Served as TAMU Dept. Horticultural Sciences Jobs Coordinator, January 1993 – March 2003:*

- ◆ Published the Texas A&M Horticulture Job Opportunities Newsletter monthly from January 1993 through March 2003, began world wide web distribution through <http://aggie-horticulture.tamu.edu> in cooperation with Dr. R. Daniel Lineberger in fall 1995.
- ◆ Arranged for on-campus company interviews of students.
- ◆ Maintenance of job opportunity files.
- ◆ Act as the industry and public liaison for the department through written correspondence and handling of 5 to 15 telephone calls per week.

*Served as Co-Director with Dr. Don Wilkerson of the Texas A&M University Horticultural Gardens 1998 – 2010, Director 2010-2011.*

*Coordinated renovation and expansion of TAMU Dept. Horticultural Sciences Nursery / Floral Crops Research and Education Center and Cooperated with Dr. Don Wilkerson in the Development of the Texas A&M University Horticultural Gardens:*

- ◆ Nearly all improvements were accomplished with external or internal grant funds or in-kind donations.

- ◆ TAMU Dept. Horticultural Sciences Nursery / Floral Crops Research and Education Center Renovation of 4,000 ft.<sup>2</sup> greenhouse and 6,000 ft.<sup>2</sup> shade structure with Dr. Harvey Lang.
  - Expansion of container nursery to approximately 20,000 ft.<sup>2</sup> with Drs. Don Wilkerson (Hort. Sci.), Charles Hall (Ag. Econ.), and Bruce Lesikar (Ag. Eng.).
  - Renovation of 2,000 ft.<sup>2</sup> five room office, storage, laboratory building.
  - Construction of four 250 ft.<sup>2</sup> non-heated poly houses with Dr. Don Wilkerson (Hort. Sci.)
- ◆ Cooperated with Dr. Don Wilkerson in the construction and maintenance of approximately five acres of landscape beds and features at the Texas A&M University Horticultural Gardens.
  - Integrated construction and maintenance with the Landscape Construction and Maintenance (HORT 425) laboratory activities and used the gardens and classrooms extensively in the Landscape Plant Materials (HORT 207, 308, and 608) laboratories
  - Assisted Dr. Don Wilkerson in obtaining internal funding to construct two temporary classrooms and an outdoor shaded meeting area.

### *Teaching Publications:*

<u><i>Teaching publications:</i></u>	<u><i>Number</i></u>
<b>Textbooks</b>	<b>3 editions</b>
<b>Course packets</b>	<b>4 (multiple editions of each)</b>
<b>Class websites</b>	<b>4</b>

*Published a plant materials textbook specifically for use in Texas entitled:*

- ◆ Arnold, M.A. 2008. *Landscape Plants for Texas and Environs, Third Ed.* Stipes Publ. Co., Champaign, IL. p. 1334 plus 80 pages of color plates.
  - Adopted for Texas A&M University course no. HORT 206, HORT 308 & HORT 608, also adopted as a text for use in two courses at Southwest Texas State University (Texas State University at San Marcos), one course at Texas Tech. University, and one course at Sam Houston State University.
- ◆ Arnold, M.A. 2002. *Landscape Plants for Texas and Environs, Sec. Ed.* Stipes Publ. Co., Champaign, IL. p. 1088.
  - Adopted for Texas A&M University course no. HORT 206, HORT 308 & HORT 608, also adopted as a text for use in two courses at Southwest Texas State University (Texas State University at San Marcos), one course at Texas Tech. University, and one course at Sam Houston State University.
- ◆ Arnold, M.A. 1999. *Landscape Plants For Texas And Environs.* Stipes Publishing Co., Champaign, IL. p. 596.
  - Adopted for Texas A&M University course no. HORT 207 and HORT 308, also adopted as a text in 2001 for use in one course at Southwest Texas State University.

*Developed original course packets for HORT 207, HORT 308, and HORT 425; Revised course packets for HORT 484 and the Graduate Policy Manual.*

- ◆ Arnold, M.A. 2001. Horticulture Internship Program: HORT 484 Course Packet. Texas A&M University, Dept. Horticultural Sciences, College Station, TX. p. 11. First published in 1999. Also available at <http://aggie-horticulture.tamu.edu> under the classes section.
- ◆ Arnold, M.A. 1998. *Landscape Plant Materials*, Spring 1998 Ed., Photographic Services, Texas

A&M University, College Station, TX. p. 401.

- Published annual updates from 1994-1998.
  - Revised title from Woody Landscape Plants II in summer 1995, reviewed by Mr. Benny Simpson, Dr. Wayne Mackay, Dr. Brent Pemberton, Dr. William Welch, Dr. Edward McWilliams, Dr. Ed Gilman, and Ms. Jill Nokes.
  - Eventually developed into a textbook, see books published section.
- ◆ Arnold, M.A. 2003. Landscape Construction and Maintenance, Fall 2003 Ed., Photographic Services, Texas A&M University, College Station, TX. p. 182.
    - Published annual updates 1994 -2003 (see attached exam).
    - One or more versions reviewed by Dr. Douglas Welsh and Dr. Ed Gilman.
  - ◆ Arnold, M.A. and S. Duray (eds., originally authored by Dr. D. Wm. Reed). 2006. Graduate Policy Manual. Texas A&M University, Dept. Horticultural Sciences, College Station, TX. p. 24.
    - Revised annually from 2003 to 2006.

*In cooperation with Dr. R. Daniel Lineberger we developed home pages for web-assistance in traditional lecture/laboratory courses HORT 306, HORT 308, HORT 425, and HORT 608 (see appendix):*

- ◆ HORT 306, Woody Landscape Plants,  
<http://aggie-horticulture.tamu.edu/syllabi/206/home/frameset.htm>
- ◆ HORT 308, Landscape Plant Materials,  
<http://aggie-horticulture.tamu.edu/syllabi/308/home/frameset.htm>  
<http://landscapeplants.tamu.edu/index.html>
- ◆ HORT 425, Landscape Maintenance and Construction  
(maintained until 2005 when I last taught the course),  
<http://aggie-horticulture.tamu.edu/syllabi/425/tamuhort.html>
- ◆ HORT 608, Plants For Landscape Design,  
<http://aggie-horticulture.tamu.edu/syllabi/608/index.html>

Served as a member of the American Society for Horticultural Sciences Collegiate Activities Committee, 1995 to 1998, during 1996-97 as chairman; committee involved assisting in the coordination and judging of student paper and poster presentations at the annual conferences.

Served as 2009 section chair of the Southern Region of the American Society for Horticultural Sciences Undergraduate Paper Competition.

Served as 2010 section chair of the Southern Region of the American Society for Horticultural Sciences Masters and Ph.D. Paper Competitions.

Participated in over 40 workshops, retreats, seminars, or other teaching improvement or faculty development activities from 1993 through the present.

Assisted Dr. Daniel Lineberger in the development of Aggie-Horticulture Picture Pages (<http://landscapeplants.tamu.edu/index.html>), an interactive ornamental plant data base, providing supplementary study materials about plants covered in HORT 308 Landscape Plant Materials and HORT 608 Plants For Landscape Design lectures and laboratories. In addition to the interactive data base, full color images are available to aid in identification. Proto-types of CD versions were produced for use in training of Texas Dept. of Agriculture Plant Pathology Inspectors.

Served as a technical reviewer for the Landscape and Nursery topics in the Landscape Design, Construction, and Maintenance (AgSc 361) course from the Agricultural Science and Technology Education

Curriculum from Instructional Materials Services through the Dept. of Agricultural Education at the Texas A&M University, contact rep Keith W. Zamzow.

Served as an invited speaker at the Texas A&M University Graduate Teaching Academy on the topic of “Teaching in Different Institutional Cultures” on Oct. 2, 2006, in College Station, TX.



**Publications:***Summary of Scholarly Works:*

<b>Type of publication</b>	<b>Total number</b>	<b>Sole author</b>	<b>1<sup>st</sup> author</b>	<b>Co-author</b>
<b>Peer reviewed refereed journal articles</b> (peer reviewed and in print or in press)	<b>71</b>	<b>5</b>	<b>30</b>	<b>36</b>
<b>Additional refereed articles submitted</b> (status pending or accepted pending revision)	<b>3</b>	<b>0</b>	<b>1</b>	<b>2</b>
<b>Plant variety patent / plant variety releases</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>1</b>
<b>Invited book or software reviews</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>0</b>
<b>Editor reviewed journals / proceedings</b>	<b>36</b>	<b>6</b>	<b>13</b>	<b>17</b>
<b>Non-reviewed proceedings</b>	<b>16</b>	<b>1</b>	<b>6</b>	<b>9</b>
<b>Books and book chapters</b>	<b>5</b>	<b>4</b>	<b>1</b>	<b>0</b>
<b>Scholarly presentations, abstracts/papers</b>	<b>131</b>	<b>38</b>	<b>32</b>	<b>61</b>
<b>Extension/research station publications</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>
<b>Popular press articles</b>				
<b>Written by the scientist</b>	<b>46</b>	<b>24</b>	<b>6</b>	<b>16</b>
<b>Written by others about scientist's work</b>	<b>61</b>	<b>na</b>	<b>na</b>	<b>na</b>

**Refereed Journal Articles, published, in press, or accepted for publication:**

(\* = while at TAMU, underlined authors indicate current or former graduate students)

In our field the first author is generally regarded as the lead author, with decreasing contribution from left to right. Typically, co-authors must contribute in some substantial manner to the conducting and or writing of the manuscript to be included as an author, lesser contributions are often noted simply as acknowledgements in the text. It is however, traditional to place a graduate student's name first if a portion of the work is from his/her thesis or dissertation, even if the graduate advisor has served as the primary author.

1. \*King, A.R., M.A. Arnold, D.F. Welsh, and W.T. Watson. 2012. Developmental stage and growth regulator concentration differentially affect vegetative propagation of select baldcypress clones. *HortScience* (in press).
2. \*Adams, R.P., M.A. Arnold, A.R. King, and G.C. Denny. 2012. Geographic variation in the leaf essential oils of *Taxodium* (Cupressaceae). *Phytologia* 94(1):53-70 (in press).
3. \*King, A.R., M.A. Arnold, D.F. Welsh, and W.T. Watson. 2011. Substrates, wounding, and hormone concentrations affect adventitious rooting of baldcypress cuttings. *HortScience* 46(10):1387-1393.

4. \*Pemberton, B., M. Arnold, T. Davis, D. Lineberger, C. McKenney, D. Rodriguez, L. Stein, C. Hall, M. Palma, and R. De Los Santos. 2011. The Texas Superstar<sup>®</sup> program - success through partnership. *HortTechnology* 21(6):698-699.
5. \*Bryan, D.L., M.A. Arnold, A. Volder, W.T. Watson, L. Lombardini, J.J. Sloan, A. Alarcon, L.A. Valdez-Aguilar, A.D. Cartmill. 2011. Planting depth and soil amendments affect growth of *Quercus virginiana* Mill. *Urban Forestry & Urban Greening* 10(2):127-132.
6. \*Bryan, D.L., M.A. Arnold, A. Volder, W.T. Watson, L. Lombardini, J.J. Sloan, L.A. Valdez-Aguilar, and A.D. Cartmill. 2010. Effect of planting depth and selected cultural practices on landscape establishment of baldcypress and sycamore. *Arboriculture & Urban Forestry* 36(2):57-65
7. \*Arnold, M.A., G.V. McDonald, G.C. Denny, S.T. Carver, and A.R. King. 2010. Screening potential new tropical ornamentals for alkalinity, salinity, and irradiance tolerances. *J. Environ. Hort.* 29(1)45-50.
8. \*Bryan, D.L., M.A. Arnold, A. Volder, W.T. Watson, L. Lombardini, J.J. Sloan, L.A. Valdez-Aguilar, and A.D. Cartmill. 2009. Planting depth during container production and landscape establishment affects growth of *Ulmus parvifolia*. *HortScience* 45(1):54-60.
9. \*Martinez-Trinidad, T., W.T. Watson, M.A. Arnold and L. Lombardini. 2009. Carbohydrate injections as a potential option to improve growth and vitality of live oaks. *Arboriculture and Urban Forestry* 35(3):142-147.
10. \*Arnold, M.A. and G.V. McDonald. 2009. Groundcovers, organic and inorganic mulches, and masonry surfaces differentially affect establishment and root zone characteristics of urban trees. *Arboriculture and Urban Forestry* 35(5):232-240.
11. \*McDonald, G.V., M.A. Schnelle, and M.A. Arnold. 2009. Cold hardy palms: species and strategies for landscape utilization. *HortTechnology* 19(4):705-709.
12. \*Martinez-Trinidad, T., W.T. Watson, M.A. Arnold, D.N. Appel, and L. Lombardini. 2009. Temporal and spatial carbohydrate partitioning in live oak. *Arboriculture & Urban Forestry* 35(2):63-67.
13. \*Martinez-Trinidad, T., W.T. Watson, M.A. Arnold, and L. Lombardini. 2009. Investigations of exogenous applications of carbohydrates on the growth and vitality of live oaks. *Urban Forestry and Urban Greening* 8(1):41-48.
14. \*St. Hilaire, R., M.A. Arnold, D.A. Devitt, B.H. Hurd, B.J. Lesikar, V.I. Lohr, C.A. Martin, G.V. McDonald, R.L. Morris, D.R. Pittenger, D.A. Shaw, D.C. Wilkerson, and D.F. Zoldoske. 2008. Efficient water use in urban landscapes. *HortScience* 43(7):2081-2092.
15. \*Denny, G.C., M.A. Arnold, and W.A. Mackay. 2008. Evaluation of alkalinity tolerance of selected provenances of *Taxodium* Rich. *HortScience* 43(7):1987-1900.
16. \*McDonald, G.V., G.C. Denny, M.A. Arnold, L.W. Barnes, and D.L. Bryan. 2008. Comparative canopy damage among provenances of baldcypress associated with the presence of *Cercosporidium sequoiae* (Ellis and Everth.) W. A. Baker and Partridge. *HortScience* 43(6):1703-1705.
17. \*Persyn, R., X. Duan, B. Lesikar, A. Kenimer, and M. Arnold. 2008. Performance of wastewater subsurface drip emitters at low and normal pressure. *Water Environment Research* :80(2)142-148.
18. \*Mackay, W.A., M.A. Arnold, G.V. McDonald, N. Sankhla. 2007. Cyclanilide alterations in growth of five landscape plant species during container production are location dependent. *J. Environ. Hort.* 25(2):109-115.
19. \*Watson, T., D. Appel, M. Arnold, and T. Martinez-Trinidad. 2007. Inoculation, symptoms, and colonization in containerized apple trees by *Phymatotrichopsis omnivora* (Duggar) Hennebert. *Agrociencia* 41(4):459-468.
20. \*Denny, G.C. and M.A. Arnold. 2007. Taxonomy and nomenclature of baldcypress, pondcypress and montezuma cypress: one, two or three species? *HortTechnology* 17(1)125-127.
21. \*Denny, G.C. and M.A. Arnold. 2007. Pre-germination seed treatments and stratification affect germination of montezuma cypress. *J. Environ. Hort.* 25(1):1-3.
22. \*Arnold, M.A., G.V. McDonald, D.L. Bryan, G.C. Denny, W. T. Watson, and L. Lombardini. 2007. Below grade planting adversely affects survival and growth of tree species from five different families. *Arboriculture & Urban Forestry* 33(1):64-69.
23. \*Watson, W.T., D.N. Appel, M.A. Arnold, and C.M. Kenerley. 2006. Spatial distribution of *Malus* root

- systems in irrigated, trellised orchards. *J. Hort. Sci. and Biotechnology* 81(4):745-753.
24. \*Arnold, M.A. and G.V. McDonald. 2006. Shrub rose responses to production in smart pots and conventional containers using two contrasting substrates. *Subtropical Plant Science* 58:1-4.
  25. \*Gross, A., N. Azulai, G. Oron, Z. Ronen, M. Arnold, and A. Nejdat. 2005. Environmental impact and health risks associated with greywater irrigation: a case study. *Water Science & Technology* 52(8):161-169.
  26. \*Arnold, M.A., T.D. Davis, and D.W. Reed. 2005. A survey of Horticulture graduate programs at North American universities. *HortTechnology* 16(1):146-152.
  27. \*Bryan, D.L., M.A. Arnold, R.D. Lineberger, and W.T. Watson. 2005. Propagation techniques for a spineless *Acacia wrightii*. *HortScience* 40(6):1832-1837.
  28. \*Arnold, M.A., G.V. McDonald, and D.L. Bryan. 2005. Planting depth and mulch thickness affect establishment of green ash and bougainvillea goldenrain tree. *J. Arboriculture* 31(4):163-170.
  29. \*Mackay, W.A., M.A. Arnold, and J.M. Parsons. 2005. *Nerium oleander* 'Cranberry Cooler', 'Grenadine Glace', 'Pink Lemonade', 'Peppermint Parfait', 'Raspberry Sherbert', and 'Petite Peaches and Cream' (cultivar release). *HortScience* 40(1):265-268. (cultivar release).
  30. \*Arnold, M.A., B.J. Lesikar, G.V. McDonald, and D.C. Wilkerson. 2004. A comparison of subcanopy versus overhead application of constructed wetland treated nursery runoff on short and long rotation nursery crops. *J. Environ. Hort.* 22(4):217-224.
  31. \*Carpio, L.A., F.T. Davies, Jr., and M.A. Arnold. 2005. Arbuscular mycorrhizal fungi, organic and inorganic controlled-release fertilizers – Effect on growth and leachate of container-grown bush morning glory [*Ipomoea carnea* subsp. *fistulosa*] under high production temperatures. *J. Amer. Soc. Hort. Sci.* 130(1):131-139.
  32. \*Arnold, M.A. 2004. Challenges and Benefits of Transplanting Large Trees: An Introduction to the Workshop. *HortTechnology* 15(1):115-117.
  33. \*Li, M-H., H.C. Landphair, M.A. Arnold, K. Mullin, and K.E. Eddleman. 2004. A dormancy extension technique for biotechnical streambank stabilization in warm regions. *Landscape and Urban Planning* 71:2-4 & 223-231.
  34. \*Shoemaker, L.J., M.A. Arnold, and F.T. Davies, Jr. 2004. Provenance impacts transplant establishment and adventitious root regeneration of sycamore. *J. Amer. Soc. Hort. Sci.* 129(3):360-367.
  35. \*Beeson, R.C. Jr., M.A. Arnold, T.E. Bilderback, B. Bolusky, S. Chandler, H.M. Gramling, J. Lea-Cox, J.R. Harris, P.J. Klinger, H.M. Mathers, J.M. Ruter, and T.H. Yeager. 2004. Strategic vision of container nursery irrigation for the next ten years. *J. Environ. Hort.* 22(2):113-115.
  36. \*Arnold, M.A. 2003. Origin of multiple trunks affects crapemyrtle post-transplant establishment. *HortTechnology* 13:120-127.
  37. \*Carpio, L.A., F.T. Davies, Jr., and M.A. Arnold. 2003. Effect of commercial arbuscular mycorrhizal fungi on growth, survivability, and subsequent landscape performance of selected container grown nursery crops. *J. Environ. Hort.* 21:190-195.
  38. \*Arnold, M.A., B.J. Lesikar, G.V. McDonald, D.L. Bryan, and A. Gross. 2003. Irrigating landscape bedding plants and cut flowers with recycled nursery runoff and constructed wetland treated water. *J. Environ. Hort.* 21(2): 89-98.
  39. \*Arnold, M.A., G.L. McDonald, and D.L. Bryan. 2002. Paclobutrazol and uniconazole applications improve the production quality of bush morning glory. *Plant Growth Regulation Soc. Amer. Quarterly* 30:1-14.
  40. \*Harp, D.A., E.L. McWilliams, M.A. Arnold, and J.Griffiths. 2002. An updated hardiness zone map for Dallas/Fort Worth, Texas. *HortTechnology* 12:694-696.
  41. \*Denny, G.C. and M.A. Arnold. 2001. Interactions among rooting substrate, phonological stage of cuttings, and auxin concentration on the rooting of *Cotinus obovatus*. *Journal of Applied Horticulture* 3(1):13-16.
  42. \*Arnold, M.A. and G.L. McDonald. 2001. Paclobutrazol and uniconazole applications affect production quality and subsequent landscape performance of blue plumbago. *Plant Growth Regulation Soc. Amer. Quarterly* 29:112-126. *Awarded 2001 Plant Growth Regulation Society of America Quarterly*

- Outstanding Research Paper of the Year, only two-time winning author in history of the award.***
43. \*Arnold, M.A., R.D. Lineberger, T.D. Davis, S.W. George, W.A. Mackay, G.D. Grant, J.M. Parsons, and L.A. Stein. 2001. Integrating plant trials into teaching and student research programs. *HortTechnology* 11:385-388.
  44. \*Mackay, W.A., S.W. George, T.D. Davis, M.A. Arnold, R.D. Lineberger, J.M. Parsons, L.A. Stein, and G.D. Grant. 2001. Texas Superstar and the Coordinated Educational and Marketing Assistance Program (CEMAP): how we operate. *HortTechnology* 11:389-391.
  45. \*Dunwell, W.C., D. Fare, M.A. Arnold, K. Tilt, G. Knox, W. Witte, P. Knight, M. Pooler, A. Niemiera, J. Ruter, T. Yeager, T. Ranney, R. Beeson, J. Lindstrom, E. Bush, A. Owings, W. Klingeman, and M. Schnelle. 2001. Plant evaluation program for nursery crops and landscape systems by the Southern Extension and Research Activities/Information Exchange Group-27. *HortTechnology* 11:373-375.
  46. \*Watson, W.T., D.N. Appel, M.A. Arnold, and C.M. Kenerley. 2000. Measurement of apple root losses associated with cold storage and elutriation of soil core samples. *HortTechnology* 10:580-584.
  47. \*Arnold, M.A. and G.V. McDonald. 1999. Accelerator™ containers alter plant growth and the root zone environment. *J. Environ. Hort.* 17:168-173.
  48. \*Arnold, M.A., B.J. Lesikar, A.L. Kenimer, and D.C. Wilkerson. 1999. Spring recovery of constructed wetland plants affects nutrient removal from nursery runoff. *J. Environ. Hort.* 17:5-10.
  49. \*Arnold, M.A. 1998. Size control and postproduction growth of container-grown perennial verbena, cherry sage, and lantana drenched with paclobutrazol. *Plant Growth Regulator Society of America Quarterly* 26(4):144-156. ***Won Plant Growth Regulation Society of America Quarterly 1998 paper of the year award.***
  50. \*Shoemake, L.J. and M.A. Arnold. 1997. Half-sib family selection improves container nursery and post-transplant landscape performance of sycamore. *J. Environ. Hort.* 15(3):126-130.
  51. \*Arnold, M.A. and C.D. Townsend. 1997. Implications of an analysis of job newsletter content, readership, and perceived value for student advisement and curriculum development. *HortTechnology* 7:84-90.
  52. \*Arnold, M.A., D.C. Wilkerson, B.J. Lesikar, and D.F. Welsh. 1997. Impacts of copper leaching from Cu(OH)<sub>2</sub>-treated containers on water recycling, nursery run-off, and growth of baldcypress and corn. *J. Amer. Soc. Hort. Sci.* 122(4):574-581.
  53. \*Arnold, M.A. and H.J. Lang. 1996. Greenhouse production and subsequent landscape responses of petunia and pansy to copper-coated containers, cell size, and extended production times. *Subtropical Plant Sci.* 48:54-61.
  54. \*Arnold, M.A. 1996. Mechanical correction and chemical avoidance of circling roots differentially affect post-transplant root regeneration and field establishment of container-grown shumard oak. *J. Amer. Soc. Hort. Sci.* 121:258-263.
  55. \*Arnold, M.A. and D.F. Welsh. 1995. Effects of planting hole configuration and soil type on transplant establishment of container-grown live oak. *J. Arboriculture* 21:213-218.
  56. \*Arnold, M.A. and W.E. Davis. 1994. Delaying budbreak of bare-root Chinese chestnut (*Castanea mollissima*) seedlings with foliar applications of paclobutrazol. *Plant Growth Regulator Society of America Quarterly* 22(4):135-142.
  57. \*Arnold, M.A. and W.E. Davis. 1994. Advantages of using selected seed sources of sycamore and sweetgum for field nursery production and transplant establishment. *J. Environ. Hort.* 12(4):190-192.
  58. \*Arnold, M.A., R.D. Lineberger, and D.K. Struve. 1994. Influence of copper compounds on in vitro rooting of birch microcuttings. *J. Amer. Soc. Hort. Sci.* 119:74-79.
  59. \*Arnold, M.A., D.L. Airhart, and W.E. Davis. 1993. Cupric hydroxide-treated containers affect growth and flowering of annual and perennial bedding plants. *J. Environ. Hort.* 11:106-110.
  60. \*Arnold, M.A. and D.K. Struve. 1993. Root distribution and mineral nutrient uptake of coarse-rooted trees grown in Cu(OH)<sub>2</sub>-treated containers. *HortScience* 28:988-992.
  61. Arnold, M.A. 1992. Timing, acclimation period, and copper hydroxide concentration alter growth responses to the Ohio production system. *J. Environ. Hort.* 10:114-117.
  62. Arnold, M.A. and E. Young. 1991. CuCO<sub>3</sub>-treated containers and root pruning effects on root

- regeneration, shoot growth, and xylary cytokinin in apple and green ash. *HortScience* 26:242-244.
63. Arnold, M.A. and E. Young. 1991. Influence of chilling at 5 C, suckering and top growth on root regeneration in seedlings of *Malus spp.* *J. Hort. Sci.* 66:623-633.
  64. Arnold, M.A. and E. Young. 1990. Differential growth responses of apple species to chilling and root pruning. *J. Amer. Soc. Hort. Sci.* 115:196-202.
  65. Arnold, M.A. and E. Young. 1990. Growth and protein content of apple in response to root and shoot temperatures following chilling. *HortScience* 25:1583-1588.
  66. Arnold, M.A. and E. Young. 1990. Use of dyes to facilitate measurement of new root growth of apple. *HortScience* 25:116-118.
  67. Arnold, M.A. and D.K. Struve. 1989. Green ash establishment following transplant. *J. Amer. Soc. Hort. Sci.* 114:591-595.
  68. Arnold, M.A. and D.K. Struve. 1989. Growing green ash and red oak in CuCO<sub>3</sub>-treated containers increases root regeneration and shoot growth following transplant. *J. Amer. Soc. Hort. Sci.* 114:402-406.
  69. Arnold, M.A. and D.K. Struve. 1989. Cupric carbonate controls green ash root morphology and root growth. *HortScience* 24:262-264.
  70. Struve, D.K. and M.A. Arnold. 1986. Aryl esters of indole butyric acid increase root regeneration in 3-0 red oak seedlings. *Can. J. For. Res.* 16:673-675.
  71. Struve, D.K. and M.A. Arnold. 1986. Aryl esters of IBA increase rooted cutting quality of *Acer rubrum* 'red sunset' softwood cuttings. *HortScience* 21:1392-1393.

### **Additional Refereed Journal Articles, submitted or in revision for resubmission:**

(\* = while at TAMU, underlined authors indicate current or former graduate students)

1. \*Bryan, D.L., M.A. Arnold, A. Volder, L.A. Valdez-Aguilar, A. Alarcon, and A.D. Cartmill. 2011. Arbuscular mycorrhizal fungi alleviate growth of *Ulmus parvifolia* Jacq. at suboptimal planting depths. *Scientia Horticulturae* (in submission).
2. \*Adams, R.P., M.A. Arnold, A.R. King, G.C. Denny, and D. Creech. 2012. *Taxodium* (Cupressaceae): one, two, or three species? Evidence from DNA sequences and terpenoids. *Phytologia* 94(2): (in submission).
3. \*Arnold, M.A., D.L. Bryan, R. Cabrera, G.C. Denny, J.J. Griffin, J.K. Iles, A.R. King, G.W. Knox, L. Lombardini, G.V. McDonald, C.B. McKenney, D.T. Montague, G. Niu, H.B. Pemberton, A.L. Purnell, L.J. Shoemaker, D.K. Struve., and W.T. Watson. 2012. Provenance and tree selection for the urban forest. *Arboriculture and Urban Forestry* (in submission).

### **Plant Variety Patents / Plant Variety Releases:**

(\* = while at TAMU)

1. \*Arnold, M.A. Texas Agricultural Experiment Station via Ball Horticulture & Pan American Seed. 2010. PVP No. 200600009 *Helenium* 'Dakota Gold' issued on 06/22/2010.
2. \*Mackay, W.A., M.A. Arnold, and J.M. Parsons. 2005. *Nerium oleander* 'Cranberry Cooler', 'Grenadine Glace', 'Pink Lemonade', 'Peppermint Parfait', 'Raspberry Sherbert', and 'Petite Peaches and Cream' (cultivar release). *HortScience* 40(1):265-268. (cultivar release).

### **Invited Book and Software Reviews:**

(\* = while at TAMU)

1. \*Arnold, M.A. 2002. The interactive manual of woody landscape plants, version 1.0. (software review). *HortTechnology* 12:743-744.
2. \*Arnold, M.A. 2001. How to grow native plants of Texas and the southwest, revised and updated edition (book review). *HortTechnology* 12:174.

3. \*Arnold, M.A. 1999. Landscape Plants For Subtropical Climates (book review). *HortTechnology* 9:511-512.
4. \*Arnold, M.A. 1995. Plants for problem places (book review). *HortScience* 30:1491.

### Editor-Reviewed Journal Articles:

(\* = while at TAMU, underlined authors indicate current or former graduate students)

1. Arnold, M.A., G.V. McDoanld, G.C. Denny, A.R. King, and S.T. Carver. 2011. Germination of scarified seeds of *Neptunia lutea* and *Mimosa (Schranksia)*. *Proc. 2012 Southern Nursery Research Conference 57*: (in press).
2. \*Blythe, E.K., W. Dunwell, E. Bush, J.W. Adelberg, M. Arnold, R. Bracy, Y. Chen, D. Fare, W. Klingeman, P. Knight, G. Knox, A.V. LeBude, J. Lindstrom, A.X. Niemiera, A. Owings, J. Robbins, J. Ruter, and T.P. West. 2010. Nursery crop and landscape systems plant evaluations by SERA-27 in the southeastern U.S.: 2010 update. 2010. *Comb. Proc. Intl. Plant Prop. Soc.* 60:607-609.
3. \*Arnold, M.A., A.R. King, and S.T. Carver. 2011. Growth and flowering responses of three novel landscape plants to summer shade levels in central Texas. *Proc. 2011 Southern Nursery Research Conference 56*:304-307.
4. \*Arnold, M.A. and G.V. McDonald. 2009. Organic mulches, inorganic mulches, or living groundcovers – do they make a difference in establishment of urban trees? *Proc. of the Landscape Below Ground III Conference*. Lisle, IL, Oct. 7 – 9, 2008. pp. 40-47.
5. \*Bryan, D.L., M.A. Arnold, A. Volder, W.T. Watson, L. Lombardini, J.J. Sloan, and A.D. Cartmill. 2009. Overview of selected studies on the influence of planting depth on landscape establishment of container-grown trees. *Proc. of the Landscape Below Ground III Conference*. Lisle, IL, Oct. 7 – 9, 2008. pp. 125-130.
6. \*Arnold, M.A. and G.V. McDonald. 2008. Surface area and method of weed control surrounding green ash trunks affects landscape establishment. *Proc. Southern Nursery Assoc. Res. Conf.* 53:391-393.
7. \*Arnold, M.A., G.V. McDonald, and G.C. Denny. 2008. Screening promising tropical plants for alkalinity, salinity, and irradiance tolerances when used as summer annuals in a warm temperate climate. *Proc. Southern Nursery Assoc. Res. Conf.* 53:481-483.
8. \*Arnold, M.A. and G.V. McDonald. 2007. Green ash growth was unaffected by interactions between drip irrigation placement and pine bark mulch applications. *Proc. Southern Nursery Assoc. Res. Conf.* 52:196-198.
9. \*McDonald, G.V. and M.A. Arnold. 2005. Production plant growth regulator applications during greenhouse production may inhibit the landscape performance of cool season bedding plants. *Proc. Southern Nursery Assoc. Res. Conf.* 50:517-520.
10. \*McDonald, G.V., J.M. Parsons, and M.A. Arnold. 2005. Deadheading and renewal pruning affect subsequent bloom of chaste tree. *Proc. Southern Nursery Association Res. Conf.* 50:524-526.
11. \*McDonald, G.V., M.A. Arnold, K. Bading, and A. Bonds. 2004. Responses of *Lagerstroemia indica*, *Catharanthus roseus*, and *Zinnia elegans* to AuxiGro® applications during nursery production. *Proc. Southern Nursery Assoc. Res. Conf.* 49:327-329.
12. \*de Carpio, L.A., F.T. Davies, Jr., and M.A. Arnold. 2003. Effect of commercial mycorrhiza on growth, survivability, and subsequent landscape performance of selected container grown ornamental nursery crops. *Proc. Southern Nursery Assoc. Res. Conf.* 48:41-44.
13. \*Arnold, M.A., G.V. McDonald, and G.C. Denny. 2003. Production responses of *Brunfelsia pauciflora*, *Ligustrum japonicum*, and *Buxus microphylla* to a new micronutrient fertilizer, Total Micro Care™. *Proc. Southern Nursery Assoc. Res. Conf.* 48:66-70.
14. \*Arnold, M.A. and G.V. McDonald. 2002. Drench volume and substrate composition affect bush morning glory responses to paclobutrazol applications. *Proc Southern Nursery Assoc. Res. Conf.* 47:282-285.
15. \*Arnold, M.A., G.V. McDonald, B.M. Lesikar, D.L. Bryan, A. Gross, and D.W. Hoffman. 2002. Irrigating landscape bedding plants and cut flowers with recycled nursery runoff. *Proc Southern Nursery*

- Assoc. Res. Conf.* 47:609-615.
16. \*Bryan, D.L., R.D. Lineberger, W.T. Watson, C.R. Hall, and M.A. Arnold. 2002. Propagation of thornless wright acacias. *Proc Southern Nursery Assoc. Res. Conf.* 47:302-305.
  17. \*de Carpio, L.A., F.T. Davies, Jr., and M.A. Arnold. 2002. Mycorrhizal fungi and slow release fertilizer source influence the growth and development of bush morning glory (*Ipomoea carnea*). *Proc Southern Nursery Assoc. Res. Conf.* 47:56-59.
  18. \*Harvey, S.K., M.A. Arnold, G.V. McDonald, and J.M. Parsons. 2002. Evaluation of bush morning glory clonal selections in central Texas. *Proc Southern Nursery Assoc. Res. Conf.* 47:416-421.
  19. \*Arnold, M.A. 2001. Container volume and substrate composition affect production of container-grown *Helenium amarum*. *Proc. Southern Nursery Assoc. Res. Conf.* 46:49-52.
  20. \*Arnold, M.A. 2000. Growth of caddo maple liners in response to photoperiod and fertility. *Proc. Southern Nurserymen's Assoc. Res. Conf.* 45:93-95.
  21. \*Morgan, CD., L.W. Barnes, M.A. Arnold, and G.V. McDonald. 2000. Disease tolerance and landscape performance of *Zinnia* taxa in central Texas. *Proc. Southern Nurserymen's Assoc. Res. Conf.* 45:484-487.
  22. \*Obst, S.P., C.R. Hall, M.A. Arnold, and D.F. Welsh. 1998. Plant responses to sequential use of spin out®-treated containers during up-canning is species specific. *Proc. Southern Nurserymen's Assoc. Res. Conf.* 43:50-52.
  23. \*Hall, C.R., M.A. Arnold, S.P. Obst, and D.F. Welsh. 1998. Economic analysis of producing selected plant species using spinout-treated containers. *Proc. Southern Nurserymen's Assoc. Res. Conf.* 43:272-275.
  24. \*Bauer, B.C., Goyne, M.W., D.C. Wilkerson, B.J. Lesikar, and M.A. Arnold. 1997. Developing a nursery crops research/education facility for evaluating water management. *Proc. Southern Nurserymen's Assoc. Res. Conf.* 42:417-419.
  25. \*Goyne, M.W. and M.A. Arnold. 1996. Container production of under-utilized small trees using kenaf and coconut coir pith. *Proc. Southern Nurserymen's Assoc. Res. Conf.* 41:67-72.
  26. \*Arnold, M.A. 1996. Growth responses of container-grown baldcypress to media drench applications of Mineral 22 (mineral soil derivative) and alternative commercial fertilizers. *Proc. Southern Nurserymen's Assoc. Res. Conf.* 41:130-137.
  27. \*Arnold, M.A. 1995. Growth responses of Nuttall oak to  $\text{Cu}(\text{OH})_2$ -incorporated fiber containers and DCPTA seed soaks. *Proc. Southern Nurserymen's Assoc. Res. Conf.* 40:117-121.
  28. \*Arnold, M.A. 1995. Growth responses of honeylocust to pre-germination seed and post-germination foliar applications of DCPTA. *Proc. Southern Nurserymen's Assoc. Res. Conf.* 40:251-252.
  29. \*Arnold, M.A. and R.K. Culbertson. 1994. Effects of antitranspirant sprays and hydrophilic root dips on the growth of bare-root northern red oak seedlings transplanted to the field or containers. *Southern Nurserymen's Assoc. Res. Conf. Proc.* 39: 156-158.
  30. \*Arnold, M.A. 1994. Researching the landscape plant establishment continuum: Where to focus for the best return on investment? *Southern Nurserymen's Assoc. Res. Conf. Proc.* 39: 328-331.
  31. Case, G.N. and M. A. Arnold. 1993. Effects of  $\text{Cu}(\text{OH})_2$ -Treated Containers on the leaf water potential of greenhouse-grown tropical hibiscus. *Southern Nurserymen's Assoc. Res. Conf. Proc.* 38:78-81.
  32. Arnold, M.A. and W.E. Davis. 1992. Provenance selection improves the nursery performance of sycamore and sweet gum seedlings in the field. *Proc. Southern Nurserymen's Assoc. Res. Conf.* 37:137-139.
  33. Arnold, M.A. and G.N. Case. 1992. Cupric hydroxide-treated containers decrease pot-binding of five species of vigorously rooted greenhouse crops. *Proc. Southern Nurserymen's Assoc. Res. Conf.* 37:94-98.
  34. Arnold, M.A. and E. Young. 1991. A potential method for predicting suckering propensity of apple rootstocks. *Proc. Southern Nurserymen's Assoc. Res. Conf.* 36:144-147.
  35. Struve, D.K., M.A. Arnold, and D.H. Chinery. 1988. Red oak whip production in containers. *Intl. Plant Propagators Soc. Proc.* 37:415-420.
  36. Struve, D.K., M.A. Arnold, and G. Miller. 1987. Improving the root system quality of container-grown

trees. *78th Annual Report of the Northern Nut Growers Assoc.* 78:51-57.

### Non-reviewed conference or symposium proceedings:

(\* = while at TAMU, underlined authors indicate current or former graduate students)

1. \*Arnold, M.A. and G.V. McDonald. 2009. Organic mulches, inorganic mulches, or living groundcovers – do they make a difference in establishment of urban trees? *Proc. of the Landscape Below Ground III Conference*. Lisle, IL, Oct. 7 – 9, 2008. pp. 40-47.
2. \*Bryan, D.L., M.A. Arnold, A. Volder, W.T. Watson, L. Lombardini, J.J. Sloan, and A.D. Cartmill. 2009. Overview of selected studies on the influence of planting depth on landscape establishment of container-grown trees. *Proc. of the Landscape Below Ground III Conference*. Lisle, IL, Oct. 7 – 9, 2008. pp. 126-130.
3. \*Arnold, M.A., G.V. McDonald, D.C. Wilkerson, and B.J. Lesikar. 2006. Alternative landscape uses for nursery runoff and constructed wetland effluent. *Proc. of the Symposium on Efficient Water Use in the Urban Landscape*. New Mexico State University, Las Cruces, NM, Feb. 23-24, 2006. <http://landscape.nmsu.edu/documents/marnoldSympPaper.pdf>.
4. \*Bryan, D.L., M.A. Arnold, G.V. McDonald, W.T. Watson, L. Lombardini, A.D. Cartmill, and G.C. Denny. 2006. Planting depth and cultural practices. pp. 17-24. In: *Proc. of Trees and Planting: Getting the Roots Right Symposium*. G. Watson (ed.). The Morton Arboretum, Lisle, IL, Nov. 10-11, 2005. . <http://www.mortonarb.org/deeptreeroots/>.
5. \*Arnold, M.A. and G.V. McDonald. 2003. Production applications of paclobutrazol and ancymidol affect landscape performance of pansies. *Proc. Plant Growth Regulation Soc. of Amer. and Japanese Soc. for Chemical Regulation of Plants 2003 Annual Meeting*, Vancouver, BC, Canada. Vol. 13 pp. 77-85.
6. \*Mackay, W.A., C.M. McKenney, S.W. George, T.D. Davis, M.A. Arnold, R.D. Lineberger, J.M. Parsons, L.A. Stein, and G.G. Grant. 2002. Texas Superstars™, the Plant Introduction and Marketing Assistance Program in Texas. *Combined Proc. Intl. Plant Prop. Soc.* 52:66-69.
7. \*de Carpio, L.A., F.T. Davies, Jr., and M.A. Arnold. 2002. Mycorrhizal fungi, and organic and inorganic slow release fertilizers influence growth of bush morning glory (*Ipomoea carnea* subsp. *fistulosa*). *Combined Proc. Intl. Plant Prop. Soc.* 52:534-536.
8. \*Arnold, M.A., W.A. Mackay, J.M. Parsons, L. Stein, G. Grant, S.W. George, T.D. Davis, R.D. Lineberger, H.B. Pemberton, and C.B. McKenney. 2002. Development of new woody plants by the Texas coordinated education and marketing assistance program. In: (B. Maynard and T. Ranney, eds.) *Landscape Plant Symposium: Plant Development and Utilization, Proc. of the 12<sup>th</sup> Metropolitan Tree Improvement Alliance Conf.*, Asheville, NC, May 23-25, 2002. <http://fletcher.ces.state.nc.us/programs/nursery/metria/metria12/arnoldetal/index.html>.
9. \*Mackay, W.A., S. George, T. Davis, M. Arnold, D. Lineberger, J. Parsons, and L. Stein. 2001. *Proc. of the New Ornamental Crops Research Symposium*, Chicago Botanic Garden, Glencoe, IL. Sept. 26-29, 2001. p.6.
10. \*Arnold, M.A. 1999. Recent innovations in container nursery production systems. pp. 19 - 27. In: *Proc. 1999 IQDHO Symposium on What's New In Nursery Production Through The World* [Cahier des Conférences, Colloque Innovation et Nouveautés en Pépinière, Tenu à l'Auberge Universel, Drummondville, Québec, CA, les 18 et 19 Féb. 1999, organisé par L'Institut Québécois du développement de L'Horticulture Ornementale (IQDHO)], held February 18 and 19, 1999, at Drummondville, Quebec, Canada, sponsored by The Quebec Institute for the Development of Ornamental Horticulture, St. Hyacinthe, Quebec, Canada.
11. \*Arnold, M.A., L.J. Shoemaker, and M.W. Goyne. 1998. Seed selection and nursery production practices impact root regeneration and tree establishment. pp. 13 - 26. In: *The Landscape Below Ground II: Proceedings of the Second International Conference on Tree Root Development in Urban Soils*. D. Neely and G.W. Watson (eds.). Intl. Soc. Arboriculture, Savoy, IL. p. 265.



12. \*Arnold, M.A., S.W. George, and J.M. Parsons. 1998. Coordinated education and marketing assistance program (CEMAP): a case-study in cooperative industry / university state-wide plant trialing and promotion. METRIA 10, Proc. of the 10th Conference of the Metropolitan Tree Improvement Alliance, St. Louis, MO. (M.A. Arnold and T. Ranney, eds.), Sept. 30 and Oct. 1, 1998. <http://fletcher.ces.state.nc.us/programs/nursery/metria/metria10/Arnold.htm> (web-published proceedings).
13. \*McWilliams, E.L. and M.A. Arnold. 1998. Horticultural history repeating itself: dispersal and the invasion lag phase of exotic plants on the Texas A&M University campus. METRIA 10, Proc. of the 10th Conference of the Metropolitan Tree Improvement Alliance, St. Louis, MO. (M.A. Arnold and T. Ranney, eds.), Sept. 30 and Oct. 1, 1998. <http://fletcher.ces.state.nc.us/programs/nursery/metria/metria10/exotics/exotics.htm> (web-published proceedings).
14. \*Ranney, T. and M.A. Arnold (eds.). 1998. METRIA 10, Proc. of the 10th Conference of the Metropolitan Tree Improvement Alliance, St. Louis, MO, Sept. 30 and Oct. 1, 1998. <http://fletcher.ces.state.nc.us/programs/nursery/metria/metria10/> (web-based publication).
15. \*Lesikar, B.J., A.L. Kenimer, M.A. Arnold, B.C. Bauer, M.W. Goyne, D.C. Wilkerson, and H.J. Lang. 1997. Nursery runoff collection and treatment systems. Presented at the International Summer Meeting of the American Society of Agricultural Engineers, Minneapolis, MN. August 10-14, 1997. Paper No. 975002, ASAE, 2950 Niles Road, St. Joseph, MI 49085-9659, USA. p. 16.
16. \*Goyne, M.W. and M.A. Arnold. 1996. Improving the availability of under-utilized small trees for Texas. Proceedings of the 9th Metropolitan Tree Improvement Alliance Conference 9: available on the internet at <http://www.hcs.ohio-state.edu/metria/arnold/arnold.html>.

### ***Books or chapters therein written or edited:***

(\* = while at TAMU, underlined authors indicate current or former graduate students)

1. \*Arnold, M.A. 2008. *Landscape Plants for Texas and Environs, Third Ed.* Stipes Publ. Co., Champaign, IL. p. 1334 plus 82 pages of color plates.
  - Adopted for Texas A&M University course no. HORT 308 & HORT 608, also adopted as a text for use in two courses at Southwest Texas State University (Texas State University at San Marcos), one course at Texas Tech. University, and one course at Sam Houston State University (see attached copy).
2. \*Arnold, M.A. 2002. *Landscape Plants for Texas and Environs, Sec. Ed.* Stipes Publ. Co., Champaign, IL. p. 1088.
  - Adopted for Texas A&M University course no. HORT 308 & HORT 608, also adopted as a text for use in two courses at Southwest Texas State University (Texas State University at San Marcos), one course at Texas Tech. University, and one course at Sam Houston State University (see attached copy).
3. \*Arnold, M.A. 1999. *Landscape Plants for Texas and Environs.* Stipes Publishing Co., Champaign, IL. p. 596.
  - Adopted for Texas A&M University course no. HORT 207, 308, & 689, also adopted as a text for use in one course at Southwest Texas State University.
4. \*Arnold, M.A., L.J. Shoemaker, and M.W. Goyne. 1998. Seed selection and nursery production practices impact root regeneration and tree establishment. pp. 13 - 26. In: *The Landscape Below Ground II: Proceedings of the Second International Conference on Tree Root Development in Urban Soils.* D. Neely and G.W. Watson (eds.). Intl. Soc. Arboriculture, Savoy, IL. p. 265.
5. \*Arnold, M. A. 1994. Transplanting Experiments: What Worked and What Did Not. pp. 34-46. In: *The Landscape Below Ground.* Watson, G.W. and D. Neely (eds.). International Society of Arboriculture, Savoy, IL. p. 222.

## Abstracts and Papers of Scholarly Presentations:

(\* = while at TAMU, underlined authors indicate current or former graduate students)

### *Summary of Scientific abstracts and papers of scholarly presentations*

	<b>Total</b>	<b>International</b>	<b>National</b>	<b>Regional</b>
<b>Invited</b>	<b>40</b>	<b>10</b>	<b>20</b>	<b>10</b>
<b>Volunteered</b>	<b>93</b>	<b>18</b>	<b>42</b>	<b>33</b>
<b>Total presentations</b>	<b>133</b>	<b>28</b>	<b>62</b>	<b>43</b>

### **Invited International Presentations.**

1. \*Schnelle, M.A., M.A. Arnold, and G.V. McDonald. 2008. Palms on the edge! Design and maintenance issues with palms in temperate landscapes. Annual Conference of the American Society for Horticultural Sciences, Orlando, Florida. *HortScience* 43(4):1061 (abstract).
2. \*Denny, G.C., M.A. Arnold, D.L. Bryan, A. Solis-Perez, G.V. McDonald, W. A. Mackay and B. Pemberton. 2007. Combing baldcypress genotypes for drought, alkalinity, and salinity tolerance. Arboriculture Research and Education Academy, International Society of Arboriculture Conference, Honolulu, HA, July 28 to Aug. 1, 2007.
3. \*Bryan, D.L., M.A. Arnold, G.V. McDonald, and G.C. Denny. 2007. Is planting depth a significant problem for container-grown trees? Arboriculture Research and Education Academy, International Society of Arboriculture Conference, Honolulu, HA, July 28 to Aug. 1, 2007.
4. \*Mackay, W.A., S.A. George, T.D. Davis, M.A. Arnold, D. Lineberger, J. Parsons, L. Stein. 2001. Texas Superstar™ and The Coordinated Marketing and Assistance Program. New Ornamental Crops Research Symposium. Chicago, Botanic Garden, Chicago, IL. Sept. 26-29, 2001.
5. \*Arnold, M.A. 1999. Recent innovations in container nursery production systems. pp. 19 - 27. In: *Proc. 1999 IQDHO Symposium on What's New In Nursery Production Through The World*, held February 18 and 19, 1999, at Drummondville, Quebec, Canada, sponsored by The Quebec Institute for the Development of Ornamental Horticulture, St. Hyacinthe, Quebec, Canada.
6. \*Arnold, M.A. 1998. Container nursery production practices impact landscape tree establishment. *Landscape Below Ground II: The Second International Conference on Tree Root Development in Urban Soils*, San Francisco, CA. March 4 -6, 1998. (see chapter in book section).
7. \*Arnold, M.A., B.J. Lesikar, and D.C. Wilkerson. 1998. Treating Nutrient Contaminated Runoff Using Constructed Wetlands. Researchers Meeting at the *Landscape Below Ground II: The Second International Conference on Tree Root Development in Urban Soils*, San Francisco, CA. March 4 -6, 1998.
8. \*Arnold, M.A. 1997. Container nursery production practices impact landscape tree establishment. *Arboriculture Research and Education Academy Arboriculture and Urban Forestry Symposium for Researchers and Educators Abstracts*. Abstract 4.
9. \*Arnold, M.A. 1993. Talk entitled "Improving root regeneration of transplanted container-grown trees in Texas. *The Landscape Below Ground Symposium*, September 29, 1993, Lisle, IL.
10. \*Arnold, M.A. 1993. Talk entitled "Transplanting trials and tribulations". *The Landscape Below Ground An International Workshop on Tree Root Development in Urban Soils*, September 30, 1993, Lisle, IL. (see chapter in book section).

## Invited National Presentations.

1. \*Arnold, M.A. 2010. Exploring new tropicals and summer crops for patio containers and summer landscapes. OFA Short Course, Be at the Heart of Horticulture, Columbus, Ohio, July 10-13, 2010. p. 28. (Abstract).
2. \*Arnold, M.A. 2009. Recent Research on Transplant Establishment Planting Decisions – Giving Trees a Fighting Chance in the Urban Jungle! 2009 American Society of Consulting Arborists Annual Conference, Monterey, CA, Dec. 2 – 5, 2009. *Connections 2009*, p. 11. (Abstract).
3. \*Schnelle, M.A., M.A. Arnold, and G.V. McDonald. 2008. Palms on the edge! Design and maintenance issues with palms in temperate landscapes. Annual Conference of the American Society for Horticultural Sciences, Orlando, Florida. *HortScience* 43(4):1061 (abstract).
4. \*Arnold, M.A. 2007. Making a game plan for the conference. Annual Conference of the American Society for Horticultural Sciences, Scottsdale, AZ, July 15-19, 2007.
5. \*Arnold, M.A. 2006. Grappling with strangling roots: strategies for root architecture modification in containers. 2006 American Society for Horticultural Sciences Annual Conference, New Orleans, LA. *HortScience* 41:944 (abstr.).
6. Arnold, M.A., G.V. McDonald, D.C. Wilkerson, and B.J. Lesikar. 2006. Alternative landscape uses for nursery runoff and constructed wetland treated effluent. Symposium on Efficient Water Use in the Urban Landscape, Las Cruces, NM. February 23-24, 2006.
7. \*Bryan, D.L., M.A. Arnold, G.V. McDonald, W.T. Watson and L. Lombardini. 2005. Interactions among mulch thickness and planting depth. Trees and Planting: Getting the Roots Right Symposium, The Morton Arboretum, Lisle, IL. Nov. 9-10, 2005.
8. \*Arnold, M.A. and D.L. Bryan. 2005. *Quercus virginiana* growth and physiological responses to planting depth are influenced by physical properties of soils. Trees and Planting: Getting the Roots Right Symposium, The Morton Arboretum, Lisle, IL. Nov. 9-10, 2005.
9. \*Bryan, D.L., M.A. Arnold, G.V. McDonald, W.T. Watson, and L. Lombardini. 2005. Planting depth and cultural practices. Trees and Planting: Getting the Roots Right Symposium, The Morton Arboretum, Lisle, IL. Nov. 9-10, 2005.
10. \*Arnold, M.A., G.V. McDonald, D.C. Wilkerson, and B.J. Lesikar. 2005. Recycled runoff water treatment and uses. 2005 Annual Conference of the American Society for Horticultural Science, Las Vegas, NV. July 18-21, 2005. *HortScience* 40:937 (Abstr.).
11. \*Arnold, M.A. 2004. Wildflowers: beyond the roadside – an introduction. *HortScience* 39:708.
12. \*Arnold, M.A. 2004. Bitterweed or Texas golden star: rancher versus horticulturist? 2004 American Society for Horticultural Sciences Conference, Austin, TX, *HortScience* 39:709.
13. \*Arnold, M.A. 2003. Is bigger better?: an introduction to the transplanting large trees workshop. 2003 American Society for Horticultural Sciences Conference, Providence, RI. *HortScience* 38:835 (abstract).
14. \*Arnold, M.A. 2003. Outside the lines - plants for southern climates: landscape BMPs. *Sports Turf Managers Association 14<sup>th</sup> Annual Conference and Exhibition*. San Antonio, TX. Jan. 15-19, 2003.
15. \*Arnold, M.A. 2003. Outside the lines - plants for southern climates: minimizing inputs. *Sports Turf Managers Association 14<sup>th</sup> Annual Conference and Exhibition*. San Antonio, TX. Jan. 15-19, 2003.
16. \*Arnold, M.A. 2001. Stacked courses: double dipping or double the trouble. 2001 Annual Conference of the American Society for Horticultural Sciences, Sacramento, CA. July 22-25, 2001. *HortScience* 36:525 (abstract).
17. \*Arnold, M.A., T.D. Davis, S.W. George, D. Grant, R.D. Lineberger, W.A. Mackay, J.M. Parsons, and L.A. Stein. 2000. CEMAP with a capital "C": cooperation is the key to successful plant trialing programs. Invited talk at the 2000 Conference of the American Society for Horticultural Sciences, Orlando, FL. *HortScience* 35:361 + corrections in *Amer. Soc. Hort. Sci. Newsletter* 16(7):1.
18. \*Anella, L.B., M.A. Arnold, M.N. Dana, M.A. Dirr, B.K. Maynard, and U.K. Schuch. 1998. What's worked for me: a panel of instructors share experiences. Teaching Nursery Production And Plant Materials: An Exchange of Methods And Concerns, Workshop 6, *95<sup>th</sup> Annual Intl. Conf. Amer. Soc. Hort. Sci.*, Charlotte, NC. July 13, 1998.

19. \*Arnold, M.A. 1996. Coating of nursery containers to improve tree root system quality and transplant establishment. *HortScience* 31:695 (Abstract 762).
20. \*Arnold, M.A. 1996. Improving the availability of under-utilized small trees for Texas. *METRIA 9, Ninth Conference of the Metropolitan Tree Improvement Alliance*, Columbus, OH, Aug. 8-9, 1996, <http://www.hcs.ohio-state.edu/METRIA/arnold/ARNOLD.html>.

### **Invited Regional Presentations.**

1. \*Arnold, M.A. 2011. *To mulch or not to mulch*. Great Southern Tree Conference, Gainesville, FL, December 1-2, 2011. Gainesville, Florida.
2. \*Arnold, M.A. 2011. *Pondering the future dynamics of Horticulture*. Presidential Address to the 2011 Southern Region of the American Society for Horticultural Sciences, Corpus Christi, TX. February 7, 2011.
3. \*Arnold, M.A. 2010. *Refrigerators, Eskimos, and translational landscape research*. Texas A&M University Department of Horticultural Sciences Seminar Series, College Station, TX. December 2, 2010.
4. \*Arnold, M.A. 2010. Knowing the Flowers From The Weeds & Other Fun Things We Learn In Aggie Horticulture. 2010 Les Reeves Lecture Series, The Mast Arboretum, Stephen F. Austin State University, Nacogdoches, TX, March 11, 2010.
5. \*Arnold, M.A. 2006. North American Horticulture graduate programs: How do we compare and can we remain competitive? Texas A&M University Department of Horticultural Sciences Seminar Series, College Station, TX. April 20, 2006.
6. \*Arnold, M.A. 2004. Producing trees in containers designed to reduce circling roots. The Fourth Annual Great Southern Tree Conference, Gainesville, FL, Dec. 2-4, 2004.
7. \*Arnold, M.A. 2004. Tree provenance. The Fourth Annual Great Southern Tree Conference, Gainesville, FL, Dec. 2-4, 2004.
8. \*Arnold, M.A. 1997. Container production of lesser known small trees species for Texas. *Southern Plant Conference 1997 Schedule and Speaker Notes*. p. 14-16.
9. \*Arnold, M.A. 1997. "A tall Texas tale": Evolution of a nursery and landscape management program. The Ohio State University, Department of Horticulture and Crop Science, Columbus, OH, June 6, 1997.
10. Arnold, M.A. 1991. Woody plant identification. Proc. 24th Annual Tennessee Nursery Short Course 24:102-114.

### **Volunteered International Presentations.**

1. \*Arnold, M., D. Bryan, E. Bush, R. Cabrera, G. Denny, J. Griffin, J. Iles, A. King, G. Knox, L. Lombardini, G. McDonald, C. McKenney, T. Montague, G. Niu, A. Owings, B. Pemberton, A. Purnell, L. Shoemaker, D. Struve, and T. Watson. 2011. Provenance and tree selection for the urban forest. *Urban Tree Growth: An International Meeting and Research Symposium* (12-13 Sept. 2011, Lisle, IL) *Conference Proceedings* p. 41.
2. \*Bryan, D.L., M.A. Arnold, A. Volder, A. Alarcón, L.A. Valdez-Aguilar, and A.D. Cartmill. 2011. Effect of planting depth and arbuscular mycorrhizal fungi on growth and physiology of *Ulmus parvifolia* Jacq. *Urban Tree Growth: An International Meeting and Research Symposium* (12-13 Sept. 2011, Lisle, IL) *Conference Proceedings* p. 42.
3. \*Bryan, D.L., M.A. Arnold, A. Volder, W.T. Watson, L. Lombardini, J.J. Sloan, A. Alarcón, L.A. Valdez-Aguilar, and A.D. Cartmill. 2011. Effect of soil amendments and planting depth on landscape establishment of live oak. International Annual Meetings of American Society of Agronomy, Crops Science Society of America, Soil Science Society of America, and Canadian Society of Soil Science, Oct. 16-19, 2011, San Antonio, TX.

4. \*Bryan, D.L., M.A. Arnold, A. Volder, L. Lombardini, W.T. Watson, J.J. Sloan, and A.D. Cartmill. 2008. Effects of planting depths and soil types on landscape establishment of baldcypress. 2008. International Society for Arboriculture Conference, St. Louis, MO.
5. \*Arnold, M.A. and G.V. McDonald. 2008. Groundcovers, organic and inorganic mulches, and masonry surfaces differentially affect establishment and root zone characteristics of urban trees. Landscape Below Ground III Conference, Lisle, IL, Oct. 7 – 9, 2008.
6. \*Bryan, D.L., M.A. Arnold, A. Volder, L. Lombardini, W.T. Watson, J.J. Sloan, and A.D. Cartmill. 2008. Influence of planting depth, container production methods, and cultural practices on tree performance and landscape establishment. Landscape Below Ground III Conference, Lisle, IL, Oct. 7 – 9, 2008.
7. \*Bryan, D.L., M.A. Arnold, L. Lombardini, W.T. Watson, J.J. Sloan, and A.D. Cartmill. 2007. Can We Fix It? Effect of Different Planting Depths on Lacebark Elm. Arboriculture Research and Education Academy, International Society of Arboriculture Conference, Honolulu, HA, July 28 to Aug. 1, 2007.
8. \*Martinez-Trinidad, T., W.T. Watson, M.A. Arnold, D.N. Appel, and L. Lombardini. 2006. Temporal and spatial carbohydrate partitioning in live oak. International Society of Arboriculture's 82<sup>nd</sup> Annual Conference and Trade Show, Minneapolis, MN, July 29 – Aug. 2, 2006
9. \*Gross, A., N. Axulai, G. Oron, Z. Ronen, M. Arnold, and A. Nejidat. 2004. Environmental impact and health risks associated with graywater irrigation – a case study. Proc. 4<sup>th</sup> World Water Congress, IWA Biannual Meeting, Marrakeck, Morocco.
10. \*Amaya-Carpio, L., F.T. Davies, Jr., T. Fox, A. Cartmill, M.A. Arnold, and C. He. 2003. Effect of arbuscular mycorrhizal fungi and organic fertilizer on photosynthesis, growth, nutrient uptake and root phosphatase activity of *Ipomoea carnea* subsp. *fistulosa*. *The Fourth International Conference on Mycorrhizae (ICOM)*, Montréal, Canada, August 10-15, 2003. (abstract in press).
11. \*Arnold, M.A. and G.V. McDonald. 2003. Production applications of paclobutrazol and ancymidol affects landscape performance of pansies. Plant Growth Regulation Society of America / Japanese Society for Chemical Regulation of Plants 2003 Annual Meeting, Vancouver, British Columbia, Canada. Aug. 3 -6, 2003. *Plant Growth Regulation Society of America Quarterly* 31:97 (Abstract 37).
12. \*de Carpio, L.A., F.T. Davies, Jr., and M.A. Arnold. 2002. Mycorrhizal fungi enhance growth and nutrient uptake of bush morning glory (*Ipomoea carnea*) fertilized with organic and inorganic sources. *On-Site Program, XXVIth International Horticultural Congress and Exhibition (IHC2002), Horticulture: Art and Science for Life*, Toronto, Canada, August 11-17, 2002. (Abstract S10-P-42, p. 285).
13. \*Arnold, M.A. 1999. From weed to wonder: taming bitterweed for the landscape. 96<sup>th</sup> Annual Intl. Conf. of the Amer. Soc. Hort. Sci., Minneapolis, MN, July, 1999. *HortScience* 34:552-553 (abstract 611).
14. \*McDonald, G.V. and M.A. Arnold. 1999. Tree establishment and soil surface covers. 96<sup>th</sup> Annual Intl. Conf. of the Amer. Soc. Hort. Sci., Minneapolis, MN, July, 1999. *HortScience* 34:550 (abstract 597).
15. \*Lesikar, B.J., A.L. Kenimer, M.A. Arnold, B.C. Bauer, M.W. Goyne, D.C. Wilkerson, and H.J. Lang. 1997. Nursery runoff collection and treatment systems. Presented at the *International Summer Meeting of the American Society of Agricultural Engineers*, Minneapolis, MN. August 10-14, 1997. Paper No. 975002, ASAE, 2950 Niles Road, St. Joseph, MI 49085-9659, USA. p. 12.
16. \*Arnold, M.A. 1995. Post-transplant effects of mechanical and chemical correction of circling roots on shumard oak. *HortScience* 30:897 (abstract 837).
17. \*Shoemaker, L.J. and M.A. Arnold. 1995. Adaptability of selected half-sib families of sycamore to container and nursery production. *HortScience* 30:813 (abstract 458).
18. \*Arnold, M. A. 1993. Root regeneration and growth responses of bare-root scarlet oak seedlings to temperature, K-IBA, and DCPTA root priming. *Abstracts of Presentations at the First International Symposium on the Biology of Adventitious Root Formation*. USDA For. Ser. North Central For. Exp. Stat. General Tech. Rpt. NC-154. p. 74.

## Volunteered National Presentations.

1. \*Pemberton, H.B., M.A. Arnold, C.B. McKenney, A.R. King, W.R. Roberson, and W. Hanna. 2011. Garden performance of napier grass cultivars at three locations in Texas. 2011 Annual Conference of the American Society for Horticultural Sciences, Waikoloa, HA. *HortScience* 46(9): S264 (Abstr.).
2. \*Pemberton, B., T. Davis, M. Arnold, D. Lineberger, C. McKenney, L. Stein, D. Rodriguez, M. Palma, and R. de Los Santos. 2011. *The Texas Superstar<sup>®</sup> program – Success through partnership*. National Floriculture Forum, March 9-11, 2011, Dallas, TX.
3. \*King, A.R., M.A. Arnold, D.F. Welsh, and W.T. Watson. 2010. Effects of substrates, wounding, and hormone concentrations on vegetative propagation of baldcypress. Annual Conference of the American Society for Horticultural Sciences, Dessert Springs, CA. *Proc. Ann. Conf. Amer. Soc. Hort. Sci.* 45(8) S192-S193. (Abstr.).
4. \*King, A.R., M.A. Arnold, D.F. Welsh, and W.T. Watson. 2009. Developmental stage and hormone concentration differentially affect vegetative propagation of select baldcypress clones. Annual Conference of the American Society for Horticultural Sciences, St. Louis, Missouri. *HortScience* 44(4):1041-1042 (abstr.). (Won third place in graduate student poster competition.)
5. \*King, A.R., M.A. Arnold, D.F. Welsh, and W.T. Watson. 2009. Developmental stage and hormone concentration differentially affect vegetative propagation of select baldcypress clones. Annual Conference of the American Society for Horticultural Sciences, St. Louis, Missouri. *HortScience* 44(4):1041-1042 (abstr.).
6. \*Denny, G., M. Arnold, W. Mackay, L. Lombardini, and H.B. Pemberton. 2007. Effect of provenance on drought tolerance of *Taxodium distichum*. Annual Conference of the American Society for Horticultural Sciences, Scottsdale, AZ, July 15-19, 2007. *HortScience* 42(4):911 (Abstr.).
7. \*McDonald, G.V. and M.A. Arnold. 2007. Ozone efficacy of *Phytophthora capsici* in recirculated irrigation water. 2007 Annual Conference of the American Society for Horticultural Sciences, Scottsdale, AZ, July 15-19, 2007. *HortScience* 42(4):898 (Abstr.).
8. \*Denny, G.C. and M.A. Arnold. 2006. Effect of provenance on alkalinity tolerance of baldcypress. 2006 American Society for Horticultural Sciences Annual Conference, New Orleans, LA. *HortScience* 41:1004 (abstr.).
9. \*Arnold, M.A. and G.V. McDonald. 2006. Responsible plant growth regulator recommendations from greenhouse-grown bedding plant experiments must integrate data from postharvest landscape evaluations. 2006 American Society for Horticultural Sciences Annual Conference, New Orleans, LA. *HortScience* 41:984 (abstr.).
10. \*Bryan, D.L., W.T. Watson, L. Lombardini, J.J. Sloan, A.D. Cartmill, G.C. Denny, and M.A. Arnold. 2005. Short-term responses of live oak to planting depth and soil amendments. 2005 Annual Conference of the American Society for Horticultural Sciences, Las Vegas, NV. July 18-21, 2005. *HortScience* 40:1079. (abstr.).
11. \*McDonald, G.C., M.A. Arnold, B.J. Lesikar, L.W. Barnes, and D.C. Wilkerson. 2005. Effects of ozone treated irrigation water on vegetative growth of chrysanthemum. 2005 Annual Conference of the American Society for Horticultural Science, Las Vegas, NV. July 18-21, 2005. *HortSciences* 40:1059 (abstr.).
12. \*Denny, G.C., W.T. Watson, L. Lombardini, W.A. Mackay, A.R. Solis-Perez, D.L. Bryan, and M.A. Arnold. 2005. Provenance affects growth of *Taxodium distichum* in containers. 2005 Annual Conference of the American Society for Horticultural Science, Las Vegas, NV. July 18-21, 2005. *HortSciences* 40:1106 (abstr.).
13. \*Arnold, M.A., T.D. Davis, and D.W. Reed. 2005. A survey of Horticulture graduate programs and faculty salaries at North American Universities. 2005 Annual Conference of the American Society for Horticultural Science, Las Vegas, NV. July 18-21, 2005. *HortSciences* 40:1137 (abstr.).
14. \*Arnold, M.A., G.V. McDonald, and D.L. Bryan. 2004. Mulch thickness and planting depths can interact to reduce growth and survival of green ash and goldenraintree. *HortScience* 39:884 (abstract).
15. \*Bading, K.R., G.V. McDonald, M.A. Arnold, and W.A. Mackay. 2004. Effects of paclobutrazol on

- production and landscape performance of Texas maroon bluebonnet. 2004 American Society for Horticultural Sciences Conference, Austin, TX *HortScience* 39:884 (abstract).
16. \*Denny, G.C. and M.A. Arnold. 2004. Effects of seed coat treatment and stratification on the germination rate of Montezuma cypress. 2004 American Society for Horticultural Sciences Conference, Austin, TX. *HortScience* 39:787 (abstract).
  17. \*McDonald, G.V. and M.A. Arnold. 2004. Paclobutrazol and ancymidol spray applications affect production responses and subsequent landscape performance of ornamental cabbage, calendula, and pansy. 2004 American Society for Horticultural Sciences Conference, Austin, TX. *HortScience* 39:790 (abstract).
  18. \*Watson, W.T., D.N. Appel, M.A. Arnold, C.M. Kenerley, and J.L. Starr. 2004. Seasonal influence on infection rates of *Malus sylvestris* var. *domestica* roots by *Phymatotrichopsis omnivore*. 2004 American Society for Horticultural Sciences Conference, Austin, TX. *HortScience* 39:747 (abstract 10).
  19. \*Watson, W.T., D.N. Appel, M.A. Arnold, C.M. Kenerley, and J.L. Starr. 2004. Utilizing aboveground rhizotrons to study root growth and pathogen movement in simulated orchard conditions. 2004 American Society for Horticultural Sciences Conference, Austin, TX. *HortScience* 39:798 (abstract).
  20. \*Arnold, M.A., R. Cabrera, and G.V. McDonald. 2003. Micronutrient priming affects transplant establishment of four landscape plants on alkaline soils. 2003 American Society for Horticultural Sciences Conference, Providence, RI. *HortScience* 38:776 (abstract).
  21. \*Bryan, D.L., R.D. Lineberger, W.T. Watson, M.A. Arnold, and C.R. Hall. 2003. Propagation of spineless *Acacia wrightii* genotypes. 2003 American Society for Horticultural Sciences Conference, Providence, RI. *HortScience* 38:861 (abstract).
  22. \*Amaya-Carpio, L., F.T. Davies, Jr., T. Fox, A. Cartmill, M.A. Arnold, and C. He. 2003. Effect of arbuscular mycorrhizal fungi and organic fertilizer on photosynthesis, growth, nutrient uptake and root phosphatase activity of *Ipomoea carnea* subsp. *fistulosa*. 2003 American Society for Horticultural Sciences Conference, Providence, RI. *HortScience* 38:810 (abstract).
  23. \*Arnold, M.A., W.A. Mackay, J.M. Parsons, L. Stein, S.W. George, T.D. Davis, R.D. Lineberger, H.B. Pemberton, and C.B. McKenney. 2002. Development of new woody plants by the Texas Coordinated Education and Marketing Assistance Program. *Metropolitan Tree Improvement Alliance (METRIA) Landscape Plant Symposium on Plant Development and Utilization*, Asheville, N.C., May 23-25, 2002. <http://fletcher.ces.state.nc.us/programs/nursery/metria>.
  24. \*Mackay, W.A., S.W. George, T.D. Davis, M.A. Arnold, R.D. Lineberger, J. Parsons, L. Stein, H.B. Pemberton, and C.B. McKenney. 2002. Texas Superstars™, identifying and promoting superior landscape plants that have minimal environmental impact on urban communities. *Urban Agriculture Symposium*, Texas A&M University Res. and Ext. Center at Dallas, Dallas, Texas, May, 2002. (abstract)
  25. \*Bryan, D.L., G.V. McDonald, and M.A. Arnold. 2001. Paclobutrazol and uniconazole applications improve the quality of container-grown bush morning glory. 2001 Annual Conference of the American Society for Horticultural Sciences, Sacramento, CA. July 22-25, 2001. *HortScience* 36:499 (abstract).
  26. \*McDonald, G.V. and M.A. Arnold. 2001. Paclobutrazol and uniconazole applications affect production quality and subsequent landscape performance of blue plumbago. 2001 Annual Conference of the American Society for Horticultural Sciences, Sacramento, CA. July 22-25, 2001. *HortScience* 36:431 (abstract).
  27. \*MacAlpine, C., D. Lineberger, J. Parsons, M. Arnold, S. George, W. Mackay, C. McKenney, T. Davis, and G. Grant. 2001. Texas Superstar.com—web-based promotion of a plant trailing program. *HortScience* 36:476. (abstract).
  28. \*Arnold, M.A., S.W. George, and J.M. Parsons. 1998. Coordinated education and marketing assistance program (CEMAP): a case-study in cooperative industry / university state-wide plant trialing and promotion. *METRIA 10, Proc. of the 10th Conference of the Metropolitan Tree Improvement Alliance*, St. Louis, MO. (M.A. Arnold and T. Ranney, eds.), Sept. 30 and Oct. 1, 1998. <http://fletcher.ces.state.nc.us/programs/nursery/metria/metria10/Arnold.htm> (web-published proceedings).

29. \*McWilliams, E.L. and M.A. Arnold. 1998. Horticultural history repeating itself: climatic fluctuation, dispersal, and the invasion lag phase of exotic plants on the Texas A&M University campus. *METRIA 10, Proc. of the 10th Conference of the Metropolitan Tree Improvement Alliance*, St. Louis, MO. (M.A. Arnold and T. Ranney, eds.), Sept. 30 and Oct. 1, 1998. <http://fletcher.ces.state.nc.us/programs/nursery/metria/metria10/exotics/exotics.htm> (web-published proceedings).
30. \*Arnold, M.A. 1998. Breaking the vegetative cycle of plant materials lectures. *HortScience* 33:509 (abstract 369).
31. \*Arnold, M.A., L.J. Shoemaker, and M.W. Goyne. 1997. Implications of genotypic selection and production practices on root regeneration potential and field establishment of container-grown trees. *HortScience* 32:546 (abstract 683).
32. \*Arnold, M.A. 1996. Improving the availability of under-utilized small trees for Texas. *METRIA 9, Ninth Conference of the Metropolitan Tree Improvement Alliance*, Columbus, OH, Aug. 8-9, 1996, <http://www.hcs.ohio-state.edu/METRIA/arnold/ARNOLD.html>.
33. \*Obst, S.P., C.R. Hall, and M.A. Arnold. 1996. Economic analysis of Arizona ash sequentially produced in Cu-treated or non-treated 0.21, 2.5, and 11.8 liter containers. *HortScience* 31:651 (abstract 502).
34. \*Arnold, M.A. and W.E. Davis. 1994. Adaptability of elite sycamore and sweetgum provenances to field nursery production and establishment following bare-root transplanting. *HortScience* 29:550 (abstract 814).
35. \*Shoemaker, L.J. and M.A. Arnold. 1994. Effects of Spin Out™ treated containers on short term leaching of copper and copper accumulation in recycled irrigation water during growth of corn and baldcypress in sand and bark media. *HortScience* 29:556 (abstract 855).
36. Arnold, M.A. and W.E. Davis. 1993. Delaying budbreak of bare-root Chinese chestnut seedlings with foliar applications of paclotrazol. *HortScience* 28:539 (abstract 616).
37. Arnold, M.A., G.K. Stearman, and R.W. Cripps. 1992. Post-transplant responses of red sunset red maple trees to root pruning and Cu(OH)<sub>2</sub>-treated container production. *HortScience* 27:569 (abstract 007).
38. Arnold, M.A. and E. Young. 1990. Chilling enhancement of root regeneration in apple can occur without budbreak or growth of root suckers. *HortScience* 25:1127-1128 (abstract 457).
39. Arnold, M.A. and E. Young. 1989. Dyes facilitate distinction between regenerated and existing roots. *Program and Abstracts 86th Annual Meeting of the Amer. Soc. Hort. Sci.* p.108 (abstract 375).
40. Arnold, M.A. and E. Young. 1989. Interactions between chilling and root pruning on new root and shoot growth in seven species of *Malus*. *Program and Abstracts 86th Annual Meeting of the Amer. Soc. Hort. Sci.* p. 108 (abstract 374).
41. Arnold, M.A., RD Lineberger, and D.K. Struve. 1988. Influence of copper on in vitro rooting and subsequent growth of microcuttings of paper birch. *HortScience* 23:787 (abstract 492).
42. Arnold, M.A. and D.K. Struve. 1987. An improved container production method for green ash and red oak. *HortScience* 22:1100 (abstract 465).



## Volunteered Regional Presentations.

1. \*Arnold, M.A., S.T. Carver, and A.R. King. 2011. Providing the green industry alternatives to potentially invasive exotic species. 2011 Texas Invasive Plant and Pest Conference, The Lady Bird Johnson Wildflower Center, Austin, TX, Nov. 8-10, 2011. *Texas Invasive Plant and Pest Conference Program and Abstracts* p. 7-12 (Abstract 1).
2. \*Carver, S.T., M.A. Arnold, D.H. Byrne, A.R. Armitage, A.R. King. 2011. *Assessing variation in vegetative and floral morphology of four native Gulf Coast species for use as ornamental groundcovers*. Southern Region of the American Society for Horticultural Sciences, Corpus Christi, Texas, Feb. 5 – 8, 2011. *HortScience* 46(9):S36. (Abstr.).
3. \*Carver, S.T., M.A. Arnold, D.H. Byrne, A.R. Armitage, and A.R. King. 2010. *Assessing variation in vegetative and floral morphology of four native Gulf Coast species for use as ornamental groundcovers*. Graduate Student Poster Presentations Fall 2010, College Station, TX, Dec. 1, 2010.
4. \*Denny, G.C. and M.A. Arnold. 2008. Effect of provenance on salinity tolerance of *Taxodium*. Southern Region American Society for Horticultural Sciences, Dallas, Texas. *HortScience* 43(3): 610 (abstract).
5. \*Harp, D.A., R.I. Cabrera, W.A. Mackay, J.J. Sloan, and M.A. Arnold. 2008. Preliminary evaluation of open-cell foam for extensive green roof systems in Texas. Southern Region American Society for Horticultural Sciences, Dallas, Texas. *HortScience* 43(3):613 (abstract).
6. \*McDonald, G.V., G. Denny, A. King, D. Bryan, M.A. Arnold, and D.L. Creech. 2008. Expression of leaf blight symptoms vary among provenances of *Taxodium distichum* (L.) L.C. Richard. Southern Region American Society for Horticultural Sciences, Dallas, Texas. *HortScience* 43(3):610 (abstract).
7. \*Arnold, M.A., M.W. Goynes, D.C. Wilkerson, B.J. Lesikar, M.S. Meche, and G.V. McDonald. 2004. Use of recycled nursery runoff from mixed stand wetlands influences container production of four tree species. 2004 Southern Region American Society for Horticultural Sciences Conference, Tulsa, OK., Feb. 14-16, 2004. *HortScience* 39:665 (abstract).
8. \*Bryan, D.L., M.A. Arnold, R.D. Lineberger, and W.T. Watson. 2004. Vegetative propagation and subsequent container production of a weeping *Ulmus parvifolia* clone. 2004 Southern Region American Society for Horticultural Sciences Conference, Tulsa, OK., Feb. 14-16, 2004. *HortScience* 39:652 (abstract).
9. \*Denny, G.C., M.A. Arnold, L.A. Valdez Aguilar, and D.W. Reed. 2004. A comparison of factorial and mixture experimental designs applied to container crop production. 2004 Southern Region American Society for Horticultural Sciences Conference, Tulsa, OK., Feb. 14-16, 2004. *HortScience* 39:664 (abstract).
10. \*McDonald, G.V. and M.A. Arnold. 2004. Greenhouse production applications of paclobutrazol and ancymidol induced residual effects on landscape growth of pansies. 2004 Southern Region American Society for Horticultural Sciences Conference, Tulsa, OK., Feb. 14-16, 2004. *HortScience* 39:664 (abstract).
11. \*Arnold, M.A., G.V. McDonald, and G. Denny. 2003. Production responses of *Brunfelsia pauciflora*, *Ligustrum japonicum*, and *Buxus microphylla* to a new micronutrient fertilizer, Total Micro Care™. *Proc. Southern Nursery Association Res. Conf.* 48:66-70.
12. \*de Carpio, L.A., F.T. Davies, Jr., and M.A. Arnold. 2003. Effect of commercial mycorrhiza on growth, survivability, and subsequent landscape performance of selected container grown ornamental nursery crops. *Proc. Southern Nursery Association Res. Conf.* 48:41-44.
13. \*Arnold, M.A. and G.V. McDonald. 2003. Masonry color affects establishment of Texas redbud and baldcypress with brick-on-sand pavement. 2003 Southern Region American Society for Horticultural Sciences Conference, Mobile, AL., Feb.1-3, 2003. *HortScience* 38:1293 (abstract).
14. \*Arnold, M.A. and G.V. McDonald. 2002. Planting depth and mulching depth: do they matter? Southern Region American Society for Horticultural Sciences, Orlando, FL., Feb. 2-5, 2002. *HortScience* 37:1163-1164 (abstract).
15. \*Arnold, M.A. 2001. Origin of multiple trunks affects crapemyrtle form in the landscape. Meetings of

- the Southern Agricultural Scientists and Southern Region American Society of Horticultural Science, Fort Worth, Texas, January 27-30, 2001. *HortScience* 36:848 (abstract).
16. \*Morgan, C.D., L.W. Barnes, and M.A. Arnold. 2001. Evaluation of selected *Zinnia* L. taxa for heat, bacterial leaf blight, and powdery mildew tolerance in central Texas. 2000 Southern Region American Society for Horticultural Sciences Annual Meeting, Lexington, KY, Jan. 30-31, 2000. *HortScience* 36:838 (abstract).
  17. \*Arnold, M.A. 2000. Integrating plant trials into teaching and graduate research programs. 2000 Southern Region American Society for Horticultural Sciences Annual Meeting, Lexington, KY, Jan. 30-31, 2000. *HortScience* 35:563 (abstract).
  18. \*Denny, G.C. and M.A. Arnold. 2000. Effects of Substrate Composition, K-IBA, and Physiological Maturity on Rooting of *Cotinus obovatus* Raf. Southern Region American Society for Horticultural Sciences Annual Meeting, Lexington, KY, Jan. 30-31, 2000. *HortScience* 35:550 (abstract). **Won 1<sup>st</sup> place in undergraduate paper award.**
  19. \*Mackay, W.A., S. George, T. Davis, M. Arnold, D. Lineberger, J. Parsons, and L. Stein. 2000. Texas superstars: the coordinated educational marketing and assistance program in Texas. Southern Region American Society for Horticultural Sciences Annual Meeting, Lexington, KY, Jan. 30-31, 2000. *HortScience* 35:565 (abstract).
  20. \*Meche, M.S., A.L. Kenimer, M.A. Arnold, and H.J. Lang. 1999. Nutrient loading in constructed wetlands. 59<sup>th</sup> Annual Meeting of the Southern Region American Society for Horticultural Science, Memphis, TN, Jan. 30 - Feb. 2, 1999. *HortScience* 35:835 (abstract).
  21. \*Arnold, M.A. 2000. Species responses to accelerator grower versus black plastic containers. 59<sup>th</sup> Annual Meeting of the Southern Region American Society for Horticultural Science, Memphis, TN, Jan. 30 - Feb. 2, 1999. *HortScience* 35:563 (abstract).
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  25. \*Arnold, M.A. 1997. Tales from the TAMU radio tower – developing an interdisciplinary approach to environmental horticulture. Departmental Seminar, TAMU - Horticultural Sciences, College Station, Texas, Sept. 4, 1997.
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  31. \*Arnold, M.A. 1994. Researching the landscape plant establishment continuum: Where to focus for the

- best return on investment? *Proc. Southern Nurserymen's Assoc. Res. Conf.* 39:328-331.
32. Arnold, M.A. and W.E. Davis. 1992. Provenance selection improves the nursery performance of sycamore and sweet gum seedlings in the field. *Proc. Southern Nurserymen's Assoc. Res. Conf.* 37:137-139.
  33. Arnold, M.A. and E. Young. 1991. A potential method for predicting suckering propensity of apple rootstocks. *Proc. Southern Nurserymen's Assoc. Res. Conf.* 36:144-147.

### **Popular Press and Extension Publications: (\*= while at TAMU):**

(\* = while at TAMU, underlined authors indicate current or former graduate students)

### **Extension / Research Station publications.**

1. \*Files, P., M. Arnold, D. Welsh, and F. Daneillo (Emeritis). 2009. Building a Raised Bed Garden (Revised Edition). B-6102, Texas AgriLife Extension, Texas A&M University System, College Station, TX. p. 10.
2. \*Files, P.J., M.A. Arnold, F.J. Daninello, and D.F. Welsh. 2000. *Building A Raised Bed Garden*. B-6102, Texas Agric. Ext. Ser., Texas A&M University, College Station, TX. p. 10.
3. \*Shoemaker, L.J., M.A. Arnold, and W.C. Welch. 1995. *Water Gardening in Texas*. B-6001, Texas Agricultural Extension Service, Texas A&M University, College Station, TX. p. 14.

### **Popular press articles, Written by the scientist.**

1. \*Pemberton, B., M. Arnold, and D. Rodriguez. 2012 Texas Superstar promotions for 2012. *TNLA Green* 14(1):18-20.
2. \*Arnold, M.A. 2011. Providence provides provenances for proper plants. *Nursery Management* 27(9): 46-49. On line version <http://nmpro.texterity.com/nurserymanagement/201109#pg46>.
3. \*Arnold, M.A. 2010. Road trip, Super Bowl parties, and Horticulture - life is good! *Southern Region of the American Society for Horticultural Sciences Newsletter (preconference)*. November, 2010. pp. 1.
4. \*Arnold, M.A. 2010. Embracing adversity as an opportunity for change. *Southern Region of the American Society for Horticultural Sciences Newsletter* Sept. 2010. pp. 1-2.
5. \*Pemberton, B., M. Arnold, and C. McKenney. 2010. 2011 Texas Superstar®. January 2010, *TNLA Green* 13(1):14-16.
6. \*Arnold, M., E. Bush, R. Cabrera, G. Denny, J. Griffin, J. Iles, A. King, G. Knox, G. McDonald, C. McKenney, T. Montague, G. Niu, A. Owings, and D. Struve. 2010. Testing tolerances of *Taxodium*. *Landscape Plant News* 20(3):10-11.
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10. \*Struve, D., J. Sammons, J. Altland, B.L. Appleton, M. Arnold, R. Beeson, J. Cole, and S. Clark. 2007. A team effort. *American Nurseryman* 205(4):36-43
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12. \*Arnold, M.A. 2006. Tropicals as summer annuals – plants that beat the heat? *GMPro: Greenhouse Management & Production* 26(1):42-46.
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14. \*Arnold, M.A. 2004. Variegated tapioca: add tropical flare to Texas' summer landscape. *TNLA Green Magazine* 6(10):26-27.
15. \*Arnold, M.A. 2004. Chinkapin oak: an excellent native Texas shade tree. *TNLA Green Magazine*

- 6(10):25.
16. \*Arnold, M.A. 2002. Lacey oak is a real Texas lady. In: *Fall in Love With Texas Gardening! Go Texan*, Texas Dept. of Agric., Austin, TX. pages unnumbered.
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  21. \*Arnold, M.A. 1999. One man's weed is another man's flower. *Landscape Journal*, Spring 1999. pages unnumbered.
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  27. \*Wilkerson, D., M. Arnold, and B. Lesikar. 1996. Increase profits while protecting the environment. *Grower Talks* 59(13):52-58.
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  42. Arnold, M.A. 1991. Plant provenance. *Amer. Nurseryman* 174(4):7.
  43. Arnold, M.A. 1991. Nurserymen's input is needed for improvement of the Tennessee certified nursery professional exam. *Tennessee Nurserymen's Assoc. Newsletter* 3(13):10-12.
  44. Arnold, M.A. 1991. Mining for gems in a mountain of monoculture. *Tennessee Nurserymen's Assoc. Newsletter* 2(12):5-7.
  45. Arnold, M.A. 1991. High quality nursery stock is a must in today's competitive market. *Tennessee Nurserymen's Assoc. Newsletter* 3(11):7.
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### **Popular press articles written about scientist's work by others:**

1. Anonymous. 2011. The votes are in: new ASHS officers. *Amer. Soc. for Hort. Sci. Newsletter* 27(9):1, 8-9.
2. Burns, R. 2010. 'Dakota Gold' A Texas superstar 'weed-to-riches' story. *Texas Gardener* 29(6):38-39 (features plant developed by M.A. Arnold and images by M.A. Arnold).
3. D'Abreau, M. 2010. Toothache? Chew on a tree! *Florida Monthly*, August 210. p. 30-31. (features images by M.A. Arnold).
4. International Society of Arboriculture. 2009. Research you need to read. September 2009. *Arborist News* 18(5):56-57.
5. American Society for Horticultural Sciences. 2010. Common transplanting practices analyzed for impact on lacebark elm. [http://ashs.org/pressrelease/index.php?option=com\\_content&view=article&id=1080:planting-depth-affects-popular-landscape-tree&catid=1:hortsience&Itemid=3](http://ashs.org/pressrelease/index.php?option=com_content&view=article&id=1080:planting-depth-affects-popular-landscape-tree&catid=1:hortsience&Itemid=3). Last accessed 16 March 2010.
6. Burns, R. 2010. Dakota Gold: a Texas Superstar 'weed-to-riches' story. *AgriLife News* (May 14, 2010, press release). <http://agnews.tamu.edu/showstory.php?id=1905>.
7. Huber, K. 2010. Top 10 Texas Superstar plants. *The Houston Chronicle*, April 15, 2010. <http://www.chron.com/dispatch/story.mpl/gardening/top10/6960023.html>
8. International Society of Arboriculture. 2010. Research you need to read. April 2010. *Arborist News* 19(2):54-55.
9. Anthony, C. 2009. Texas Superstars tough, beautiful. *The Eagle*, Bryan, TX. May 15, 2009, p. B6. Also online at <http://www.theeagle.com/gardening/Texas-Superstars-tough-beautiful>
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11. Fannin, B. 2009. AgriLife extension, research professionals honored at SAAS meeting. *AgriLife News & Public Affairs*, Feb. 10, 2009, <http://agnews.tamu.edu/showstory.php?id=1002>.
12. Anding, K. 2008. Horticulture gardens are worth preserving. *The Eagle* 134(232):A4.
13. Bates, J.A. 2008. A&M can lead the way in protecting nature. *The Eagle* 134(240):A8.
14. Anonymous. 2007. Research you need to read. *Arborist News* 16(1):58-59.
15. Tornio, S. 2007. The life of a plant hunter. pp. 190-193. In: *The Best of Birds & Blooms 2008*. S. Tornio (ed.). Birds & Blooms Books, Reiman Media Group, Inc., Greendale, WI.

16. Texas Department of Agriculture. 2007. Texas Superstars™. Strong and stunning plants for Texans. Go Texan, Texas Department of Agriculture, Austin, Texas. pages unnumbered.
17. Tornio, S. 2007. The life of a plant hunter. *Birds & Blooms* 13(4):52-55. Also on the web at <http://www.birdsandblooms.com/The-Life-of-a-Plant-Hunter/detail.aspx>
18. Barrington, C. 2007. How does your garden grow? *Texas Highways* 54(3):50-56.
19. Landry, T. and E. Hiler. 2006. Floriculture faculty highlights. *Floriculture Focus* 2(1):3-4.
20. Phillips, K. 2006. Heat-hardy new native. *Ornamental Outlook* July 2006 p. 25.
21. Phillips, K. 2006. Students plant seed of encouragement for horticulture professor. *AgNews News and Public Affairs*, Texas A&M University System Agriculture Program, College, Station, TX (press release). <http://agnews.tamu.edu/dailynews/stories/HORT/Mar1306a.htm>
22. Turner, J. 'Dakota Gold' Helenium. *Neil Sperry's Gardens* 20(4):14-15. (review of plant release).
23. PanAmerican Seed. 2005. Helenium. *Varietades Nuevas 2006*, PanAmerican Seed Co., West Chicago, IL. p. 5.
24. Parsons, J. 2004. Texas lilac vitex™: the next mega-superstar plant for Texas. *TNLA Green Magazine* 6(10):23-27.
25. Rose, M. 2004. Dr. Mike Arnold, Landscape Horticulture Professor – Texas A&M University. *en Plant: Horticulture and Crop Science in Virtual Perspective, Careers*. The Ohio State University, Columbus, OH. <http://enplant.osu.edu/careers/profiles/display.lasso?-KeyValue=32796&-Token.Action=>. Last accessed 27 Sept. 2004.
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27. International Society of Arboriculture. 2005. Research you need to read: Planting depth and mulch thickness affect establishment of green ash and bougainvillea goldenrain tree. *Arborist News* 14(4):39.
28. Le Duc, A. 2005. Landscape Plants For Texas and Environs, 2<sup>nd</sup> Ed.(book review). *HortTechnology* 15:414-415.
29. PanAmerican Seed. 2005. Dakota gold helenium. *Fantastic Flowers*, PanAmerican Seed Co., West Chicago, IL. p. unnumbered.
30. PanAmerican Seed. 2005. Dakota gold helenium digital images. 2006 Photo Library (CD PAS05042). PanAmerican Seed, Ball Horticultural Co., West Chicago, IL.
31. PanAmerican Seed. 2005. Dakota gold helenium plug production. *2006 PanAmerican Seed Product Information Guide*. PanAmerican Seed, West Chicago, IL. p. 63.
32. Burns, R. 2004. From El Paso to Texarkana: new Texas Superstar oak shines in adaptability. *Agricultural Communications News Release*, 11 Oct. 2004.
33. Combs, S. 2004. TDA: Autumn is prime time for Texas Superstars™. *TNLA Green Magazine* 6(11):24.
34. Good, M. 2004. Spring 2005 Plant material. *TNLA Green Magazine* 6(10):22-24.
35. Texas Nursery and Landscape Association. 2003. TNLA Education and Research Foundation research grant results. *TNLA Green Magazine* 5(11):31. (Trade journal)
36. Stephens, J.G. 2003. *Texas A&M University Horticultural Gardens*. pp. 125-129. In: *Touring Texas Gardens*. Republic of Texas Press, Plano, TX. p. 270.
37. Robinson, L. 2003. TAMU: The cutting edge collegiate collection. *Texas Gardener* 22(4):38-41. (popular magazine)
38. Amer. Soc. Hort. Sci. 2002. New books: Landscape Plants for Texas and Environs, 2<sup>nd</sup> Ed. *Amer. Soc. Hort. Sci. Newsletter* 18(10):10. (Professional organization newsletter)
39. Garden Writers Assoc. 2002. Members' Latest Publications: Landscape Plants for Texas and Environs, Second Edition. *Quill and Trowel Newsletter* No. 6, Dec. 2002. p. 26. (Professional newsletter)
40. Hamm, M.M. and K. Huber. 2002. Make room on the shelf for home design, gardening tomes. *Houston Chronicle* 102(55):3D. (Regional newspaper)
41. Mueller, C.W. 2002. Book review: Landscape Plants for Texas and Environs, Second Edition. *Horticulture Update* November/December, 2002.
42. <http://aggie-horticulture.tamu.edu/extension/newsletters/hortupdate/nov02/art7nov.html> (Extension publication)
43. Paul, J. 2002. Lacey oak designated as Texas Superstar™. News release by Extension Communications

- Specialist, Jennifer Paul, on Oct. 18, 2002. (Press release)
44. Mueller, C.W. 2002. Book review: Landscape Plants for Texas and Environs, Second Edition. *TNLA Green Magazine* 4(11):27. December 2002. (Trade journal)
  45. Phillips, K. 2001. Flower beds should rise to the occasion. *AgNews* Feb. 16, 2001. <http://agnews.tamu.edu/dailynews/stories/HORT/Feb1601a.htm>. (Sealy News, Circ. W. 5,500, March, 2001, Texas Press Clipping Bureau, Dallas, TX). (Press release)
  46. Fuller, D. 2000. Environmental concerns: irrigation run-off. *TNLA Green Magazine* 2(11):32-33. (Trade journal)
  47. Staff writer. 2000. Texas, Florida spotlight local plant selections. *American Nurseryman* 192(6):10, 16. (Trade journal)
  48. Staff writer. 2000. The Texas Superstar™: promoting the Texas plants of tomorrow today. *TNLA Green Magazine* 2(10):12-14. (Trade journal)
  49. Hofer, M. 2000. Mulch mania. *HGTV Ideas* 5(4):20-23. (Popular magazine)
  50. Gerston, J. (ed.). 1999. Horticulture lab recycles irrigation runoff. *Texas Water Savers* 5(3):5. (Trade journal).
  51. Phillips, Kathleen. 1998. Horticulture class gets concrete information, firm foundation. Press release from Agriculture Communications on the research, teaching, and extension programs at the TAMU Nursery / Floral Field Laboratory. <http://agnews.tamu.edu/stories/HORT/Oct2798a.htm>. (Press release)
  52. Huber, Kathy (Houston Garden Editor). 1998. Plant garden books under holiday tree (contains a review of *Landscape Plants for Texas and Environs* by M.A. Arnold). *Houston Chronicle*, Saturday 12/19/98, Section: Houston, Page 1: Edition: 2 Star. (Regional newspaper)
  53. Gainer, B.L. 1998. Containing root problems. *American Nurseryman* 187(12):34-39. (Trade journal)
  54. Welsh, D.F. 1997. *The Weekend Gardener*. Brazos Valley This Morning, KBTX-TV, Bryan, October 24, Television segment on the news.
  55. Parsons, G. 1997. Growth at the Texas A&M Nursery, radio release, 146 outlets representing 200 stations in Texas and adjacent states, December 1, 1997. (Press release)
  56. Coghlan, K. 1996. Engineers look to mother nature to clean up polluted water supply. *The Eagle* (Bryan/College Station, TX, newspaper) 122(218):A1 & A3. (Local newspaper)
  57. Texas Assoc. Nurserymen (staff writer). 1996. Target 2000 Texas Agricultural Extension Service Environmental Plan (work featured as a part of the article). *The Texas Nurseryman* 26(5):15-17. (Trade journal)
  58. Herman, B.H. (ed.). 1994. Cupric chloride improves woody plant rooting In Vitro. *Agricell Report* 23(4):27-28 (Trade journal).
  59. Appleton, B.L. 1993. How we achieve better roots with coated containers. *Nursery Manager*, July 1993. p. 90-94 (Trade journal).
  60. Appleton, B.L. 1993. Nursery production alternatives for reduction or elimination of circling tree roots. *J. Arboriculture* 19:383-388 (Refereed journal).
  61. Tindell, R.T. (ed.). 1993. The cutting edge. *Landscape and Nursery Digest* 27(11):6-8 (Trade journal).

**Grantsmanship:**

(\* = while at TAMU, underlined authors indicate current or former graduate students)

Monetary divisions of multi-PI grants are indicated where funds were allocated to separate accounts. For those which were not subaccounted, a percentage estimate of the portion Dr. Arnold administered/controlled is indicated. The remaining grants were administered jointly with all PIs having access to the funds and utilizing those funds as needed to accomplish the projects. Most of these projects were physically housed at the Texas A&M University Nursery / Floral Crops Research and Education Facility and many were multi-disciplinary in nature. As a PI or co-PI, Dr. Arnold has raised a total of over half a million dollars in funds from sources outside the university, internal competitive grants, and fee-based programming. Dr. Arnold assisted Dr. Wilkerson's efforts to raise another \$90,000 for temporary classrooms and co-authored proposals for the TAMU Signature program positions that resulted in commitments for a new faculty position funded at \$64,000 per year beginning in FY 2007.

***Grants/Contracts/Royalties/Donations***

	<b>Number</b>	<b>Total amount</b>
<b>Funding sources external to University (research)</b>	<b>69</b>	<b>\$635,950</b>
<b>Internal funding sources (research &amp; teaching)</b>	<b>12</b>	<b>\$209,915</b>
<b>Fee-based programming</b>	<b>18</b>	<b>\$41,506</b>
<b>Subtotal of programmatic funding</b>	<b>99</b>	<b>\$887,371</b>
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<b>Administrative efforts for Department</b>	<b>1</b>	<b>\$64,000 yearly (Begin fiscal 2007)</b>

***Research Funding From Sources External To The University:***

\$158,847	*Developing Production Protocols for Xxxx xxxxx (blocked out due to nondisclosure agreement) for Pharmaceutical Extractions. Berry Pharmaceuticals. Funded \$158,847.
\$24,790	*Does Size Really Matter With Container-Grown Trees? Hyland Johns Grant, Tree Research and Education Endowment Fund. M.A. Arnold. Funded \$24,790.
\$400	*Participation in Presentation of Texas Excellence in Landscaping (TEIL) Awards. Texas Nursery and Landscape Association. \$224 cash for travel, plus room and meals in kind.
\$8,000	*Cutting Baldcypress Off At The Knees. J. Frank Schmidt Family Charitable Foundation. M.A. Arnold. \$30,254.requested, funded for \$8,000.
\$609	* Recent Research on Transplant Establishment Planting Decisions – Giving Trees a Fighting Chance in the Urban Jungle! (travel funding) American Society of Consulting Arborists. M.A. Arnold. Funded \$609.
\$9,931	*Does Propagation Method Impact Survival and Growth of Below Grade Planted Trees? Duling Grants Program, Tree Research and Education Fund. M.A. Arnold. Funded \$9,931.
\$9,982	*Cutting Baldcypress Of At The Knees Duling Grants Program, Tree Research and Education Fund. M.A. Arnold. Funded \$9,982.
\$2,000	*Determination of drought tolerance and parentage of live oak ( <i>Quercus virginiana</i> ) and escarpment live oak ( <i>Quercus fusiformis</i> ) accessions for adaptation to demanding environments.



- \$11,017. Tom's Tree Place through Texas Tech University. C. McKenney, T. Montague, R. Wright, and D. Auld. (subcontract portion for M.A. Arnold \$2,000).
- \$10,000 \*Planting Depth Impacts on Production and Landscape Establishment of Container-Grown Trees (a progress report and request for renewal for follow-up experiments). J. Frank Schmidt Family Charitable Foundation. M.A. Arnold (PI).
- \$1,150 \*Travel funds for M.A. Arnold and D.L. Bryan to present our laboratory group's work at the Landscape Below Ground III Conference in Lyle, IL. The Morton Arboretum. M.A. Arnold and D.L. Bryan (co-PIs).
- \$1,500 \*Images for on-line plant identification portion of Texas Master Certified Nursery Professional exam. Texas Nursery and Landscape Association. M.A. Arnold (PI).
- \$125 \*Travel expenses for talk to Southeast Texas Nursery & Greenhouse Growers Association. Southeast Texas Nursery & Greenhouse Growers Association. M.A. Arnold (PI).
- \$5,000 \*Development of trailing low water requiring perennials as hanging basket, groundcover, and patio planter crops. \$5,000. Texas Ornamentals Enhancement Endowment. Michael Arnold (PI) and Garry McDonald (cooperator).
- \$7,441 \*Assessing field level cold tolerance in improved genotypes of *Taxodium distichum* tolerant of alkaline soils and drought. \$7,441. TREE Fund. M.A. Arnold (PI).
- \$7,500 \*Soil, irrigation, and production factors influencing establishment of container-grown trees at various planting depths. TREE Fund. M.A. Arnold (PI).
- \$10,000 \*Investigating impacts of planting depth during production and transplant on initial landscape establishment (a progress report and request for renewal). J. Frank Schmidt Family Charitable Foundation. M.A. Arnold (PI).
- \$18,708 \*A long-term comparison of new controlled release fertilizers versus two industry standards. M.A. Arnold. Crops Inspection Services.
- \$9,367 \*Short-term comparison of new CRF versus an industry standard on tropical nursery crops. M.A. Arnold (PI). Crops Inspection Services.
- \$10,000 \*Investigating impacts of planting depth during production and transplant on initial landscape establishment. M.A. Arnold (PI). J. Frank Schmidt Family Charitable Foundation.
- \$5,000 \*Donation to support plant growth regulator work in container nursery crops. M.A. Arnold (PI). Bayer, Inc.
- \$1,500 \*Subcontract to provide plant materials database information and images to Texas Cooperative Extension for use in a database for Texas landscape plant selection. Texas Cooperative Extension and Texas Nursery and Landscape Association.
- \$5,000 \*Donation to support root modification research in containers. M.A. Arnold (PI). Root Control, Inc.
- \$545 \*Symposium on efficient water use in the urban landscape travel costs to present a paper entitled "Alternative landscape uses for nursery runoff and constructed wetland effluent". New Mexico State University.
- \$5,000 \*Screening potential new tropical ornamentals for alkalinity, salinity, and irradiance tolerances. M.A. Arnold (PI). Texas Ornamental Enhancement Endowment.
- \$3,500 \*Shrub rose responses to production in Smart Pots and conventional containers using two contrasting substrates. M.A. Arnold (PI). Root Control, Inc.
- \$2,406 +
- \$7,931 \*Stopping tree losses from buried root systems: a national research and technology transfer coalition. G. Watson (PI) plus D. Airhart, M.A. Arnold, S.D. Day, J.R. Harris, D. Fare, E.F. Gilman, G. Johnson, J. Gillman, C. Giblin, G. Kling, D. Williams, T.D. Sydnor, and R. Rathjens (Cooperators). The National Urban and Community Forestry Advisory Council 2004 Challenge Cost-Share Program. \$109,937, funds allocated to M.A. Arnold in 1<sup>st</sup> year \$7,931, 2<sup>nd</sup> year \$2,406.
- \$11,000 \*Ozone (O<sub>3</sub>) efficacy in the treatment of recycled nursery irrigation water. G.V. McDonald (graduate student) and M.A. Arnold (PI), Horticulture Research Institute.

- \$4,972 \*Ozone efficacy in the treatment of recycled nursery irrigation water. G.V. McDonald (graduate student) and M.A. Arnold (PI), Texas Nursery & Landscape Association. 2 years.
- \$3,500 \*Mineral nutrition and nutrient use efficiency of container-grown trees. D.K. Struve (PI), plus B.L. Appleton, S. Clark, J. Cole, R. Beeson, J. Altland, and M.A. Arnold (cooperators). Horticultural Research Institute (\$3,500 for M.A. Arnold, total project \$49,020) .
- \$24,920 \*Interactions among planting depths and mulching applications on establishment of hypoxia tolerant and intolerant trees. M.A. Arnold (PI). Funded by the TREE FUND: Tree Research & Education Endowment Fund 2003 Hyland R. Johns Grant Program. 1 year.
- \$5,000 \*Continuing Investigations of the Impacts of Planting Depth During Production and Transplant Establishment on Initial Landscape Establishment. M.A. Arnold (sole PI, 100 %). Funded by the J. Frank Schmidt Family Charitable Foundation. 1 year continuation.
- \$2,000 \*Evaluation of Drought, Salt and High pH Soil Tolerance of *Taxodium* Provenances and Implications for Use in Urban Landscapes. M.A. Arnold (PI) and G. Denny (graduate student). Funded by the J. Frank Schmidt Family Charitable Foundation. 1 year.
- \$4,000 \*Evaluation of drought, salt, and high pH tolerance of *Taxodium* provenances and implications for use in urban forests. M.A. Arnold (PI) and G. Denny ( graduate student). Funded by the Texas Ornamental Enhancement Endowment. 1 year.
- \$4,000 \*Interactions among planting depth and mulching applications on establishment of hypoxia tolerant and intolerant trees. M.A. Arnold (PI, 100%). Funded by the J. Frank Schmidt Family Charitable Foundation. 1 year.
- \$4,870 \*Micronutrient priming for improved plant establishment in alkaline soils. M.A. Arnold (co-PI, 90%) and R. Cabrera (co-PI). Funded by the Texas Nursery and Landscape Association Research and Education Foundation. 1 year.
- \$1,000 \*Drought, alkalinity and salt tolerance of *Taxodium* provenance and implications for landscape use. G. Denny (graduate student) and M.A. Arnold (co-PI, 50%). Funded by the Landscape Plant Development Center. 1 year.
- \$5,536 \*Screening two species of nursery crops for response to a micronutrient uptake enhancement substrate supplement. M.A. Arnold (sole PI, 100%). Funded by Whitmeyer Microgen. 6 months.
- \$10,000 \*Ozone (O<sub>3</sub>) efficacy on reduction of *Phytophthora* organisms in recirculated horticultural irrigation water. \$10,000. G.V. McDonald (graduate student) and M.A. Arnold (co-PI, 80 %). Funded by the Texas Water Resource Institute: Equipment Purchase Grant. 1 year.
- \$2,500 \*Interactions among planting depths and mulching applications on tree establishment in suburban landscapes. M.A. Arnold (PI, 100%) and G.V. McDonald (graduate student) Funded by the Texas Ornamental Enhancement Endowment. 1 year.
- \$5,000 \*Ozone (O<sub>2</sub>) efficacy in the treatment of recycled irrigation water. G.V. McDonald (graduate student) and M.A. Arnold (co-PI, 80%). Funded by the Texas Ornamental Enhancement Endowment. 1 year.
- \$6,910 \*A comparison of production responses of three species of nursery crops to a new micronutrient fertilizer. M.A. Arnold (sole PI, 100 %). Funded by Whitmeyer Microgen. 9 months.
- \$1,000 \*Option agreement between Ball Horticulture Corporation and The Texas A&M University System for *Helenium amarum* selections (TAMUS 1699)-M.A. Arnold (sole PI). \$1,000 up front, 4% royalty on subsequently developed releases. Funded by Ball Horticulture Corp. 3 year renewable agreement.
- \$48,786 \*Automated irrigation water management using reclaimed nursery runoff and treated domestic wastewater on cut flowers and bedding plants. \$48,786. M.A. Arnold (co-PI, 40%), B.J Lesikar, A. Gross, and D.F. Hoffman. Funded by the Texas-Israel Exchange Board, Jewish National Fund/Keren Kayemet Leisrael, Texas Dept. Agriculture. 1 year.
- \$4,913 \*Effects of Masonry Light Absorbency on Root Temperatures & Street Tree Growth. M.A. Arnold (sole PI, 100%). Funded by the International Society of Arboriculture Research Trust John Z. Duling Grant Program. 1 year.

- \$10,082 \*Proportioning peat in nursery mixes for optimal fertilizer use and plant growth. M.A. Arnold (co-PI, 90%) and D.C. Wilkerson. Funded by Premier Horticulture, Quebec, Canada. 1 year.
- \$3,735 \*Addenda to the proposal entitled: Proportioning peat in nursery mixes for optimal fertilizer use and plant growth. M.A. Arnold (co-IP, 90 %) and D.C. Wilkerson. Funded by Premier Horticulture, Quebec, Canada. 6 months.
- \$3,000 \*Efficacy of mixed stand constructed wetlands for remediation of nursery / greenhouse runoff. M.A. Arnold (co-PI, 90%), G.V. McDonald, and D.C. Wilkerson. Funded by the Texas Ornamental Enhancement Endowment. 1 year.
- \$3,000 \*Identification and solving of production limiting problems for adapted Texas landscape plants. M.A. Arnold (co-PI, 90%), G.V. McDonald (graduate student), and D.C. Wilkerson. Funded by the Texas Ornamental Enhancement Endowment. 1 year.
- \$15,000 \*Impacts of warm and cool season wetland plants on removal of nitrates from container nursery runoff. M.A. Arnold (sole PI, 100%). Funded by the Horticultural Research Institute. 1 year.
- \$4,000 \*Unsolicited grant in aide of M.A. Arnold's research program. M.A. Arnold (sole PI, 100%). Uniroyal Chemical. Donated. Funds utilized to test growth regulators as possible solutions to production problems with two potential crops for promotion in the joint industry / university Coordinated Education and Marketing Assistance Program. No time limit.
- \$2,000 \*Cool season growth responses of two evergreen shrubs to selected controlled-release fertilizers via media pre-incorporation or surface application. M.A. Arnold (sole PI, 100%). Funded by I.M.C. Vigoro. 1 year.
- \$2,000 \*Integrating constructed wetland and bio-reactor column technologies into nursery water management plans. M.A. Arnold (cooperator, <10%), D.C. Wilkerson (PI), and B. Lesikar. Funded by the Texas Ornamental Enhancement Endowment Competitive Grants Program. 1 year.
- \$1,000 \*Contrasting growth responses and media temperatures of five woody species grown in accelerator® versus conventional nursery containers. \$1,000 in in-kind materials. M.A. Arnold (sole PI, 100%). Funded by Accelerator Growers Association. 2 years.
- \$3,000 \*Modeling genetic capture of superior root regeneration capacity via cutting propagation of selected sycamore families. M.A. Arnold (sole PI, 100%). Funded by the TAMU Office Budget and Grants. 1 year.
- \$2,989 \*Plant growth responses of three woody species to selected controlled-release fertilizers via media preincorporation or surface application. \$2,989. M.A. Arnold (sole PI, 100%). Funded by I.M.C. Vigoro. 1 year.
- \$4,672 \*Size control and post-production growth of container-grown perennial verbena, cherry sage, and lantana drenched with bonzi (paclobutrazol). M.A. Arnold (sole PI, 100%). Funded by the Uniroyal Chemical Co. 1 year.
- \$63,175 \*A comparative analysis of the costs of production of three gallon container-grown landscape plants with and without spin out™. M.A. Arnold (co-PI, 50%) and C.R. Hall. Funded by the Griffin Corp. 3 years.
- \$12,525 \*Initial comparisons of plant growth responses to mineral 22 and alternative commercial micro-nutrient formulations. M.A. Arnold (sole PI, 100%). Funded by the Instituto de Ingenieria UNAM (National University of Mexico). 1 year.
- \$2,033 \*Comparisons of plant growth responses to selected controlled-release fertilizers on *Hibiscus rosa-sinensis*. M.A. Arnold (co-PI, 50%) and H. J. Lang. Funded by the Scotts Co. 6 months.
- \$12,963 \*Effects of cupric hydroxide-treated containers on the performance of annual and perennial bedding plants in landscape and retail sales areas. M.A. Arnold (co-PI, 50%) and H.J. Lang. Funded by the Griffin Corp. 1 year.
- \$1,500 \*Donation of nursery/landscape supplies for small tree projects. M.A. Arnold (sole PI, 100%). Funded by Kinney Bonded Warehouse, Scotts Corp, and Lerio Corp. 3 years.
- \$1,050 \*Donation of travel expenses and honorarium to TAMU Dept. of Horticultural Sciences landscape/nursery teaching and research program from participation of M.A. Arnold in a

	conference at the Iowa State University, Ames, Iowa, 11/29/95 (sole PI, 100%). 1 month.
\$2,340	Travel funds to present first year data from TTU School of Agriculture research project MAATTU1. M.A. Arnold (sole PI, 100%). Funded by the Griffin Corp. 1 month.
\$2,929	Enzyme immunoassay analysis of pesticide transport from nursery plots and cover crop treatment evaluation. Stearman, G.H., M.J. M. Wells, R.W. Cripps, and M.A. Arnold (cooperator). Total grant \$24,801, M.A. Arnold's portion \$2,929 (12%). Funded by State of Tennessee. 3 years.
\$5,218	Effects of Cu(OH) <sub>2</sub> applied to the interior surfaces of containers on growth and establishment of selected herbaceous annual and perennial species during container production and following transplanting. M.A. Arnold (co-PI, 90%) and D.L. Airhart. Funded by the Griffin Corp. 1 year.
\$500	Arranged donation of a greenhouse fog propagation system. M.A. Arnold (sole PI, 100%). Funded by the Triangle Nursery Co. 1 year.
\$350	Arranged the donation of tree seedlings for research project on residual effects of paclobutrazol on root growth of <i>Castanea mollissima</i> . M.A. Arnold (sole PI, 100%). Funded by Boyd Nursery Co. 1 year.
\$750	Establishment of a landscape plant evaluation program. Sauve, R.J. (P.I. at Tennessee State University), S. Schlarbaum and W. Witte cooperators at the Univ. Tenn. and M.A. Arnold cooperator at Tenn. Tech. Univ. Funded by USDA/CSRS 1890 Institution Capacity Building Grants Program for 1991. Submitted via Tennessee State University. M.A. Arnold's portion \$750 (represents < 1% of the entire grant). 3 years.

### ***Internal University Funding:***

#### ***Competitive Funding For research and instructional programs:***

\$7,865	*Endowment funds from Nemcik Endowment to support maintenance of the TAMU Horticultural Gardens. Funded.
\$30,000	*Maintenance funding to sustain the Horticulture Gardens during transition to physical plant control. \$30,000. Internally funded by the Dean's Office in the Texas A&M University College of Agriculture and Life Sciences. Funded.
\$40,000	*A multipurpose mobile power plant with tool attachments for landscape course instruction and nursery/landscape research enhancement. S. Cotner and M.A. Arnold (co-PI, 90%). Funded by a TAMU College of Agriculture and Life Sciences Special Equipment Grant. 1 year.
\$90,000	*Portable classrooms for the Texas A&M University Horticulture Gardens. \$90,000. D.C. Wilkerson (PI), assisted by S. Cotner and M.A. Arnold (cooperator, < 10%). Funded by a TAMU College of Agriculture and Life Sciences Special Equipment Grant. 1 year.
\$1,500	*Development of <i>Helenium amarum</i> as a summer annual for low input landscapes. \$1,500. M.A. Arnold (sole PI, 100%). Texas A&M University Mini-Grant Program. 1 year.
\$10,000	*TAMU - Horticultural Sciences / TAMU - Dept. Agricultural Engineering Water Management Facility Infrastructure Development at the Nursery/Floral Crops Research & Education Center. M.A. Arnold (co-PI, 50%), B. Lesikar, and D.C. Wilkerson. Faculty Research Development Program. 1 year.
\$1,000	*1997 Initiative award. \$1,000. D.C. Wilkerson and M.A. Arnold (co-PI, 50%). Funded by the TAMU - Horticultural Sciences. 1 year.
\$21,200	*Bioremediation of nursery and greenhouse effluent using constructed wetlands and subsequent recycling for irrigation of ornamental plants grown in organic composts. A.L. Kenimer, H.J. Lang, and M.A. Arnold (co-PI, 30%), and B.J. Lesikar and D.C. Wilkerson (cooperators). Funded by the Interdisciplinary Research Initiatives Grants Program. 1 year.
\$1,000	*Container Production and Establishment of Under-Utilized Small Trees for Texas, \$1,000. M.A. Arnold (sole PI, 100%). Funded by TAMU Faculty Minigrant Project. 1 year.
\$370	*Effects of planting hole configuration on establishment of <i>Quercus virginiana</i> seedlings. \$370. M.A. Arnold (sole PI, 100%). TAMU Research and Graduate Studies Faculty Mini-Grant. 1

- year.
- \$1,000 \*Profiling the Texas A&M University Horticulture Job Opportunities Newsletter content, readership, and perceived value. \$1,000. M.A. Arnold (co-PI, >90%), with support from C. Townsend. TAMU Center for Teaching Excellence Mini-grant. 1 year.
- \$5,980 \*Implementation of biologically-intensive IPM for the Texas nursery/floral industry. 1996 IPM Minigrant Program. K.M. Heinz and B.M. Drees (P.I.'s) and D.C. Wilkerson, M.A. Arnold (<10%), R.D. Lineberger, L.W. Barnes, B. Lesikar, and C.R. Hall (cooperators).

***Fee-based programs and royalties:***

- \$5,635 2011 Support of the CEMAP program IP136-Texas Superstar (\$39,450 from tag sales). C. McKenney, T.D. Davis, M.A. Arnold, R.D. Lineberger, L.A. Stein, B. Pemberton, and R. Rodriguez (co-PIs). Portion attributable to M.A. Arnold \$5,635 (1/7<sup>th</sup> of total \$39,450). 1 year.
- \$2,291 2011 License agreement between Ball Horticultural Company and the Texas A&M University System for *Helenium amarum* selections (TAMUS 1699) – Dr. Michael Arnold.
- \$3,092 2010 Support of the CEMAP program IP136-Texas Superstar (\$21,650 from tag sales). C. McKenney, T.D. Davis, M.A. Arnold, R.D. Lineberger, L.A. Stein, B. Pemberton, and R. Rodriguez (co-PIs). Portion attributable to M.A. Arnold \$3,092 (1/7<sup>th</sup> of total \$21,650). 1 year.
- \$2,906 2010 License agreement between Ball Horticultural Company and the Texas A&M University System for *Helenium amarum* selections (TAMUS 1699) – Dr. Michael Arnold.
- \$2,296 2009 Support of the CEMAP program IP136-Texas Superstar (\$13,777 from tag sales). C. McKenney, T.D. Davis, M.A. Arnold, R.D. Lineberger, L.A. Stein, and B. Pemberton (co-PIs). Portion attributable to M.A. Arnold \$2,296 (1/6<sup>th</sup> of total). 1 year.
- \$2,245 2009 License agreement between Ball Horticultural Company and the Texas A&M University System for *Helenium amarum* selections (TAMUS 1699) – Dr. Mike Arnold.
- \$2,296 2008 Support of the CEMAP program IP136-Texas Superstar (\$13,777 from tag sales). C. McKenney, T.D. Davis, M.A. Arnold, R.D. Lineberger, L.A. Stein, and B. Pemberton (co-PIs). Portion attributable to M.A. Arnold \$2,296 (1/6<sup>th</sup> of total). 1 year.
- \$2,995 2008 License agreement between Ball Horticultural Company and the Texas A&M University System for *Helenium amarum* selections (TAMUS 1699) – Dr. Mike Arnold.
- \$487 2007 Support of the CEMAP program (\$4,379.21 from tag sales). Mackay, W.A., C. McKenney, T.D. Davis, M.A. Arnold, R.D. Lineberger, J.M. Parsons, L.A. Stein, B. Pemberton, and G.G. Grant (co-PIs). Portion attributable to M.A. Arnold \$438 (1/9<sup>th</sup> of total). 1 year.
- \$5,536 2007 License agreement between Ball Horticultural Company and the Texas A&M University System for *Helenium amarum* selections (TAMUS 1699) – Dr. Mike Arnold.
- \$5,536 \*2006 License agreement between Ball Horticultural Company and the Texas A&M University System for *Helenium amarum* selections (TAMUS 1699). University cut from \$138,403 in sales.
- \$487 \*2006 Support of the CEMAP program (\$4,867 from tag sales). Mackay, W.A., C. McKenney, S.W. George, T.D. Davis, M.A. Arnold, R.D. Lineberger, J.M. Parsons, L.A. Stein, B. Pemberton, and G.G. Grant (co-PIs). Portion attributable to M.A. Arnold \$487 (10% of total). 1 year.
- \$1,468 \*2005 License agreement between Ball Horticultural Company and the Texas A&M University System for *Helenium amarum* selections (TAMUS 1699) – portion of revenues generated for M.A. Arnold.
- \$668 \*2005 Support of the CEMAP program (\$6,313 from tag sales). Mackay, W.A., C. McKenney, S.W. George, T.D. Davis, M.A. Arnold, R.D. Lineberger, J.M. Parsons, L.A. Stein, B. Pemberton, and G.G. Grant (co-PIs). Portion attributable to M.A. Arnold \$631 (10% of total). 1 year.
- \$187 \*2004 Support of the CEMAP program (\$6,313 from tag sales). Mackay, W.A., C. McKenney, S.W. George, T.D. Davis, M.A. Arnold, R.D. Lineberger, J.M. Parsons, L.A. Stein, B. Pemberton, and G.G. Grant (co-PIs). Portion attributable to M.A. Arnold \$631 (10% of total). 1

- year.
- \$631 \*2003 Support of the CEMAP program (\$6,313 from tag sales). Mackay, W.A., C. McKenney, S.W. George, T.D. Davis, M.A. Arnold, R.D. Lineberger, J.M. Parsons, L.A. Stein, B. Pemberton, and G.G. Grant (co-PIs). Portion attributable to M.A. Arnold \$631 (10% of total). 1 year.
- \$1,143 \*2002 Support of the CEMAP program (\$11,434 from tag sales). Mackay, W.A., C. McKenney, S.W. George, T.D. Davis, M.A. Arnold, R.D. Lineberger, J.M. Parsons, L.A. Stein, B. Pemberton, and G.G. Grant (co-PIs). Portion attributable to M.A. Arnold \$1,143 (10% of total). 1 year.
- \$1,607 \*2001 Support of the CEMAP program (\$16,068 from tag sales). Mackay, W.A., C. McKenney, S.W. George, T.D. Davis, M.A. Arnold, R.D. Lineberger, J.M. Parsons, L.A. Stein, B. Pemberton, and G.G. Grant (co-PIs). Portion attributable to M.A. Arnold \$1,607 (10% of total). 1 year.

***In an administrative role:***

- \$64,000/yr \*Landscape Horticulture – Harmonizing Arts and Sciences to Enhance our Urban Environment / Urban Ecosystems Program. T. Davis, J. Zajicek, and M.A. Arnold (co-authors, equal contribution). COALS Proposals for TAMU Signature Program positions. Funded for one position in Urban Ecology approved for \$64,000 annual recurring dollars beginning in fiscal year 2007 and continuing as an increase in base funding for the Department.

**International program activities.**

- ◆ Served as a reviewer for a research proposal (Res. Prop. No. 12/03) in the Grand Water Research Institute with the Israel Institute of Technology, October, 2002.
- ◆ Hosted Dr. Amit Gross from Ben Gurion University, Israel, on a visit to work on our joint Texas Department of Agriculture - Israeli exchange grant research on water remediation in greenhouses and nurseries, March 7 - 8, 2002. Resulted in joint grants and several papers.
- ◆ Visited with Escobar Foundation representatives to participate in discussions regarding the development of TAMU relationships with Mexico, College Station, Texas 11/29/96. Resulted in a funded grant and publications.

## **Service/Outreach/Extension Activities:**

### **Interaction with Texas Agricultural Extension Service / Texas Cooperative Extension Agents and Specialists While at TAMU (1993 - present):**

*One of two non-extension personnel that are official members of the Texas A&M University Nursery/Floral Management Team (an interdisciplinary effort among the departments of Horticultural Sciences, Plant Pathology, Entomology, Agricultural Economics, and Agricultural Engineering.*

*Installation of run-off capture and recycling system as part of interdisciplinary initiative:*

Part of cooperative project in remediation of nursery effluent via constructed wetlands and bioreactor column technology with faculty, staff, graduate, and undergraduate students from horticulture, agricultural engineering, agricultural economics, plant pathology, and entomology programs. This project has resulted in several refereed, editor reviewed, and popular press publications.

Collaborated on publication of popular articles for the nursery industry with Drs. Don C. Wilkerson, Charles R. Hall, and Bruce J. Lesikar (see popular articles section).

Collaborated with Drs. William C. Welch, Douglas Welsh, and Frank Dainello (TCE/TAEX specialists) on a two extension bulletins (See TCE/TAEX publications in popular press section).

### ***Industry talks/educational events presented at the request of TCE/TAEX agents:***

1. *Co-presentation of the TEIL Awards* at the Texas Nursery and Landscape Association Awards Banquet, Dallas, TX, on August 18, 2011.
2. *“Garden operations advisory committee discussions, summer 2011”* presented at the Texas A&M University Dept. of Horticultural Sciences Retreat, College Station, Texas June 26, 2011.
3. *“Plant selection.”* at the Landscape Design Course II, Series XXII, held Feb. 22, 2011, at College Station, TX, in response to a request by Dr. William Welch.
4. *“Faculty Perspective - Expectations of New Graduate Students”* provided at the request of TAMU/Texas AgriLife Research faculty member Dr. David Byrne at the New Graduate Student Orientation Program on Aug. 23, 2010 at the TAMU Dept. Horticultural Sciences, College Station, Texas.
5. *“CEMAP and the Texas Superstar Program”* provided at the request of Texas AgriLife Extension personnel at the educational section of the Southeast Texas Nursery and Greenhouse Growers Association Trade Show, Jan. 29, 2010, in Conroe, Texas.
6. *“Low Input Landscape Plants”* provided to the TAMU Employee CEU Class, College Station, Texas on Nov. 12, 2009, at the request of Dr. Mary L. Ketchersid.
7. *“Presentation of Silver TEIL Awards”* at the Texas Nursery & Landscape Association awards banquet on August 13, 2009, at the request of TNLA.
8. *“What’s Blooming This Summer At The Gates Of Hell?”* provided to the Texas Nursery & Landscape Association Trade Show on August 14, 2009, at the request of Dr. Don Wilkerson.
9. *“Plant Selection”* provided to the 2009 National Garden Club Landscape School, College Station, TX on February 17, 2009, at the request of Dr. William Welch.
10. *“Tree Planting For The Future”* provided to the 29<sup>th</sup> Texas Tree Conference, Tree Academy, Awards, and Tree School, Trees For The Future, College Station, TX on September 25, 2008, at the request of Dr. Todd Watson.
11. *“Plant Nomenclature and Taxonomy”* recorded for the Master Certified Nursery Professional web training series, College Station, TX on June, 2008, at the request of Dr. Don Wilkerson (editing completed fall 2008).

12. "*New Plants For Texas Landscapes*" provided to the 15<sup>th</sup> Annual Southeast Texas Landscape Show, Conroe, Texas, on January 25, 2008, at the request of Dr. Carlos Bogran.
13. "*Recent Landscape and Nursery Research at the Texas A&M University Horticultural Gardens*" provided to the Southeast Texas Greenhouse and Nursery Growers Association on March 26, 2008, at the request of Dr. Charles Hall.
14. "*Tree Planting For The Future*" provided to the 29<sup>th</sup> Texas Tree Conference, Tree Academy, Awards, and Tree School, Trees For The Future, College Station, TX on September 25, 2008, at the request of Dr. Todd Watson.
15. Presented a talk entitled "*Horticulture Industry Advisory Committee: Graduate Program Update*" at the Horticulture Industry Advisory Committee Meeting in College Station on October 26, 2006, at the request of Dr. Tim Davis.
16. Presented a talk entitled "Primary concerns for stacked courses" at the TAMU Dept. of Horticultural Sciences Undergraduate Retreat on August 21, 2007.
17. Presented a talk entitled "*Baldcypress Provenances*" at the 2005 Annual Turf and Ornamentals Field Day in Dallas, TX, on September 14, 2005, at the request of Dr. Steve George & Dr. Cynthia McKinney.
18. Presented a talk entitled "*Landscape Design Course II: Plant Selection*" at the Landscape Design Study Course II, Series XX, sponsored by the Texas Garden Clubs Inc. and Texas Cooperative Extension on February 21, 2006, at the request of Dr. William Welch.
19. Presented a talk entitled "*Tropicals in the Summer Landscape*" at a meeting of the Harris County Master Gardeners in the Harris County Extension Facility on July 18, 2006, at the request of the county horticulture agent.
20. Presented a talk entitled "*Provenance Evaluations of Taxodium*" at the 2004 Annual Turf and Ornamentals Field Day in College Station, TX, on September 15, 2004, at the request of Dr. Don Wilkerson.
21. Served as Co-Master-of-Ceremonies for the Texas Nursery and Landscape Association Excellence in Landscaping Awards in Austin, TX on January 14, 2005, at the request of TNLA.
22. Presented a talk entitled "Outstanding Flowering Woody Plants For South Texas" at the 2005 Advanced Horticultural Studies Short Course on Flowering Woody Plants in Dallas, TX, on February 15, 2005, at the request of Dr. Cynthia McKenney.
23. Presented a talk entitled "Crape Myrtle Care and Maintenance" at the 2005 Annual Meeting of the Crape Myrtle Society of America sponsored by The Crape Myrtle Trails of McKinney, McKinney, TX, on June 25, 2005, at the request of Dr. Steve George.
24. Presented a talk entitled "Tropicals as Summer Annuals" at the 2005 Texas Nursery & Landscape Association Trade Show in the Educational Section at Dallas, TX, on August 18, 2005, at the request of TNLA.
25. Presented a talk entitled "Landscape Plants For Texas & Environs, Sec. Ed." the author's round table portion of the Educational Section of the 2005 Texas Nursery & Landscape Association Trade Show in Dallas, TX, on August 19, 2005, at the request of TNLA.
26. Taped a radio spot on "Using Tropicals as Summer Annuals" for the Livable Garden radio show on KSEV, Houston, TX, on August 19, 2005, at the request of TNLA & KSEV.
27. Presented a talk entitled "*Tropicals in the Summer Landscape*" to the Women's College Station Garden Club in College Station, TX, on April 12, 2004, at the request of colleague in the TAMU Dept. of Landscape Architecture and Urban Planning.
28. Presented a talk entitled "*Plant selection*" at the Landscape Design Course II in College Station, TX, on February 24, 2004, at the request of Dr. William Welch.
29. Presented a talk entitled "*Plant materials for urban soils*", at the Advanced Horticultural Studies Short Course on Demanding Landscape Environments held in Dallas, TX, on January 27, 2004.
30. Presented a talk entitled "*Recycled nursery runoff using constructed wetlands technology*" in the Citrus/Horticulture Crops Division Meeting of the 2004 Texas Farm Bureau Leadership Conference held in College Station, TX, on January 26, 2004.
31. Presented a tour of the Texas A&M University Horticulture Gardens and research nursery to the



- Citrus/Horticulture Crops Division Meeting of the 2004 Texas Farm Bureau Leadership Conference held in College Station, TX, on January 26, 2004.
32. Presented a talk entitled "*Using tropical plants as annuals*" at the Texas Nursery and Landscape Association Region II Monthly meeting held in Houston, TX, on November 12, 2003.
  33. Presented a talk entitled "*Overview of graduate and research programs*" to representatives of the Texas Nursery and Landscape Association in College Station, TX, on November 11, 2003.
  34. Presented an invited talk entitled "*Planting is More Than Green Side Up*" at the TAMU Dept. of Forest Science / International Society for Arboriculture's Root Workshop on August 20, 2003, at College Station, Texas at the request of the Department of Forestry.
  35. Presented an invited talk entitled "*Beating the Heat with Tropicals*" at the Stephen F. Austin Mast Arboretum Les Reeves Lecture Series on May 15, 2003, at the request of Dr. David Creech, Director of the SFA Mast Arboretum.
  36. Presented an invited talk entitled "*Trees for Southern Texas*" at the Advanced Horticultural Studies on Urban Trees Short Course on January 20, 2003, at the request of TAEX agents Dr. Steve George and Dr. Cynthia McKenney.
  37. Presented a talk entitled "*Updating the Tropical Forecast*" at the 2003 Annual Turf and Ornamentals Field Day in Dallas, TX, on September 17, 2003, at the request of Dr. Steve George and Dr. Cynthia McKenney.
  38. Twice presented a talk entitled "*New Plant Introductions From the TAMU Horticulture Garden*" at the Turf And Ornamentals Field Day, College Station, Texas, on September 18, 2002.
  39. Presented a talk entitled "*Perennial Production: Answering the Unknown*" at the Advanced Horticulture Studies Short Course on Perennial Color Plants at the Texas A&M University Research and Extension Center in Dallas, Texas, on July 23, 2002.
  40. Presented a talk entitled "*History and Development of the Texas A&M University Horticulture Gardens and Nursery / Floral Field Laboratory*" at the Texas Agricultural Experiment Station Contract and Grants Personnel at the TAMU Horticulture Gardens in College Station, Texas, on May 13, 2002.
  41. Presented a talk entitled "*Raised Bed Construction*" to the TAMU Horticulture interns from the Bryan Women's Correctional Facility at the Texas A&M University Horticulture Gardens in College Station, Texas, on April 5, 2002.
  42. Presented a talk entitled "*Transplanting Is More Than Green Side Up*" at the International Society of Arboriculture Workshop held at the Texas A&M University, College Station, Texas, on December 19, 2001.
  43. Presented a talk entitled "*The Texas Biome and Its Habitats: Region3. The Post Oak Savannah.*" 2001 Native Plant Soc. of Texas Symposium, Dawn of the 21<sup>st</sup> Century: The Texas Biomes and All Their Habitats, held in Austin, Texas, on Oct. 4-7, 2001.
  44. Twice presented a talk entitled "*Planting Depth and Mulching Depth: Do They Matter?*" at the Turf and Ornamentals Field Day, Dallas, TX, Sept. 19, 2001.
  45. Presented a talk entitled "*Lacey Oak*" at the 2001 CEMAP Coordination Conference organized by Dr. Steve George, at the Texas A&M University Research and Extension Center at Dallas, held on Sept. 18, 2001.
  46. Twice presented a talk entitled "*Annuals That Beat The Heat*" to the Advanced Horticultural Studies: Annuals Workshop organized by Dr. Steve George at the Texas A&M University Research and Extension Center at Dallas, TX, Jan. 30, 2001.
  47. Presented a talk entitled "*Research Update on Container Nursery Production*" at the Turf and Ornamentals Field Day, College Station, TX, Sept. 20, 2000.
  48. Presented a talk entitled "*Innovations in Plant Growth and Development*" at the Turf and Ornamentals Field Day, College Station, TX, Sept. 20, 2000.
  49. Hosted tours for a local Cub Scout group at the Texas A&M University Horticultural Garden on Sept. 18, 2000.
  50. Co-hosted a "*Breakfast in the Garden*" at the Texas A&M University Horticultural Gardens in conjunction with the Horticulture Gathering 2000 program on Sept. 17, 2000.

51. Hosted tours at the Texas A&M University Horticultural Gardens in conjunction with the Horticulture Gathering 2000 program on Sept. 16, 2000.
52. Presented a talk entitled "*Pruning Landscape Plants*" at the TNLA/TAEX Master Texas Certified Nursery Professional Program, College Station, TX, July 12, 2000.
53. Presented a talk entitled "*Plant Growth In Urban Landscapes*" at the TNLA/TAEX Master Texas Certified Nursery Professional Program, College Station, TX, July 12, 2000.
54. Presented a talk entitled "*An education and research update from the TAMU Horticultural Gardens*" at the June meeting of the Southeast Texas Nursery Growers Association, Houston, TX, June 22, 2000.
55. Presented a talk entitled "*Plant selections from the horticultural gardens and field laboratory*" at the Turf and Ornamentals Field Day, Dallas, TX, Sept. 15, 1999.
56. Presented an invited talk on Jan. 29, 1999, entitled "*Perennial Production: Answering The Unknown*" at the 1999 workshop titled Advanced Horticultural Studies on Herbaceous Perennials, Jan. 25-30, 1999, in Dallas, TX, organized by Dr. Steven George.
57. Served as a co-host for the tour of The Torro Company representatives of research, education, and extension projects at the Texas A&M University Nursery / Floral Research and Education Center, College Station, TX, Dec. 17, 1998.
58. Presented a talk entitled "*Tree Establishment and Surface Covers*" at the Turf and Ornamentals Field Day, College Station, TX, Sept. 16, 1998.
59. Presented a talk entitled "*Container Nursery Projects*" at the Turf and Ornamentals Field Day, College Station, TX, Sept. 16, 1998.
60. Presented an invited talk entitled "*Urban Development and Plant Growth*" at the 1998 Master Texas Nurseryman's Training Sessions held at College Station, TX, July 8, 1998.
61. Presented an invited talk entitled "Plant Material for '98" at the Professional Grounds Maintenance Conference at the Bell County Expo Center, Belton, TX, Feb. 17, 1998.
62. Presented an invited talk entitled "*Impacts of site development on institutional plantings*", Eleventh Annual Conference of the University Grounds Managers Association, San Antonio, TX, Jan. 22, 1998.
63. Presented talk entitled "*What's New at the TAMU Nursery*" at the Texas and Southwest Greenhouse Grower's Conference, College Station, TX, Nov. 13, 1997.
64. Presented invited talk entitled "*The Latest Plant News From The Texas A&M University Nursery/Floral Crops Research and Education Center*" at the distinguished lecturer series at the 1997 TAN/MISLARK Trade Show in Dallas, Texas, August 16, 1997.
65. Presented talk entitled "*Urban Development and Plant Growth*" at the Nursery / Floral Research and Education Facility as a portion of the Master Texas Nurseryman Certification Program, College Station, Texas, July 17, 1997.
66. Co-hosted with Dr. Welch and Dr. Wilkerson talks and tours at the Nursery / Floral Research and Education Facility as a portion of the Master Texas Nurseryman Certification Program, July 17, 1997.
67. Co-hosted with Dr. Wilkerson and Mr. Goyne tours and talks about the Nursery / Floral Research and Education Facility grounds as a portion of the Master Gardener Advanced Training Seminar, entitled *Enhancing Life Quality and Health Through Gardening*, held on May 16, 1997.
68. Presented talk entitled "*Texas landscape plants*" at the Spring Plant Fair, Texas A&M University Floriculture-Horticulture Society, College Station, Texas, March 22, 1997.
69. Presented talk entitled "*Landscape plants adapted to Texas environmental conditions*" at the Professional Grounds Maintenance Conference, Belton, Texas, Feb. 18, 1997.
70. Presented talk entitled "*TAMU Plant Trials and Trends*" at the Texas and Southwest Greenhouse Grower's Conference, Nov. 7, 1996.
71. Presented an invited talk entitled "*Alternative Media & Small Trees For Texas*" at the 1996 TAN/MISLARK Nursery, Garden, and Landscape Supply Show Educational Opportunities, Houston, TX, August 17, 1996.
72. Presented an invited talk entitled "*Interpreting Landscape Plans*" at the TAN/TAEX Master Texas Certified Nursery Professional Program, July 22-27, 1996.
73. Presented an invited talk entitled "*Impact of Grade Changes on the Landscape*" at the TAN/TAEX

- Master Texas Certified Nursery Professional Program, July 22-27, 1996.
74. Presented an invited talk entitled "*Avoiding Transplant Losses*" at the TAN/TAEX Master Texas Certified Nursery Professional Program, July 22-27, 1996.
  75. Presented an invited talk entitled "*Kenaf and Coconut Coir as Components in Plant Growth Media*" at the CEMAP Plant Materials Conference, April 16, 1996.
  76. Presented an invited talk entitled "*Ornamental Grasses and Groundcovers for Texas*" at the Professional Grounds Conference in Round Rock, Texas, February 13, 1996.
  77. Presented an invited talk entitled "*Use of Trees in Landscaping*" at the Texas Recreation and Park Society Region 3 Workshop, Georgetown, TX, Nov. 1, 1995.
  78. Presented an invited talk entitled "*Bark Media, Slow-Release Fertilizers, Plastic Pots...Are Copper-Treated Containers the Next Revolution in Nursery Production?*" at the Iowa State University Container Production of Nursery Crops Conference, Ames, Iowa, Nov. 28, 1995.
  79. Presented an invited talk entitled "*Containing the Future*" - *What's New in Container Nursery Research at TAMU?*" at the Iowa State University Container Production of Nursery Crops Conference, Ames, Iowa, Nov. 28, 1995.
  80. Presented a talk on "*Container Production and Transplant Establishment at TAMU*", 8/19/95, at the TAN/MISLARK Trade Show, Dallas, TX, at the request of Dr. Don Wilkerson.
  81. Presented a talk at The 2nd Annual Home Landscaping School in Dallas, TX, on 5/30/95, on "*Hardscapes*" at the request of TAEX agent Nowell Adams.
  82. Presented a talk on "*Urban Development and Plant Growth*" at the TAN/TAEX Master Texas Certified Nursery Professional Program, 7/27/95, College Station, TX.
  83. Presented a talk on "*Pruning Practices*" at the Home Products and Garden Show, 2/25/95, Bryan, TX, at Dr. William Welch's request.
  84. Lead industry discussion group on "*Attracting Horticulture Students to Your Company*" at breakfast of champions at The Texas Green Industry Annual Conference and Exposition, 10/15/94, Arlington, TX.
  85. Presented talk on "*Interpreting Landscape Plans*" at the TAN/TAEX Master Texas Certified Nursery Professional Program 7/28/94.
  86. Presented talk on "*Pruning Landscape Plants*" at the TAN/TAEX Master Texas Certified Nursery Professional Program 7/28/94.
  87. Served on a three hour round table discussion in the "*Executive Forum*" at The Texas Green Industry Annual Conference and Exposition, 10/14/95, Arlington, TX.
  88. Presented A talk at the 1993 Texas and Southwest Greenhouse Growers' Conference at Dr. Don Wilkerson's request entitled "*Update: Spin Out*".

***Served as a judge at the following education/extension events at the request of TAEX agents:***

- ◆ 2000 4-H Roundup, Contest #35 Horticulture Landscape or Production Contest, Thursday, June 15, 2000, College Station, TX.
- ◆ 1998 4-H Landscape or Production Horticulture Contest, 1998 Texas State 4-H Roundup, College Station, Texas, June 4, 1998.
- ◆ 1997 State 4H Competition, Landscape and Horticulture Production, June 5, 1997.
- ◆ 1996 4-H Landscape and Production Horticulture Contest, 6/6/96, at request of Dr. George R. McEachern and Dr. William C. Welch.
- ◆ 4-H 1995 Horticulture Production and Landscape Demonstration, 6/8/95, College Station, TX, at the request of Dr. George R. McEachern and Dr. William Welch.
- ◆ 1994 Texas Garden Clubs, Inc., Landscape Design Awards at Dr. William Welch's request.
- ◆ Landscape & Production Horticulture Contest at the 1994 4-H Roundup held on 6/9/94 in College Station, TX, at the request of Dr. George R. McEachern.
- ◆ 1993 Texas Garden Clubs, Inc., Landscape Design Awards at Dr. William Welch's request.

***Provided the following electronic files to TCE/TAEX specialist Dr. R. Daniel Lineberger for use on the Aggie-Horticulture Web Pages on the internet;***

- ◆ Monthly electronic copies of the Texas A&M Horticulture Job Opportunities newsletter.
- ◆ Updated course syllabi each semester that HORT 207, HORT 308, HORT 425, HORT 484, and HORT 608 were taught.
- ◆ Various support materials such as PowerPoint slide presentations of HORT 425 Landscape Construction and Maintenance and HORT 308 Landscape Plant Materials lectures, handouts, images, grades, etc. for inclusion on the teaching and outreach portions of the aggie-horticulture webpages.
- ◆ Updated graduate program information, such as the policy manuals.
- ◆ Assisted Dr. Daniel Lineberger in the development and maintenance of Aggie-Horticulture Picture Pages, an interactive ornamental plant data base, providing plant cultural and aesthetic information to the gardening public.
- ◆ Assisted Dr. Daniel Lineberger in the development of a plant materials training CD for use by the Northeast Regional Texas Dept. of Agriculture Plant Inspector (Sherman Clem) in training fellow nursery inspectors, August 1999.

***Miscellaneous Service Activities while at TAMU:***

- ◆ Served on the *1996 Nursery Floral Crops Field Day Organizing Committee* with Drs. D.C. Wilkerson, H.J. Lang, and R.D. Lineberger, field day held on May 25, 1996. This event was then merged with the Annual Turf Field and analogous field days at the TAMU Dallas Center. This is now a joint venture between TCE, TAMU, and TAES faculty in the Department of Soil and Crop Science and Department of Horticultural Sciences and is promoted as the TAMU Turf and Ornamentals Field Day. It alternates years between the main campus in College Station and the Dallas Research and Extension Center, drawing 300 to 400 attendees each year. It has been now held annually as a joint venture from 1998 – 2005.
- ◆ Organized the 1996 Ornamentals Working Group Meeting on 1/10/96 during the 1996 Texas A&M University System Agriculture Program Conference, Jan. 9-11, College Station, TX.
- ◆ Hosted an afternoon and evening of the TAN/TAEX Master Texas Certified Nursery Professional Program at the Nursery/Floral Crops Research and Education Facility, July 25, 1996.
- ◆ Served as a member of the Executive Committee of the Coordinated Education and Marketing Assistance Program (CEMAP), 1999 – present; as chair from 2003 - 2009.
- ◆ Provided plant images (slides) to Keith Zamzow for use as curriculum materials (11/24/99) for the State FFA Horticulture Career Development Event.
- ◆ The Texas A&M University Gardens received a Brazos Beautiful Award (local landscape award) on April 24, 2000, for the landscapes at the Nursery / Floral Field Laboratory developed in cooperation with Dr. Don C. Wilkerson (TAEX) and our department's students in landscape courses.
- ◆ Served as an advisor at the request of Dr. Steven George (TAEX, Dallas) to the non-profit foundation Crapemyrtle Trails of McKinney (Texas), 1998 - 2000.
- ◆ Served as the site coordinator and as an All-America Selections trial judge for conducting the 2000 All-America trials at the TAMU Horticulture Gardens.

## **Service/Extension Activities While at TTU (1990 - 1992):**

*Provided on-going consultation services to the Middle Tennessee nursery industry, landscape industry, and home gardeners via the TTU Nursery Research and Service Center from Oct. 1990 through Dec. 1992.*

- ◆ Included visits to nursery/landscape firms to assist with problems on a regular basis (1 to 2 days/week during peak seasons).
- ◆ Handling of nursery and landscape industry calls (2 to 6 per week average).
- ◆ Handling of homeowner calls relating to landscape issues (several per week).

*Served in various capacities on the following nursery/landscape industry committees:*

- ◆ Tennessee Nurserymen's Association Education Committee, 1991 - 1992.
- ◆ Tennessee Nurserymen's Association Tennessee Certified Nursery Professional Committee, 1991 - 1992.
  - Supervised the design, administration, and analysis of the Tennessee Certified Nursery Professional examinations.
  - Assisted in coordinating the ongoing review and revision of the TCNP Manual.
- ◆ Middle Tennessee Nurserymen's Association Scholarship Committee (Chair person), 1992.
  - Wrote the MTNA Scholarship Application Form, p. 5.

*Participated in monthly Middle Tennessee Nurserymen's Association Meetings.*

- Provided short 5 to 10 minute talks on pertinent issues/topics at each monthly meeting.

*Formal talks at nursery meetings and short courses.*

- ◆ "Woody Plant Identification", 24th Annual Tennessee Nursery Short Course, Feb. 1991, Gatlinburg, Tennessee.
- ◆ "Engineering Plants for Growth in Containers", First Annual Middle Tennessee Nurserymen's Association Trade Show and Educational Seminar, Sept. 1991.
- ◆ "Plant Identification", 25th Annual Tennessee Nursery Short Course, Feb. 1992.
- ◆ "The Latest in Container Systems", Middle Tennessee Nursery Association 1992 Field Day, June, 1992.
- ◆ "So You Are Thinking About a Few Containers", Second Annual Middle Tennessee Nursery Association Trade Show, Oct. 1992.
- ◆ "Ornamental Trees and Shrubs", Tech Garden group, Spring 1992.

Served as an informal consultant to the Tennessee Department of Agriculture Marketing Division concerning appropriate landscape plants for the Middle Tennessee region.

*Served as a judge at the following educational events:*

- ◆ 1992 Tennessee State FFA Proficiency Award in Forest Management.
- ◆ 1992 Cookeville Junior High Science Fair.
- ◆ 1991 Regional 4-H and FFA State Land Judging Contest.
- ◆ 1991 Tennessee State FFA Proficiency Award in Forest Management.
- ◆ 1991 TTU Regional Science Fair.
- ◆ 1990 North Carolina 4-H Congress.

## **Administrative Responsibilities:**

### ***Served as Texas A&M University Department of Horticultural Sciences Associate Head for Research and Graduate Program Coordinator, 2003- present.***

Percentage budgeted time (0% to 5 % on paper, in actual time as high as 50% during some times of the year).

#### **Type of administrative duties.**

##### ***Primary duties of the Associate Head for Research and Graduate Studies entails:***

- ◆ Serving as an advisor to the Head on the TAES budgets
- ◆ Administering the GAT/GANT budgets, tuition waiver, and graduate enhancement funds.
- ◆ Serving as the chair of the Departmental Graduate Program Committee.
- ◆ Serving as graduate coordinator for the department.
- ◆ Serving as the departmental representative to the COALS Graduate Program Committee, and preparing reports to COALS, TAES, the graduate school and various outside entities as needed with regard to the Departmental graduate and research programs.
- ◆ Additional duties include substituting for the head at various functions when he is unavailable, assisting with drafting proposals, plans, and other documents, and assisting with day-to-day personnel and facility management decisions in the head's absence.
- ◆ Assist the Associate Heads for Undergraduate Instruction and Extension with relevant undergraduate teaching and outreach activities.
- ◆ With assistance from the department's webmaster, develop and maintain the TAMU Dept. of Horticultural Sciences Website.
  - Website address: <http://aggie-horticulture.tamu.edu/gradinfo/index.html>.

##### ***Other Administrative Activities:***

- ◆ Prepared and presented the Research and Graduate Program portions of the 2006 Horticultural Sciences Doctoral Program Review by administrators from the Texas A&M University College of Agriculture and Life Sciences, Texas Agricultural Experiment Station, and Cooperative Extension Service.
- ◆ Presented a Departmental seminar entitled "North American Horticulture Graduate Programs: How Do We Compare and Can We Remain Competitive?" at the Texas A&M University Department of Horticultural Sciences Seminar Series, College Station, TX, on April 20, 2006.
- ◆ Conducted a follow-up graduate program retreat to address issues raised in the Department's 2005 Horticultural Sciences Doctoral Program Review.
- ◆ Dr. Tim Davis and Dr. Michael Arnold served as co-coordinators of the 2005 Horticultural Sciences Doctoral Program Review. This entailed oversight of all preparatory work for the Department, coordinating the contributions from individual faculty members, writing the Department's portion of Self Study Manual, and serving as editors for the faculty contributions to the Self Study Manual.
  - Davis, T. and M.A. Arnold (eds.). 2005. *Horticultural Sciences Doctoral Program Review Self-Study*. Texas A&M University, Dept. of Horticultural Sciences, College Station, TX. p. 379.
- ◆ Participated in the Annual Retreat for Department and Associate Department Heads in College Station, TX, on December 12, 2003, including the topics "Recruitment and retention for diversity", "Creating a positive departmental climate", "Mentoring, quality of life and community building", and "Developing faculty into productive scholars, teachers, and citizens".
- ◆ Served on the Texas A&M University – Kingsville College of Agriculture and Human Sciences new horticulture and agronomic positions search committees, January 2004.
- ◆ Served as chair of the Texas A&M University Department of Horticultural Sciences search committee for a new position in landscape horticulture ecology, October 2003 – 2006.

- ◆ Served at the request of Dr. Tim Davis and Dr. Mark Hussey as the representative of the TAMU Dept. of Horticultural Sciences at the TAMU Dept. Soil and Crop Sciences turfgrass working group retreat, Canyon of the Eagles Lodge, Burnett, TX. March 25-26, 2004.
- ◆ Arnold, M.A. and S. Duray (eds., originally authored by D. Wm. Reed). 2003. Graduate Policy Manual. Texas A&M University, Dept. Horticultural Sciences, College Station, TX. p. 20.
- ◆ Served as the COALS representative department for the university's preliminary National Research Council Ph.D. Program Survey, Fall 2003 to Spring 2004.
- ◆ Served as coordinator of the department's portion of the National Research Council Ph.D. Program Survey, 2006-2007.
- ◆ Participated in the 2006 Texas A&M Agriculture Conference: Positioning for Success. College Station, TX, Jan. 9-13, 2006.
- ◆ Participated in the TAES Big Picture Thinking Session, a part of the Strategic Positioning Initiative, COALS, Texas A&M University, TAES, conducted in College Station, TX, on June 21, 2006.
- ◆ Served as an invited speaker at the Texas A&M University Graduate Teaching Academy on the topic of "Teaching in Different Institutional Cultures" on Oct. 2, 2006, in College Station, TX.

### University Committee Assignments:

#### *Service on University & Professional Committees*

<b>Type of Committee</b>	<b>Total</b>	<b>Chair/ co-chair</b>	<b>Committee member</b>
<b>TAMU University Wide Committees</b>	<b>2</b>	<b>0</b>	<b>2</b>
<b>TAMU College of Agriculture &amp; Life Sciences (COALS)</b>	<b>9</b>	<b>0</b>	<b>9</b>
<b>TAMU Dept. Horticultural Sciences</b>	<b>37</b>	<b>10</b>	<b>27</b>
<b>Texas AgriLife Research &amp; Extension (formerly TAES/TAEX/TCE)</b>	<b>6</b>	<b>1</b>	<b>5</b>
<b>Tenn. Tech. Univ. School of Agriculture</b>	<b>5</b>	<b>0</b>	<b>5</b>
<b>Professional organizations</b>	<b>41</b>	<b>14</b>	<b>27</b>
<hr style="border-top: 1px dashed black;"/>			
<b>Total Committee Assignments</b>	<b>100</b>	<b>25</b>	<b>75</b>

### Committee Assignments At Texas A&M University (1993 - present):

#### *TAMU University Wide Level Committees:*

1. Texas A&M University Tree Advisory Committee, 2010 – present.
2. Texas A&M University Evaluation Committee for the Association of Former Students Distinguished Achievement Awards for 2010.

***TAMU College of Agriculture and Life Sciences Committees:***

1. TAMU College of Agriculture and Life Sciences Tom Slick Fellowship Evaluation Committee, member 2005-present.
2. TAMU College of Agriculture and Life Sciences Tenure and Promotion Committee, 2009-2011.
3. TAMU College of Agriculture and Life Sciences Association of Former Students Teaching Award (College-level), 2008.
4. TAMU College of Agriculture and Life Sciences Graduate Program Council, 2003 – 2007.
5. TAMU College of Agriculture and Life Sciences Water and Ecological Sustainability Signature Program Team, 2003 – 2007.
6. TAMU College of Agriculture and Life Sciences Competency Committee, 2002-2003.
7. TAMU College of Agriculture and Life Sciences Turf and Ornamental Working Group, 2002 – present.
8. TAMU College of Agriculture and Life Sciences Turf and Ornamental Working Group ad hoc organizing committee 2002-2003.
9. TAMU College of Agriculture and Life Sciences Academic Program Review Committee, 2000-2001.

***TAMU Departmental Committees:***

1. TAMU Department of Horticultural Sciences Tenure and Promotion Committee, 2005 – present, chair from 2009 to present.
2. TAMU Department of Horticultural Sciences Graduate Program Committee, 2001 – 2011; chair from 2003 – 2007.
3. TAMU Department of Horticultural Sciences Outcome Assessment Committee, 2008 – present.
4. TAMU Department of Horticultural Sciences Farm Operations Advisory Committee, 2011 – present
5. TAMU Department of Horticultural Sciences Garden Operations Advisory Committee, 2011 – present, chair 2011 – present.
6. TAMU Department of Horticultural Sciences Greenhouse Operations Advisory Committee, 2011 – present
7. TAMU Department of Horticultural Sciences Undergraduate Curriculum Committee, member 2011.
8. TAMU Department of Horticultural Sciences Garden Steering Committee, member 2010 – 2011.
9. TAMU Department of Horticultural Sciences Mentoring Committee for Dr. Joseph Masabni on the College Station Campus, 2009 – present.
10. TAMU Department of Horticultural Sciences Mentoring Committee for Dr. Xin Wang Wang at the Dallas Research Station, 2009 – present.
11. TAMU Department of Horticultural Sciences Mentoring Committee for Dr. Astrid Volder on the College Station Campus, 2006 – present.
12. TAMU Department of Horticultural Sciences Plant Diagnostics at a Distance, member 2000 - present.
13. TAMU Department of Horticultural Sciences Outcome Assessment Committee, 2008 – present.
14. TAMU Department of Horticultural Sciences Budget Committee, 2009-2011.
15. TAMU Department of Horticultural Sciences Ad Hoc Outcome Assessment Plan Committee, 2007-2008.
16. TAMU Department of Horticultural Sciences Floriculture Curriculum Committee, 2005 – 2006.
17. TAMU Department of Horticultural Sciences Recruitment and Planning Committee for an Urban Ecology Position, chair 2003 – 2004.
18. TAMU Department of Horticultural Sciences Search Committee for an Urban Ecology Position, Chair 2003 - 2006.
19. TAMU Department of Horticultural Sciences Landscape Lecturer Position Search Committee, 2005.
20. TAMU Department of Horticultural Sciences Director of the Vegetable and Fruit Improvement Center Search Committee, 2004.
21. TAMU Department of Horticultural Sciences Research Budget Reduction Committee, Chair, 2003.



22. TAMU Department of Horticultural Sciences Jobs Coordinator, 1993 - 2003.
23. TAMU Department of Horticultural Sciences Internship/Coop Coordinator, 1993 - 2003.
24. TAMU Department of Horticultural Sciences Ad Hoc Departmental Academic Appeals Panel, 2002.
25. TAMU Department of Horticultural Sciences Undergraduate Program Review Committee, 2001 - 2002.
26. TAMU Department of Horticultural Sciences Building and Landscape Committee, 1996 - 2000.
27. TAMU Department of Horticultural Sciences Search Committee for the Simpson Position at Dallas, member 1998.
28. TAMU Department of Horticultural Sciences Computer Equipment Access Committee, 1995-1996.
29. TAMU Department of Horticultural Sciences Facilities Committee- Floriculture Field Lab, Co-chair, 1994 - 1997.
30. TAMU Department of Horticultural Sciences Nursery/Floral Crops Field Day Planning Committee, 1996.
31. TAMU Department of Horticultural Sciences Seminar Committee, 1993-1994.
32. TAMU Department of Horticultural Sciences Ad HOC Undergraduate Instruction Committee, member 1997-1998.
33. TAMU Coordinated Education and Marketing Assistance Program (CEMAP) Advisory Board, Shrubs, Vines, and Groundcovers Working Group, Chair 1997-2001.
34. TAMU Department of Forestry's Urban Forestry Advisory Committee, 2003 – 2006.
35. Participated in the Society of American Foresters Accreditation Team visit at the request of the TAMU Department of Forest Science, March 19, 2003.
36. TAMU Department of Soil and Crop Sciences Turfgrass Ecology Position Search Committee, 2004-2005.
37. TAMU Department of Soil and Crop Sciences Urban Nutrient and Water Management Position Search Committee, 2005-2006.

***Texas AgriLife Research (formerly Texas Agriculture Experiment Station) / Texas AgriLife Extension (formerly Texas Cooperative Extension) Committees:***

1. Texas AgriLife (TCE/TAES) Executive Committee of the Coordinated Education and Marketing Assistance Program (CEMAP), member 1999 – present; chair 2003 - 2009.
2. Texas AgriLife Research (TAES) Mentor Committee for a Dr. Genhua Niu faculty member at the El Paso Research Station, 2004 – present
3. Texas AgriLife Research Ornamentals Plant Development Position at Dallas Search Committee, 2008.
4. Texas AgriLife Research (TAES) Urban Research Advisory Committee, 2002 - present. Chaired the subcommittee to develop a proposal for the replicated model urban landscapes, 2003.
5. TAES/AgriLife Research Ornamentals Plant Development Position at Dallas Search Committee, 2008.
6. TAES Mentor Committee for Dr. Ken Marcum at the TAES El Paso Research Station, 2002 - 2003.

**At Tennessee Tech. University (1990 - 1992):**

1. TTU University Public Programs Committee, 1991 - 1992.
2. TTU College of Agriculture and Home Economics Faculty Policy Committee (Assistant Chairperson), 1991 - 1992.
3. TTU School of Agriculture Committee to Study Testing Out of Agriculture Courses, 1991.
4. TTU Nursery Research and Services Center Advisory Board (Secretary), 1990 - 1992.
5. TTU Nursery Research and Services Center Horticulturist Search Committee, 1990.

## Professional, scientific and honor society activities:

### Organizations and type of participation.

#### *American Society for Horticultural Science, Active Member, 1985 - Present.*

- ◆ Present research or teaching papers nearly every year at ASHS Annual Conferences/Meetings from 1985 to the present.
- ◆ Served on the American Society for Horticultural Sciences Board of Directors, 2011 – present.
- ◆ Inducted as a Fellow of the Society in 2010.
- ◆ Served as a periodic reviewer for the *Journal of the American Society for Horticultural Sciences*, *HortScience*, and *HortTechnology* manuscripts, 1990 - present.
- ◆ Served as a member of the HortTechnology Editorial Board, 2011 – present.
- ◆ Served as a member of the Fellows Selection Committee, 2011 -2013.
- ◆ Served as the landscape associate editor for *HortTechnology*, 2000 – 2002.
- ◆ Served as the ad hoc associate editor for six manuscripts from a workshop on Large Tree Transplant to be published in *HortTechnology* (scheduled summer 2004).
- ◆ Member of the Nominations and Elections Committee, Education Division Representative 2006 – 2009.
- ◆ Served on the Research Advisory Council (RAC) for ASHS, 2004-2006.
- ◆ Served as a member of the ASHS 2004 Annual Conference Local Arrangements Committee, 2003-2004.
- ◆ Served as chair elect of the Ornamentals/ Landscape/Turf Working Group, 2000-2001 and chair in 2002-2003. Coordinating a workshop on transplanting large trees for the 2003 conference and submitted a proposal to coordinate a half day colloquium on wildflower utilization in conjunction with the Lady Bird Johnson Wildflower Center for the 2004 conference.
- ◆ Served as a member of ASHS Collegiate Activities Committee, 1995 – 1998, chairman 1996-1997.
- ◆ Served on the Ornamental Publication Award Committee for 1994.
- ◆ Served on the 1993 Annual Meeting Nursery Tour Committee.
- ◆ Served on the 1993 Annual Meeting Registration Committee.

#### *Southern Region American Society for Horticultural Science, Active member from 1990 - present.*

- ◆ Presentation of papers at annual meetings.
- ◆ Served as president elect-elect (2008-2009), president elect (2009-2010), and president (2010-2011) of the Southern Region of the American Society for Horticultural Sciences.
- ◆ Served as a member of the SR-ASHS Executive Committee, member 2003 – 2011; chair 2009.
- ◆ Served as a member of the SR-ASHS Nominations Committee, 2011 – present.
- ◆ Served as a chair of the Masters oral paper competition section, 2010.
- ◆ Served as a chair of the Ph.D. oral paper competition section, 2010.
- ◆ Served as a chair of the Collegiate Branch Section, 2009.
- ◆ Served as a member of the L.M. Ware Distinguished Teacher Award Committee/J. Creighton Miller, Jr. Distinguished Educator Award Committee, 2004 – 2007, chair 2006-2007.
- ◆ Assist with conducting the undergraduate student horticulture judging competition each year 1995 - 2010.
- ◆ Served as a member of the nominations committee, 2002 - 2003.

#### *International Society of Arboriculture, Active member, 1994 - present.*

- ◆ Serve as a periodic reviewer for manuscripts submitted to the journal *Arboriculture and Urban Forestry*.
- ◆ Served on Arboriculture Research Trust Review Board, 1996 – 1999, reviewed over 250 grant proposals for funding in a three year period.
- ◆ Reviewed the ‘Planting’ Chapter of the revised *Principles and Practices of Planting Trees and Shrubs in the Landscape*.

- ◆ Reviewed the new transplant guidelines destined to become the American National Standards in that field.
- ◆ Served as a reviewer for the planting and establishment training CD ROMs.
- ◆ Served on the 1995 Membership Committee.
- ◆ Member of AREA, Arboriculture Research and Education Academy within ISA.

***Metropolitan Tree Improvement Alliance, Active member from 1996 – present.***

(International research group on urban trees)

- ◆ Contribute papers to the biennial proceedings.
- ◆ Served as Executive Director from 1996-1998.
- ◆ Served as Chair of the Biennial METRIA Meeting Committee, 1997-1998.

***Horticultural Research Institute***

- ◆ Served on the editorial board of the *Journal of Environmental Horticulture* from 2000- present.
- ◆ Serve as a regular contributor to their refereed *Journal of Environmental Horticulture*.

***Plant Growth Regulation Society of America, Active member, 1996 – Present.***

- ◆ Publish papers in the society's refereed journal, the *Plant Growth Regulation Society of America Quarterly*.
- ◆ Served as an occasional reviewer of manuscripts for the *PGRSA Quarterly*.
- ◆ **Only two time winner of research paper of the year, 1998 & 2001, for the *PGRSA Quarterly*.**

***Southern Nurserymen's Association, Associate member, 1990 - present.***

- ◆ Published papers frequently in their annual research conference proceedings (see research section).

***Texas Nursery & Landscape Association, Associate member, 1993 - present.***

- ◆ Served on the TNLA Best of Texas Task Force, 2011.
- ◆ Served on the TNLA TIEL Task Force, 2009.
- ◆ Served on the Texas Excellence in Landscaping Awards Evaluation Committee, 2004 – 2009.
- ◆ Served as an advisor to the TNLA Landscape Committee, 2004 – 2009.
- ◆ Served as an advisor to the TNLA Marketing Committee, 2005-2006.
- ◆ Presented talks at the Master Texas Certified Nursery Professional Programs, 1993 – 1995, 2004.
- ◆ Attended TAN/MISLARK trade show, 1993 – 2000 and 2002 - 2003.
- ◆ Participate as a speaker at the Distinguished Lecture series at the 1997-1999 annual TAN/MISLARK trade shows.

***Landscape Plant Development Center, TTU representative, 1991 – 1992, TAMU representative 1993-present (formerly Center for Development of Hardy Landscape Plants).***

- ◆ Served as a member of the Board of Directors, 2006-2008.
- ◆ Served on the Plant Introduction Committee and Research Committee, 2005-2008.
- ◆ Periodic contributions of articles for their newsletter.
- ◆ Cooperative evaluation of *Pyrus spp.* from their breeding program.
- ◆ Served as a reviewer for their research grant program, 2003-2004.

***SERA-IEG-27 - Nursery Crops and Landscape Systems, Active member.***

- ◆ Landscape Plant Evaluation Executive Committee, 1998-2001; Secretary 2000; chairman 2001.
- ◆ Hosted the 2001 annual meeting in College Station, TX.

***Texas Invasive Plant & Pest Council.***

- ◆ Texas Invasive Plant & Pest Council Board, member 2009 - present.

**Information Exchange Group – 63 (formerly SERA-IEG-27) – Nursery Crops and Landscape Systems  
Active member.**

- ◆ Participate in several plant evaluations projects, including leading a 10 site evaluation of clones of *Taxodium*.

**Southern Cooperative Research Project S103 (S290) (Economics of Ornamental Crops), Active member 1994 - 2003.**

**Other organizations in which active membership is held.**

- ◆ American Chestnut Foundation.
- ◆ Northern Nut Growers Association.
- ◆ Pi Alpha Xi (honor society for horticulture).
- ◆ Sigma Xi (Research Society).
- ◆ Gamma Sigma Delta (Agricultural honorary).
- ◆ Phi Kappa Phi (Honor society).
- ◆ Beta Gamma Sigma (Business honorary).

**Personal Data:**

I was born on February 9, 1959 in Zanesville, Ohio. I grew up on a farm in southeastern Ohio, graduating from the local Zanesville High School in 1977. I met my wife Amanda Faith Arnold, a native North Carolinian, during graduate school at North Carolina State University. We were married in May 1990 in North Carolina. After a two year stay in Tennessee, we moved to Texas in 1992. We enjoy gardening, plant photography, caring for our pets, and occasional travel as hobbies. I am an avid Olympic-Style Taekwondo enthusiast, currently ranked as a first degree black belt, and I also study some aspects of Combat Hapkido and Modern Arnis. I enjoy assisting in teaching Taekwondo to junior belts at The Martial Arts Center in College Station, TX, where I am a member of their instructor corps (blue tops). Amanda is a free lance illustrator and stay at home mom. We have two boys, Saunders Aloysius Arnold (born in 1998) and Zane Carl Arnold (born in 2001) who are also active in Taekwondo.

**References:**

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