

## Susan S. Barton, Ph.D.

Professor and Extension Specialist IV, Landscape Horticulture  
Department of Plant & Soil Sciences  
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### I. EDUCATION:

- Ph.D. Plant Protection, University of Delaware, Spring 2005.  
Dissertation: Enhancing Delaware Highways: A Natural Vegetation Project.
- M.S. Ornamental Horticulture, North Carolina State University, GPA - 4.0, July 1984. Thesis:  
Influence of Temperature, Stratification, Light and Media on Germination of Sourwood  
(*Oxydendrum arboreum* (L) DC.)
- B.S. Plant Science, University of Delaware, Summa Cum Laude, May 1981

### II. PROFESSIONAL EXPERIENCE:

Extension Specialist, Professor, Landscape Horticulture, Department of Plant & Soil Sciences, June 1985 to present.

Department Chairperson, Horticulture Business Technology, Fayetteville Technical Institute, Fayetteville, NC, August 1984- June 1985

Teaching Assistant, Department of Horticulture, North Carolina State University, Raleigh, NC, August 1982 – August 1984

Landscape Designer, Gordon Eadie Associates, Phoenixville, PA, March 1982 – July 1982

Garden Center Co-manager, Village Gardens, Paoli, PA, 1979-1982

Teaching Assistant, University of Delaware, Newark, DE, 1979-1981

### III. AWARDS and HONORS

Delaware Cooperative Extension Director's Leadership Award. 2016.

Delaware Cooperative Extension Certificate of Achievement, Integration of Extension and Research Award, Master Gardener Advanced Training Team. 2008.

Ratledge Public Service Award. 2007

Delaware Cooperative Extension Certificate of Achievement, Outstanding Programming Award, Composting Education Programs. 2007.

Epsilon Sigma Phi Outstanding Program Accomplishment Award. Plants for a Livable Delaware, 2006

Epsilon Sigma Phi Regional Team Recognition Award. Ornamentals Short Courses and Ornamentals Hotline. 2006

ASHS Outstanding Extension Publication Award, Establishing and Operating a Garden Center, Outstanding Bulletin Award, 2002.

Mary Marsh Award, Delaware Center for Horticulture. Horticultural Excellence and Service to the Community, 1998.

American Association of Nurserymen. Extension Award. 1995

Delaware Association of Nurserymen. Award of Merit. 1994

Professional Merit Award. University of Delaware. 1990.

Outstanding Program Accomplishment Award. Epsilon Sigma Phi Alpha Theta Chapter. March 1987.

Young Botanists Recognition Award. University of Delaware. 1981.

College of Agricultural Science's Scholar. University of Delaware. 1980, 1981.

Delaware-Maryland Plant Food Association Scholarship. University of Delaware. 1980.

Warren C. Newton Teacher's Assistantship. University of Delaware. 1980.

### IV. SCHOLARSHIP

Google Scholar: 322 total citations, h-index = 8 as of March 16, 2018  
*Scholarly publications (43), including books and book chapters for career (1986-2018)*  
\* denotes graduate student or undergraduate student

1. Townsend, J.B\*. and S. Barton. 2018. The impact of ancient tree form on modern landscape practices. *Urban Forestry and Urban Greening*. Submitted.
2. Torres, A., S.S. Barton and B.K. Behe. 2017. Business and marketing practices of U.S. landscape firms. *HortTechnology*, 27 (6):884-892.
3. Arnold, M.A. and M.H. Meyer, W.T. Rhodus and S.S. Barton. 2017. HortIM™. An online peer review system for horticultural teaching and extension instructional materials. *HortTechnology*, 27(2):138-143.
4. Barton, E\*, E. Barton\*, S. Barton, C. Boyer, J. Brosnan, P. Hill, J. Hoyle, J. Reid, and J. Seger. 2017. Using technology to enhance extension education and outreach. *HortTechnology*, 27(2):177-186.
5. Barton, S. and B. Behe. 2017. Retail promotion and advertising in the green industry: An overview and exploration of the use of digital advertising. *HortTechnology* 27(1):99-107.
6. Barton, E\*, S. Barton and T. Ilvento. 2016. Evaluating the implementation of video web conferencing in Delaware Master Gardener training. *HortTechnology* 26 (5): 669-676.
7. Duke J., S. Barton, J. Bruck, D. Tallamy, S. Inamdar, and M. Murray\*. 2016. Public Preferences for Ecosystem Services on Exurban Landscapes: A Case Study from the Mid-Atlantic, USA, *Heliyon* <http://authors.elsevier.com/sd/article/S240584401630322X>
8. Bachman, M\*, S. Inamdar, S. Barton, J. Duke, D. Tallamy, and J. Bruck. 2016. A comparative assessment of runoff nitrogen from turf, forest, meadow, and mixed land use watersheds. *Journal of American Water Resources Association* 52(2):397-408.
9. Townsend, J. B. T.W. Ilvento and S.S. Barton. 2016. Exploring the Relationship Between Trees and Human Stress in the Urban Environment. *Arboriculture and Urban Forestry*, Vol. 42, Issue 3, pp. 146-159. May 2016
10. Barton, S.S. and C.S. Contijo Garcia\*. 2015. Roadside Landscapes – a potential environmental resource. *Ornamental Horticulture, Sociedade Brasileira de Floricultura e Plantas Ornamentais*. V21, No. 3 November, 2015 p. 272-290. <http://dx.doi.org/10.14295/oh.v21i3.844>
11. Palma, M.A., C.R. Hall, B. Campbell, H. Khachatryan, B. Behe and S. Barton. 2012. Measuring the Effects of Firm Promotion Expenditures on Green Industry Sales. *J. Environ. Hort.* 30(2):83-88. June 2012.
12. Saksa K\*, T. Ilvento and S. Barton. 2012. Interpretation of Sustainable Landscapes Affects Student Perception of Sustainable Landscape Features. *HortTechnology* 22(3):402-409. June 2012.
13. Lucey, A.K\* and S.S. Barton. 2011. Influencing Public Perception of Sustainable Roadside Vegetation Management Strategies. *Journal of Environmental Horticulture* 29(3):119-124.
14. Lucey, A.K\*. and S.S. Barton. Public Perception and Sustainable Roadside Vegetation Management Strategies, Transportation Research Board, 90<sup>th</sup> Annual Meeting, January 23-27, 2011.
15. Saksa K\*. and S. Barton. 2011. Student Perception of Campus Sustainable Landscapes: University of Delaware Laird Campus Case Study. Abstracts of presentations from annual conference of the ASHS, September 25-28, 2011. *HortScience* 46(9), September 2011
16. Barton, S.S., R.S. Pineo\* and L.J. Carter\*. 2010. Implementing Sustainable Practices on Campus through Student Independent Study. *HortTechnology*, June 2010 20(3):495-498.
17. H. M. Mathers, A. Acuna, D. Long, B. K. Behe, A. W. Hodges, J. J. Haydu, U. K. Schuch, S. S. Barton, J. H. Dennis, B. K. Maynard, C. R. Hall, R. McNeil, T. Archer. 2010. Nursery Worker Turnover and Language Proficiency. *HortScience* 45 (1):71-77.

## V. GRANTS

### Grants (1986-2017)

	Internal UD	External
Principal Investigator	\$21,320	\$789,934
Co-PI	\$5,198	\$1,465,869
Totals	\$26,518	\$2,255,803
Career Total	\$2,282,321	

### Recent examples

UD Faculty Career Services Award. Landscape Architecture Symposium. (\$1500), 2017.

Delaware Department of Transportation (\$51,406) FY17 and (\$52,388) FY18 Establishment of Desirable Vegetation on Medians and Roadsides, 2016-2018.

Delaware Department of Transportation (\$36,945) FY17 Sustainable Roadside Vegetation Management Studies, 2016-1017.

Delaware Department of Transportation (\$33,390) FY16 Establishment of Desirable Vegetation on Medians and Roadsides, 2015-2016.

Delaware Cooperative Extension (\$5198) Comparing Face-to-Face and Remote Delivery of Instruction for Delaware Master Gardener Training, 2015.

Delaware Department of Transportation (\$31,624) FY15 Sustainable Roadside Vegetation Management Studies, 2014-2015.

Delaware Department of Transportation (\$37,206) Guardrail Project Supplement, 2013-2014.

Delaware Department of Transportation (\$75, 175). Livable Lawns State Fair Program. 2012-2013

UD Sustainability Fund (\$3000) Re-vegetating a Disturbed Landscape: Continued Study of Planting and Plant Removal for Greening the University of Delaware Science, Technology, and Advanced Research (STAR) Campus, 2013

NIFA National Integrated Water Quality Program (NIWQP) Award (\$595,000), Water quality and ecosystem services from landscape best management practices that enhance vegetation in urbanizing watersheds, 2011 (with Imandar, Tallamy, Bruck, Duke)

UD Sustainability Fund (\$3000) Re-vegetating a Disturbed Landscape: Continued Study of Planting and Plant Removal for Greening the University of Delaware Science, Technology, and Advanced Research (STAR) Campus, 2012

Delaware Department of Transportation (\$34,412) Guardrail Project Supplement, 2012-2013.

Delaware Department of Transportation (\$27,519) Guardrail Project Supplement, 2010-2011.

Dow Chemical (\$5000) Memorandum of Understanding for Sustainable Landscape Design. 2010.

Anchorage Canal Project (\$3000). Planting Recommendations for the implementation of stormwater management BMPs. 2010.

AMSUSDA (\$39,950). Native Plants – Increasing Demand and Production Capacities in Delaware. 2010-2011.

## **VI. OTHER PUBLICATIONS (115 articles; 46 fact sheets; 4 websites; recent examples)**

Barton, S. 2014. The Extension Information Dilemma. ASHS Newsletter, Vol 30, No. 10, October 2014.

Barton, S. 2013. *Guards Lose Cover*. Roads and Bridges, April 2013.

Barton, S. 2012. *Horticulture Best Practices in a Time of Climate Change*. The Public Garden, Vol. 27, Summer/Fall 2012, pgs 34-36.

Barton, S. 2012. *Livable Lawns: Managing a Healthy Lawn*. 5<sup>th</sup> in Livable Delaware series.  
[http://s3.amazonaws.com/udextension/lawngarden/files/2012/10/D32536\\_LivableLawns\\_FINAL\\_web.pdf](http://s3.amazonaws.com/udextension/lawngarden/files/2012/10/D32536_LivableLawns_FINAL_web.pdf)

Barton, S. Sue Barton Blog. 2014. Landscape and Horticulture Blog. <http://sites.udel.edu/suebarton/>

Barton, S. and J. Bruck. 2012. Livable Ecosystems: A model for suburbia. <http://sites.udel.edu/sld/>

Barton, S. 2012. *Weed Control in Turf*. Extension fact sheet. <http://extension.udel.edu/factsheets/weed-control-in-turf/>

Barton, S. 2012. *Turfgrass Selections for Delaware*. Extension fact sheet.  
<http://extension.udel.edu/factsheets/turfgrass-selections-for-delaware/>

Barton, S. 2012. *Pruning Woody Plants*. Extension fact sheet.  
<http://extension.udel.edu/factsheets/pruning-woody-plants/>

## **VII. PRESENTATIONS**

### *Professional meetings*

Author or coauthor of 22 papers at professional society meetings (e.g. American Society of Horticultural Science, Transportation Research Board, and Southern Nurserymen's Association Research Conference) since 1984.

### *Nursery and landscape industry presentations at state, regional and national conferences*

Invited to speak of a variety of landscape and garden center management topics since 1985. Out-of-state (51) In-state (138)