

TOPIC: ROOT & SOIL MANAGEMENT

TREE Fund Awards and Webinars as of 2/2018*



<u>Year</u>	<u>Awardee</u>	<u>Organization</u>	<u>Project Title</u>
2017	Dr. Nina Bassuk	Cornell University	Enhancing Tree Transplant Success through the Manipulation of Root Hydraulic Conductance
2017	Dr. Susan Day	Virginia Tech	WEBINAR: Soil Profile Rebuilding: Rehabilitating Compacted Soils
			Urban Forests as Stormwater Systems—The role of canopy structure and ground cover in stormwater mitigation
2016	Dr. Susan Day	Virginia Tech	
2016	Dr. Justin Morgenroth	University of Canterbury	Measuring tree response to increasing root removal intensities
			Investigating Street Tree Decline and Mortality in Commercial Urban Spaces
			Revitalized with Structural Soil Cell Technology to Improve Planting and Maintenance Practices
2016	Dr. Camilo Ordonez	Ryerson University	Innovative Practices to Enhance Soil Quality for Vacant Urban Lot Afforestation
2016	Dr. Mitchell Pavao-Zuckerman	University of Maryland	
2016	Dr. Glynn Percival	Bartlett Tree Research Laboratory	Can Soil Amendments Reduce Disease Severity in Trees
			WEBINAR: Soil Compaction and Urban Trees: Strategies for Gaining Ground
2016	Dr. Bryant Scharenbroch	University of Wisconsin - Stevens Point	
2016	Dr. Bryant Scharenbroch	University of Wisconsin - Stevens Point	A Soil Management Toolbox for Urban Trees
			WEBINAR: Strategies for Successful Urban Tree Growth in Wet and Dry Sites
2015	Dr. Nina Bassuk	Cornell University	Effect of root-stimulating treatments on physiologic and growth performances of Platanus x acerifolia and Ulmus pumila seedlings
2014	Dr. Manuela Baietto/Daniele Bassi	University of Milan	
2014	Dr. Greg Dahle	West Virginia University	Characterizing strain and load transfer in the root flare
			Long term assessment of the effects of impervious, permeable and porous pavements on the underlying soil and on established trees
2014	Dr. Alessio Fini	DiSPAA - Università di Firenze	
2014	Dr. Bryant Scharenbroch	The Morton Arboretum	Rapid remediation of urban soil for trees
			Management of urban trees to meet canopy cover goals: Falls Church Residential Landscape Plan Comparison
2013	Dr. David Chojnacky	Virginia Tech	
		Virginia Polytechnic Institute and State University	Improving stormwater capture of urban forests through soil rehabilitation
			Effects of different sidewalk designs on soil characteristics and the growth & physiology of shade tree species
2013	Dr. Alessio Fini	University of Florence	
2013	Angela Hewitt	The Morton Arboretum	Establishment and stability of large trees transplanted bare root

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2013	Dr. Jordan Marshall	Indiana University-Purdue University Fort Wayne	Development and assessment of municipal ash tree management decision models
2013	Dr. Mitchell Pavao-Zuckerman	University of Arizona	Characterizing urban forest functioning and ecosystem services with digital imaging
2012	Dr. Sougata Bardhan	University of Missouri, Columbia	Impact of storm water runoff on tree roots, physiology and rhizosphere microbial diversity in urban forests
2012	Dr. Yvonne Boldt	Providence Academy	Maple tree soil applications research project
2011	Dr. Alessio Fini	University of Florence	Effects of root severance by excavation on growth, physiology and uprooting resistance of two urban tree species
2011	Dr. Edward Gilman	University of Florida	Effect of Container Size on tree establishment and anchorage
2010	Dr. Nina Bassuk	Cornell University	Ground Penetrating Radar
2010	Dr. Susan Day	Virginia Tech	Strategies to resolve conflicts between trees and new LID stormwater best management practices
2010	Dr. Stephen Mitchell	University of British Columbia	Effects of root system configuration and partial excavation on tree stability
2010	Dr. Bryant Scharenbroch	The Morton Arboretum	Biochar and its potential as an arboricultural amendment
2010	Dr. J. Ryan Stewart	University of Illinois	Consequences and impacts of wire basket retention and removal on establishment and root morphology of a shallow-rooted and a deep-rooted tree species
2010	Dr. Gary Watson	The Morton Arboretum	Evaluating damage resulting from volcano mulching
2009	Dr. Edward Gilman	University of Florida	Effects of Container Types and Root Pruning on Root Quality and tree Stability
2009	Dr. Laura G. Jull	University of Wisconsin - Madison	Controlled Environment Evaluation of Aerated Compost Tea
2009	Dr. Les. P. Werner	University of Wisconsin - Stevens Point	Changes in the Soil Microbial Communities and Litter Decomposition Along a Temporal Urbanization Gradient
2008	Dr. Susan Day	Virginia Tech	Can Improved Urban Soil Management Result in Increased Soil Carbon Storage and Greater Tree Growth?
2008	Dr. Edward Gilman	University of Florida	Effects of Root Pruning Newly Planted and Large Trees on Decay, Root regeneration and Stability
2008	Dr. Roger Harris	Virginia Tech	Best Management for Deeply Planted Trees with Adventitious Roots

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2008	Dustin Meador	University of Florida	<u>Impact of Root Severance and Root Regeneration Potential of Large Diameter, Mature Woody Roots</u>
2008	Dr. Thayne Montague	Texas Tech	<u>Impact of Post-Establishment Applied Organic Mulch on Gas Exchange and Growth of Landscape Tree Species</u>
2008	Dr. Justin Morgenroth	New Zealand School of Forestry	<u>Investigating Physical Soil Conditions and Tree Response to Permeable Paving</u>
2008	Dr. Bryant Scharenbroch	The Morton Arboretum	<u>The Impacts of Aerated Compost Teas on Trees, Soils and the Environment</u>
2008	Dr. Bryant Scharenbroch	The Morton Arboretum	<u>Soil Quality Index for Arboriculture</u>
2007	Dr. Michael Arnold	Texas A&M University	<u>Assessing Field Level Cold Tolerance in Improved Genotypes of Taxodium Distichum Tolerant of Alkaline Soils and Drought</u>
2007	Dr. Michael Arnold	Texas A&M University	<u>Soil, Irrigation, and Production Factors Influencing Establishment on Container-Grown Trees at Various Planting Depths</u>
2007	Dr. Nina Bassuk	Cornell University	<u>Strategies and Techniques to Remediate Compacted, Poorly Draining Soils</u>
2007	Dr. Marcus Bellett-Travers	Nottingham Trent University	<u>The Comparative Cost-Benefit of Compound Greenwaste as a Mulch and Soil Amendment for the Improved Establishment Success of Municipal Tree Planting</u>
2007	Dr. Jeffrey Gillman	University of Minnesota	<u>The Effects of Wounding and Deep Mulching on Tree Growth and Internal Discoloration and Decay in Acer Rubrum "Northwoods"</u>
2007	Thomas Green	The Morton Arboretum	<u>Ash Root Collar Root Regeneration and Uptake of Merit Insecticide</u>
2007	Dr. Bryant Scharenbroch	The Morton Arboretum	<u>Towards Improving Soil Biology and Organic Matter for Urban Tree Health</u>
2006	Dr. Bonnie Appleton	Virginia Tech	<u>Refining Techniques for root Ball Soil and Substrate Removal at Planting</u>
2006	Dr. Perluigi Bonello	The Ohio State University	<u>Effects of Soil Type, Cultural Practices, and Mycorrhizal Inoculation on Native Mycorrhizal, Carbon Allocation and Stress Tolerance in Paper Birch</u>
2006	Dr. Susan Day	Virginia Tech	<u>Rehabilitation of Urban Soils: A Critical First Step for Long-Term Soil Productivity and Canopy Cover in Urban Forests</u>
2006	Dr. Eric Wiseman	Virginia Tech	<u>Earthworm Ecology and Applied Technology in Landscape Tree Soils</u>

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2005	Dr. Bonnie Appleton	Virginia Tech	Removing Soil and Substrate from Root Balls at Planting
2005	Dr. Nina Bassuk	Cornell University	Improving Tree Root Growth and Reducing Urban Runoff by Combining the Use of porous Pavements and Structural Soils
2005	Dr. Nina Bassuk	Cornell University	Root Hardiness of Trees and Shrubs Suitable for Container Planting in Urban Landscapes
2005	Dr. J. Roger Harris	Virginia Tech	Can Arborists Create a Sustainable Rhizosphere?
2005	Dr. Jennifer Juzwik	University of Minnesota	Implications of the Distribution of Propiconazole in Red Oaks on the Management of Below Ground Spread of Ceratocystis Fagacearum
2005	Dr. Kevin Kosola	University of Wisconsin - Madison	Air Excavation Sampling Effects on Fine Root Integrity
2005	Dr. Glynn Percival	Bartlett Tree Co./U.K.	Systemic Induced Resistance to Control Root and Foliar Diseases of Urban Trees
2005	Dr. Guido Schnabel	Clemson University	Gastrodiani: A Possible New Tool to Manage Soil Bourne Diseases of Woody Plants
2005	Dr. T. Davis Sydnor	The Ohio State University	The Occurrence, Impact and Correction of Excessive Soil Over the Root System of Container-Grown Trees
2005	Dr. Christina Wells	Clemson University	Long Term Impacts of Deep Planting on Yoshino Cherry (Prunus x yeodensis) and Red Maple (Acer Rubrum)
2004	Dr. Susan Day	Virginia Tech	Planting Deep: Evaluating Long-Term Effects on Trees and Methods of Diagnosis and Treatment
2004	Dr. J. Roger Harris	Virginia Tech	Long-Term Effects of Container Production
2004	Peter Lumsden	University of Central Lancashire	Use of Soil Injections of Carbohydrates to Improve Root Development and Aid Transplanting Success of Woody Species
2004	Dr. Bruce Roberts	Ohio Wesleyan University	Use of Compost-Amended Soils and Commercial Substrates to Enhance Transplant Success in Urban Plantings
2004	Dr. T. Davis Sydnor	The Ohio State University	Evaluating Root Crown Excavation as a Treatment to increase the Vigor and Survivability of Landscape Trees with Excessive Soil on the First Order Lateral Roots
2004	Dr. Eric Wiseman	Clemson University	Soil Inoculum Potential and Fine Root VAM Colonization in Acer Rubrum from Forested and Developed Ecosystems
2003	Dr. Bonnie Appleton	Virginia Tech University	Tree Support Systems: Trunk Staking vs. Foot Ball Anchoring

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2003	Dr. Michael Arnold	Texas A&M University	Interactions Among Planting Depths and Mulch Applications on Establishment of Hypoxia Tolerant and Intolerant Trees
2003	Jeff Gillman	University of Minnesota	Effects of Planting Depth on Tree Growth and Stem Girdling Roots
2001	Dr. Bonnie Appleton	Virginia Tech University	Dealing with Wire Baskets at Transplanting
2001	Dr. Nina Bassuk	Cornell University	Rating Trees for Their Tolerance of Soil Flooding in Amended and Compacted Sites
2001	Dr. Linda Chalker-Scott	University of Washington	Treating Containerized Trees as Bare-Root Material: A Comparison of Tree Installation Techniques
2001	John Lloyd	University of Idaho	Nitrogen Availability in Landscape Soils: Developing Diagnostic Tools for Arborists

**Note: Website archives start in 2004.*