

## Bios

**Michele Adams** is a water resources engineer and founder of Meliora Design. Her work focuses on sustainability, green infrastructure, and engineering designs informed by ecology. She co-authored the *Pennsylvania Stormwater Manual* as well as the *NYC High Performance Landscape Guidelines*, and served for six years on the USGBC Sustainable Sites Committee, including developing LEED V4 criteria. Recent projects include the Philadelphia Children's Zoo, Shoemaker Plaza at the University of Pennsylvania, the Stroud Water Research Environmental Education Center, and the meadow expansion at Longwood Gardens.

**Tavis Dockwiler**, RLA, is the guiding influence for Viridian Landscape Studio. Tavis recognizes that understanding ecological systems is integral to the basic framework of society. She works to make beautiful, healing, enduring places that allow people to engage with the environment – to play, learn, and relax. Tavis brings her skills in policy and communication to efforts seeking to overcome institutional and policy barriers to outdoor education and high-performing landscapes. With Michele Adams, she was one of the authors of the *NYC High Performance Landscape Guidelines*.

**Curtis Helm** is Project Manager for the City of Philadelphia, Parks & Recreation, Department of Urban Forestry and Ecosystem Management, and has worked for the City since 2010. Current projects include tree risk assessment and hazard removal, forest restoration/replanting, green stormwater infrastructure planning, and EAB management and suppression. Prior to working for the City, he worked for Amy S. Green Environmental Consultants, Inc. in Flemington NJ, with a focus on ecological restoration, wetland mitigation, forest management, and environmental permitting.

**Jason Henning** is a Research Urban Forester with the Davey Institute in a collaborative position with the USDA Forest Service, Philadelphia Urban Field Station. Jason's responsibilities include engaging in research efforts, supporting communities in the application of the i-Tree suite of tools, and communicating the science of urban forestry to diverse audiences. Jason's background includes a Ph.D. in Forestry and six years of teaching and research in quantitative forestry at the university level. He has been the project manager for multiple forest resource inventories in urban and natural settings.

**Mark Highland** focused his M.S. degree studies in the Longwood Graduate Program on compost and potting soil. After the Longwood Graduate Program, Mark started The Organic Mechanic Soil Company, LLC in 2006. Mark has served as a consultant for the EPA and Institute for Local Self-Reliance, and recently received the Young Professional Award from the Perennial Plant Association.

**Barry Jeffries** is a senior design planner at the Montgomery County Planning Commission with over 17 years of experience in site design, planning, landscape architecture, and urban forestry. He led the project team that produced the *Sustainable Green Parking Lot Guidebook*, an award-winning publication that explores the issues associated with traditional parking lots and provides design strategies and solutions for creating green parking lots. Mr. Jeffries received an MLA from the University of Georgia, Athens and completed a year-long internship in Urban Forestry at the Morris Arboretum.

**Ken LeRoy** is an ISA certified arborist dedicated to integrating trees and plants into urban and suburban environments. Ken has cared for many trees, some have been trees of age on historic sites with stories to tell. Ken LeRoy was raised in "the concrete jungle" of North Philadelphia's Allegheny West neighborhood where he learned to identify trees in local parks. He pursued his interest at Temple University's, School of Horticulture and is currently an arborist representative with John B. Ward & Co. Arborists. *Arboretum Philadelphia* is a community Facebook page that Ken LeRoy founded where one can photograph, document, and post impressive trees and shrubs in the Philadelphia area.

**Dr. William A. Powell** is Professor and Director of the Council on Biotechnology in Forestry and Co-Director of the American Chestnut Research & Restoration Project. He received his Ph.D. at Utah State University. As a faculty member at the State University of New York's College of Environmental Science and Forestry at Syracuse, New York, he collaborated with his colleague, Dr. Charles Maynard, researching methods to develop a blight-resistant American chestnut (*Castanea dentata*) tree. His most significant accomplishment, with Dr. Maynard, is the enhancement of blight resistance in American chestnut by his research team and collaborators.

**Jay Townsend** grew up in Wawa, Pennsylvania and attended Kenyon College in Ohio. After graduation, he worked as a manager for the Davey Tree Expert Company in the San Francisco Bay Area. Jay graduated from the Longwood Graduate Program in public horticulture and returned to the Davey Tree Expert Company to open the Brandywine office, which he managed for 25 years. Upon retirement, he returned to the University of Delaware to earn a doctoral degree researching the psychological impact of tree canopy on city dwellers.

## Sponsors

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## Tree Canopy Conference: Preserving Trees in Our Communities

Thursday, October 13, 2016

Location: Haverford College, Haverford, PA, Stokes Hall Auditorium



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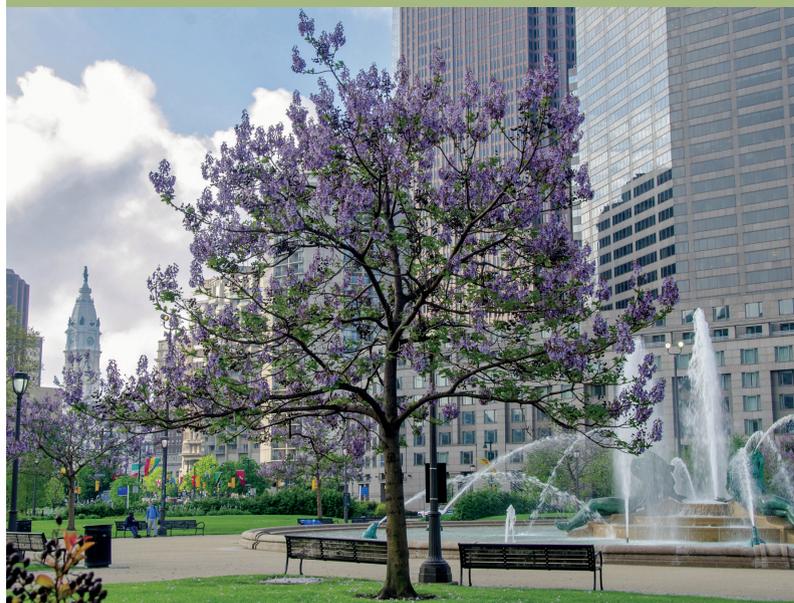
Location: Haverford College  
Haverford, PA  
Stokes Hall Auditorium

# Why is Tree Canopy So Important?

A healthy tree canopy provides important ecosystem services including air pollution removal, storm water runoff reduction, and improved energy conservation.

Abundant tree canopy provides habitat for wildlife, and also has a positive impact on mental health and well-being, community cohesion, and economic stimuli.

In this conference, we will look at tree canopy preservation and reduction both nationally and locally, and consider some of the greatest threats communities are facing as they try to preserve tree canopy cover.



<p><b>9:00 am</b>     <b>Welcome</b> <i>Bob Wells, Associate Director of Arboriculture Outreach, Morris Arboretum, and Bill Astifan, Director, Haverford College Arboretum</i></p> <p><b>9:15 am</b>     <b>City Trees Are Stress Relievers</b> <i>Jay Townsend</i> This talk examines research that explores the relationship between green infrastructure in the built environment and human well-being by focusing on the relationship between the quantity of trees on a city block and the level of community stress.</p> <p><b>10:00 am</b>     <b>Break</b></p> <p><b>10:15 am</b>     <b>i-Tree: Converting Tree Benefits Data into Sustainable Tree Canopy Management</b> <i>Dr. Jason Henning</i> I-Tree Tools (<a href="http://www.itreetools.org">www.itreetools.org</a>) have been helping communities assess the benefits and value of their forest resources since 2006. The release of the new i-Tree Landscape tool (<a href="http://landscape.itreetools.org">landscape.itreetools.org</a>), supports mapping and prioritization of tree canopy, while an update to the flagship i-Tree Eco software has increased usability with new features like flexible data requirements and forecasting.</p> <p><b>11:00 am</b>     <b>Transforming Our Parking Lots</b> <i>Barry Jeffries</i> Parking lots play a major role in how our communities look and the quality of the environment. They can also contribute to flooding, cause polluted stormwater runoff, and create urban heat islands. These impacts can be reduced using practices that provide greater greening, and by including naturalized drainage strategies. Several local and regional examples of green parking lots illustrating these innovations will be discussed.</p> <p><b>11:30 am</b>     <b>Soil Amendments for the Urban Landscape</b> <i>Mark Highland</i> Soil remediation on existing landscapes with large trees can be daunting. This session explores soil amendments, such as Biochar, used on urban landscapes that provide a positive impact in the root zone.</p>	<p><b>12:00 noon</b>     <b>Questions</b></p> <p><b>12:20 pm</b>     <b>Lunch</b></p> <p><b>1:30 pm</b>     <b>Philadelphia's Big Trees</b> <i>Ken LeRoy</i> In our community tree canopy, one can discover trees of age that are part of our cultural heritage and remnants from the native forest. Many of these 'Heritage Trees' grow in protected historical sites, parks, and college campuses. Ken LeRoy has been tracking and photographing these trees in Philadelphia and its suburbs over the last few decades and will share their stories.</p> <p><b>2:00 pm</b>     <b>Sustainable Stormwater Techniques: Reconnecting Soils, Water &amp; Vegetation</b> <i>Michele Adams and Tavis Dockwiler</i> Stormwater runoff is the leading cause of damage to streams and waterways. Recent approaches such as "green infrastructure" or "low impact development" strive to return rainfall to soil and vegetation, recharging groundwater and restoring evapotranspiration. Case studies of sustainable approaches to rainwater management will be shared.</p> <p><b>2:45 pm</b>     <b>Break</b></p> <p><b>3:00 pm</b>     <b>How to Produce a Blight Resistant American Chestnut</b> <i>Dr. William Powell</i> The American chestnut and chestnut blight is the classic example of what happens when our forests succumb to exotic pests and pathogens. Because of its environmental, economic, and social importance, many tools have been brought to bear on the chestnut blight problem. Dr. Powell will discuss genetic engineering and how it is being used to produce a blight-resistant American chestnut.</p> <p><b>4:00 pm</b>     <b>Fairmount Park's Emerald Ash Borer Control Program</b> <i>Curtis Helm</i> Curtis will review his experience in treating over 1,200 ash trees in Fairmount Park. He will discuss costs, the time involved, challenges he encountered, and plans for future management.</p> <p><b>4:45 pm</b>     <b>Questions</b></p> <p><b>5:00 pm</b>     <b>Adjourn and Reception</b></p>
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## Registration Form

### Tree Canopy Conference: *Preserving Trees in Our Communities*

Thursday, October 13, 2016

#### Fee Per Person

**\$125** Registration includes lunch and break refreshments

#### To Register

**Online:** Visit <https://online.morrisarboretum.org/canopy>

**Phone:** Have your credit card ready. Call the Education Dept. at (215) 247-5777, ext. 125

**Mail:** Send this form along with check payable to "Morris Arboretum" to: Education Department  
Morris Arboretum  
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Philadelphia, PA 19118-2697

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A confirmation e-mail with directions to Haverford College's Stokes Hall Auditorium will be sent to you upon registration. Directions will also be available on the Morris Arboretum website.

This conference carries CEUs for ISA certified arborists and PA landscape architects. It also carries pesticide update credits from the PA Dept. of Agriculture.

Cancellations received by October 6 will be fully refunded less a \$10 processing fee.